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RAPPORT DE COMPARAISON ÉNERGÉTIQUE

Sainte-Marie-Madeleine, 3 mars 2026

Bâtiments	3200 rue Saint-Charles, Saint-Hyacinthe, Qc
Client	Les Jardins de la Yamaska
Ingénieurs-conseils et rédacteur	Le groupe CMI experts-conseils inc. 540 Jarry Ste-Marie-Madeleine, (Québec) J0H 1S0
Architecte	Artesa Architectes Concepteurs
Dossier	25845

1 OBJECTIF

- 1.1 Ce rapport énonce les différences énergétiques des bâtiments s'ils étaient conçus selon les normes minimums permises par le code du bâtiment versus une conception optimisant l'efficacité énergétique des composantes architecturales et des systèmes électromécaniques afin de se conformer au programme APH-Select de la SCHL. Dans ce cas, le client cherche à se conformer aux demandes de l'APH-Select de Niveau 3 pour une construction neuve.

2 EXPLICATIF

- 2.1 Les simulations utilisent les données météorologiques de l'ASHRAE (fichier de données venant de QC – Saint-Hubert– Zone 6A) selon l'emplacement le plus près du projet et une température extérieure hivernale de -20 °F même si les données météorologiques de la ville en question sont plus élevées. Le but est d'avoir un comparatif et une méthodologie répétable d'une simulation à l'autre et d'assurer que le design mécanique permet un confort acceptable des locataires plus de 90% du temps tel que demandé par l'ASHRAE et le CNÉB.
- 2.2 La section **DONNÉES** commence par la description des bâtiments. Ensuite, il est question de détailler les résistances thermiques des composantes architecturales et les spécifications des systèmes électromécaniques des bâtiments conçus selon les normes minimums permises par le code du bâtiment. Ce sont les données utilisées dans la Simulation 1, dite de Référence.

Le même exercice est fait avec les résistances thermiques des composantes architecturales et les spécifications électromécaniques une fois qu'elles ont été optimisées. Ceci constitue la Simulation 2, dite de Concept.

2.3 La simulation de concept sert donc à optimiser les résistances thermiques des composantes architecturales ainsi que les systèmes électromécaniques afin d'atteindre l'objectif de 40% d'efficacité énergétique désiré par le client.

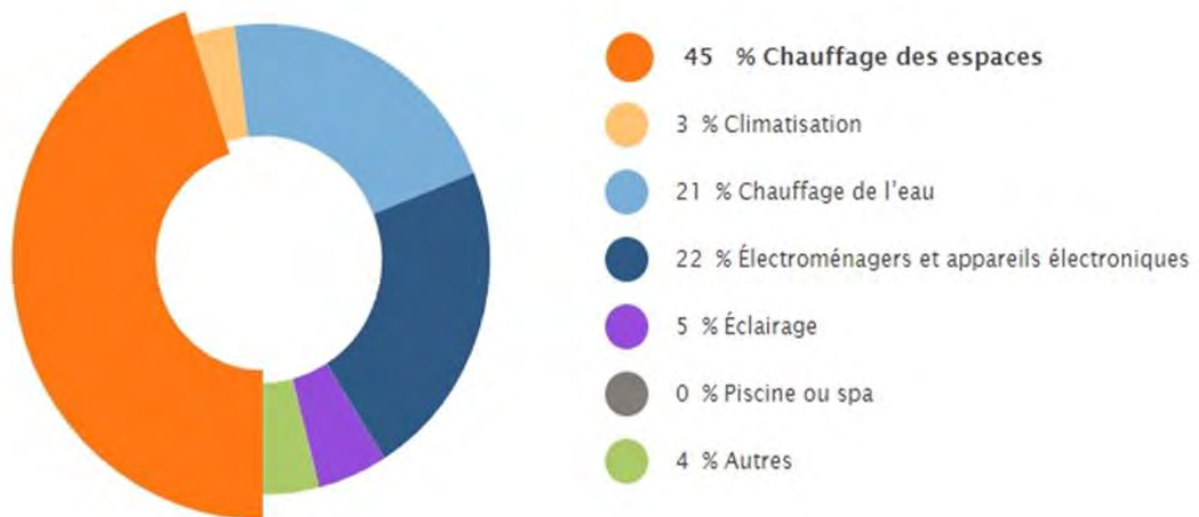
2.4 Dans la section **CONSOMMATION ET COÛTS**, il est indiqué le résultat des simulations au niveau de la consommation électrique et du coût monétaire totale annuelle pour le chauffage, la climatisation et le conditionnement de l'air.

L'économie observé dans les tableaux de cette section est attribuée directement au chauffage, à la climatisation et au conditionnement de l'air puisque le logiciel utilisé (Carrier HAP) ne prend pas en considération d'autre élément.

2.5 Dans la section **CALCULS** sont détaillées les calculations non pris en charge par le logiciel Carrier HAP. Ces calculs sont nécessaires afin d'obtenir les résultats qui démontrent une conformation aux demandes du programme APH-Select.

Il est important de noter que plusieurs des calculs sont faits sur une base de 73%, car la part d'électricité qu'utilisent les électroménagers, les appareils électroniques et les autres charges sont sous le contrôle des occupants et n'ont pas de lien avec l'efficacité énergétique du bâtiment. Voici les pourcentages moyens de consommation électrique selon Hydro-Québec :

Figure 1 : Répartition de la consommation moyenne d'électricité par usage d'une habitation dans un multiplex ou un immeuble à logements multiple avec climatisation selon Hydro-Québec



En retirant la part qu'occupe les électroménagers, les appareils électroniques et les autres charges, un pourcentage de 73% est obtenu.

- 2.6 Dans la section **ANALYSES ET RÉSULTATS FINAUX** se retrouvent un résumé des données et des résultats importants qui montre la conformité des bâtiments avec les critères du programme APH-Select.
- 2.7 Dans la section **CONCLUSION** se retrouve la déclaration de conformité. Il y a aussi les résistances thermiques finales des composantes architecturales et les spécifications finales des systèmes électromécaniques. Finalement, il y a la signature de l'ingénieur en charge.
- 2.8 Abréviations :
N/A – Non applicable
N/D – Non disponible

3 DONNÉES

- 3.1 L'immeuble est une construction neuve qui contient quatre niveaux. Le rez-de-chaussée contient vingt-neuf logements, une salle de billard, un salon des résidents, une salle commune, un atelier et des bureaux. Le deuxième étage contient trente-sept logements et une salle commune, le troisième et quatrième étage contiennent chacun trente-huit logements et une salle commune. Pour un total de cent quarante-deux logements.

Les couloirs et SAS sont des zones desservies par une unité d'apport d'air frais. Ce dernier sera en fonction en tout temps et pressurisera ces zones. Certaines de ces zones seront aussi climatisées.

Les salles mécaniques seront ventilées sur détection de température élevée. Les hausses de température dans les salles mécaniques sont occasionnelles et ne sont généralement pas de longue durée. Il est donc logique d'estimer que l'impact de cette ventilation occasionnel soit négligeable.

Les zones communes accessibles aux occupants, comme les rangements, les casiers et les conciergeries seront ventilées sur détection de présence. Ces pièces servent à transiter brièvement. La présence des occupants à ces endroits sera donc courte. Pour cette raison, il est donc logique d'estimer que l'impact de cette ventilation occasionnel soit négligeable.

Le bâtiment est cent pourcent électrique. Il y a des thermopompes et des plinthes électriques pour chauffer et climatiser les logements. Il y a aussi des échangeurs d'air pour conditionner l'air frais entrant et des chauffe-eaux électriques pour chauffer l'eau.

Tableau 1 : Résistances thermiques

Bâtiment	Nbr de bâtiments identiques où ces données s'appliquent	Simulation	Composante	Résistance Thermique (R)
Jardins de la Yamaska St-Hyacinthe	1	1 (Référence)	Murs extérieurs	24.5
			Murs fondation	17
			Toit	41
			Dalle	10
		2 (Concept)	Murs extérieurs	24.5
			Murs fondation	17
			Toit	41
			Dalle	10

Tableau 2 : Spécifications des fenêtres et des portes

Bâtiment	Nbr de bâtiments identiques où ces données s'appliquent	Simulation	Spécification	
Jardins de la Yamaska St-Hyacinthe	1	1 (Référence)	U=	0.3
			SHGC =	0.35
		2 (Concept)	U =	0.28
			SHGC =	0.72

Tableau 3 : Spécifications des thermopompes

Simulation	Spécification	Valeurs 9 MBH	Valeurs 12 MBH	Valeurs 18 MBH	Valeurs 24 MBH	Valeurs 6 MBH
1 (Référence)	SEER	14.3	14.3	14.3	14.3	14.3
	HSPF	7.7	7.7	7.7	7.7	7.7
	COP	N/A	N/A	N/A	N/A	N/A
	T (°F) min.	23	23	23	23	23
2 (Concept)	SEER2	30.0	28	27.5	27	25.5
	HSPF2	11.2	10	10	10	10
	COP	4.4	4.55	4	3.90	4.20
	T (°F) min.	-22	-22	-22	-22	-22

Tableau 4 : Spécifications des échangeurs d'air

Bâtiment	Nbr de bâtiments identiques où ces données s'appliquent	Simulation	Efficacité moyenne (%)	CFM	° F
Jardins de la Yamaska St-Hyacinthe	1	1 (Référence)	65	100	32
		2 (Concept)	81	100	32

Tableau 5 : Éclairage

Bâtiment	Nbr de bâtiments identiques où ces données s'appliquent	Simulation	Type d'éclairage	Efficacité (Lumens/Watt)
Jardins de la Yamaska St-Hyacinthe	1	1 (Référence)	DEL	N/A
		2 (Concept)	DEL	N/A

Tableau 6 : Appareils de plomberie

Bâtiment	Nbr de bâtiments identiques où ces données s'appliquent	Simulation	Débit (USGPM)
Jardins de la Yamaska St-Hyacinthe	1	1 (Référence)	2.5
		2 (Concept)	Douches 1.5 Éviers 1 Lavabos 0.5

4 CONSOMMATION ET COÛTS

Tableau 7 : Consommation d'hydro-électricité et/ou de gaz annuelle pour le chauffage, la climatisation et le conditionnement de l'air

Bâtiment	Nbr de bâtiments identiques où ces données s'appliquent	Simulation	Consommation (KWH)
Jardins de la Yamaska St-Hyacinthe	1	1 (Référence)	717737
		2 (Concept)	396277

Tableau 8 : Coût annuel d'hydro-électricité et/ou de gaz pour le chauffage, la climatisation et le conditionnement de l'air

Bâtiment	Nbr de bâtiments identiques où ces données s'appliquent	Simulation	Coût (\$)
Jardins de la Yamaska St-Hyacinthe	1	1 (Référence)	70147
		2 (Concept)	38729

5 CALCULS

5.1 Calcul du gain par rapport au chauffage, à la climatisation et au conditionnement de l'air

Légende :

		Signification
Variable	A	Consommation en lien avec le chauffage, à la climatisation et au conditionnement de l'air pour la Simulation 1 de Référence (Voir Tableau 7)
	B	Consommation en lien avec le chauffage, à la climatisation et au conditionnement de l'air pour la Simulation 2 de Concept (Voir Tableau 7)
Constante	$\frac{100}{73}$	Résultat remis sur 73% (Voir point 2.5)
	48 %	Pourcentage de la consommation d'hydro-électricité correspondant au chauffage et à la climatisation selon Hydro-Québec. (Voir Figure 1)

Exemple de calcul :

$$\frac{A(KWH) - B(KWH)}{A(KWH)} \times \frac{100}{73} \times 48 \% = \text{Gain} (\%)$$

Résultats :

Bâtiment	Nbr de bâtiments identiques où ces résultats s'appliquent	Gain (%)
Jardins de la Yamaska St-Hyacinthe	1	29.45

5.2 Calcul du gain pour l'ajout d'appareil de plomberie à faible débit

Figure 2 : Répartition de la consommation moyenne d'eau chaude par usage d'une habitation dans un multiplex ou un immeuble à logements multiple selon Hydro-Québec

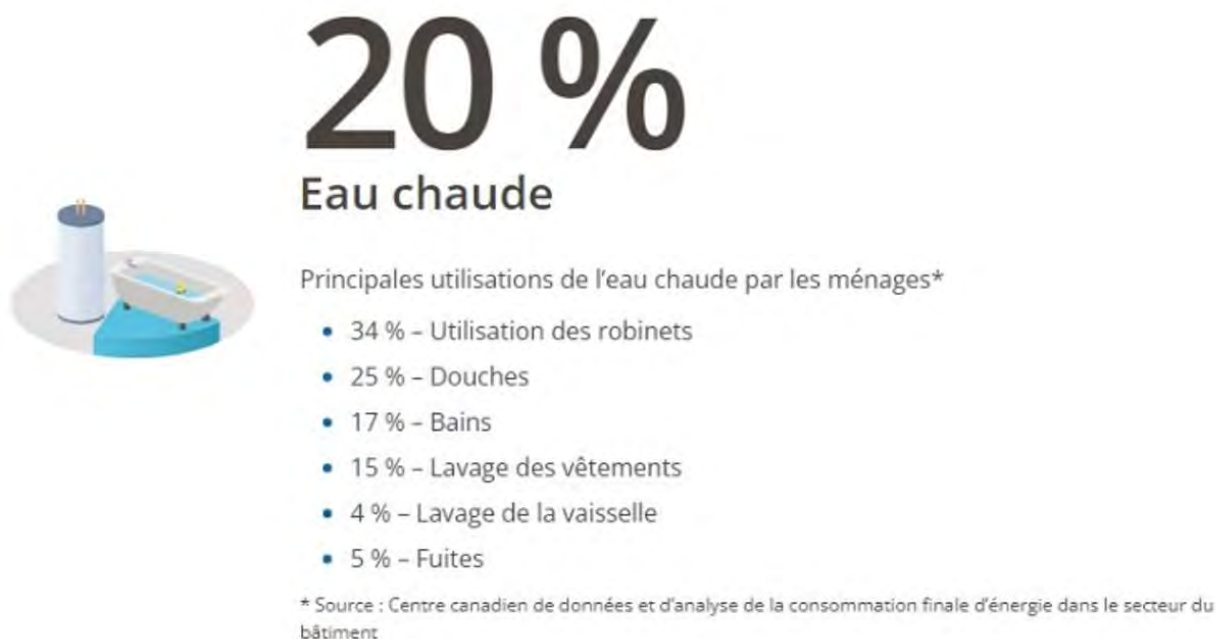


Tableau 9 : Diminution de la charge énergétique des appareils de plomberie selon le débit

Débit (USGPM)	Diminution de la charge énergétique (%)
2.5 (Robinetterie à débit standard)	Non applicable
2	20
1.5	40
1.25	50
1	60

Légende :

		Signification
Variable	A	Diminution de la charge énergétique par rapport aux appareils de plomberie faibles débits. (Voir Tableau 6 et 9)
Constante	$\frac{100}{73}$	Résultat remis sur 73% (Voir point 2.5)
	20 %	Pourcentage de la consommation d'hydro-électricité correspondant à l'utilisation de l'eau chaude. (Voir Figure 2)

Exemple de calcul :

$$A(\%) \times \frac{100}{73} \times 20\% = \text{Gain}(\%)$$

Résultat :

Bâtiment	Nbr de bâtiments identiques où ces résultats s'appliquent	Gain (%)
Jardins de la Yamaska St-Hyacinthe	1	15.70

5.3 Calcul du gain par rapport à l'éclairage

Tableau 10 : Gain selon l'efficacité de l'éclairage

Efficacité (Lumens/Watt)	Diminution de la charge énergétique (%)
50	N/A
75	25
100	50

Légende :

		Signification
Variable	A	Diminution de la charge énergétique par rapport à l'éclairage (Voir Tableau 5 et 10)
Constante	$\frac{100}{73}$	Résultat remis sur 73% (Voir point 2.5)
	5 %	Pourcentage de la consommation d'hydro-électricité correspondant l'éclairage. (Voir Figure 1)

Exemple de calcul :

$$A(\%) \times \frac{100}{73} \times 5\% = \text{Gain}(\%)$$

Résultat :

Bâtiment	Nbr de bâtiments identiques où ces résultats s'appliquent	Gain (%)
Jardins de la Yamaska St-Hyacinthe	1	0.00

5.4 Calcul du gain total de la Simulation 2 de Concept

Légende :

		Signification
Variable	A	Gain par rapport au chauffage, à la climatisation et au conditionnement de l'air. (Voir point 5.1)
	B	Gain pour l'ajout d'appareil de plomberie à faible débit. (Voir point 5.2)
	C	Gain par rapport à l'éclairage. (Voir point 5.3)

Exemple de calcul :

$$A(\%) + B(\%) + C(\%) = \text{Gain total } (\%)$$

Résultat :

Bâtiment	Nbr de bâtiments identiques où ces résultats s'appliquent	Gain (%)
Jardins de la Yamaska St-Hyacinthe	1	45.15

5.5 Estimation de la consommation annuelle globale de l'immeuble à partir de la consommation en chauffage et climatisation

Légende :

		Signification
Variable	A	Consommation en lien avec le chauffage, à la climatisation et au conditionnement de l'air pour la Simulation 1 de Référence (Voir Tableau 7)
	B	Consommation globale en électricité pour la Simulation 1 de Référence
	C	Diminution de la charge énergétique provoquée par le gain total. (Voir Calcul 5.4)
Constante	100 48	Règle de trois utilisée pour estimer la consommation globale en électricité à partir de la consommation en lien avec le chauffage, à la climatisation et au conditionnement de l'air qui équivaut à 48% de la facture (Voir Figure 1)

Exemple de calcul :

$$\text{Simulation 1 : } A(KWH) \times \frac{100}{48} = B(KWH)$$

$$\text{Simulation 2 : } B(KWH) - (B(KWH) \times C(\%)) = \text{Consommation globale (KWH)}$$

Résultats :

Bâtiment	Nbr de bâtiments identiques où ces résultats s'appliquent	Simulation 1 de Référence (KWH)	Simulation 2 de Concept (KWH)
Jardins de la Yamaska St-Hyacinthe	1	1495285	820239

5.6 Estimation de la consommation d'hydro-électricité annuelle pour le chauffage de l'eau et de l'économie suite à l'ajout d'équipement de plomberie à faible débit

Légende :

		Signification
Variable	A	Consommation Globale pour la Simulation 1 de Référence (Voir Calcul 5.5)
	B	Consommation pour l'eau chaude de la Simulation 1 de Référence
	C	Diminution de la charge énergétique provoquée par l'utilisation d'appareils de plomberies à faibles débit. (Voir Tableau 6 et 9)
Constante	20%	Pourcentage d'hydro-électricité attribué à l'utilisation d'eau chaude selon Hydro-Québec (Voir Figure 2)

Exemple de calcul :

$$\text{Simulation 1 : } A(KWH) \times 20\% = B(KWH)$$

$$\text{Simulation 2 : } B(KWH) \times (1 - C(\%)) = \text{Consommation eau chaude après économie (KWH)}$$

Résultats :

Bâtiment	Nbr de bâtiments identiques où ces résultats s'appliquent	Simulation 1 de Référence (KWH)	Simulation 2 de Concept(KWH)
Jardins de la Yamaska St-Hyacinthe	1	299057	127733

5.7 Estimation de la consommation d'hydro-électricité annuelle pour l'éclairage et de l'économie suite à l'ajout de lumières haute efficacité

Légende :

		Signification
Variable	A	Consommation Globale pour la Simulation 1 de Référence (Voir Calcul 5.5)
	B	Consommation pour l'éclairage de la Simulation 1 de Référence
	C	Diminution de la charge énergétique provoquée par l'utilisation de lumière haute efficacité. (Voir Tableau 5 et 10)
Constante	5%	Pourcentage d'hydro-électricité attribué à l'éclairage selon Hydro-Québec (Voir Figure 2)

Exemple de calcul :

$$\text{Simulation 1 : } A(KWH) \times 5\% = B(KWH)$$

$$\text{Simulation 2 : } B(KWH) \times (1 - C(\%)) = \text{Consommation éclairage après économie (KWH)}$$

Résultat :

Bâtiment	Nbr de bâtiments identiques où ces résultats s'appliquent	Simulation 1 de Référence (KWH)	Simulation 2 de Concept (KWH)
Jardins de la Yamaska St-Hyacinthe	1	74764	74764

5.8 Calcul de la quantité de GES relié à l'utilisation de l'électricité

Légende :

		Signification
Variable	A	Consommation Globale pour la Simulation 1 de Référence (Voir Calcul 5.5)
	B	Émission de GES pour la Simulation 1 de Référence
	C	Diminution de la charge énergétique provoquée par le gain total. (Voir Calcul 5.4)
Constante	34.5g de CO₂/KWH	Cette donnée provient d'Hydro-Québec et correspond à l'émission de CO ₂ générée par l'utilisation de combustibles fossiles dans le processus de l'hydro-électricité
	1000000	Facteur de conversion de grammes de CO ₂ à tonnes de CO ₂ .

Exemple de calcul :

$$\text{Simulation 1 : } \frac{A(KWH) \times 34.5g \text{ de } CO_2/KWH}{1000000} = B(T)$$

$$\text{Simulation 2 : } = B(T) - (B(T) \times C(\%)) = \text{GES après économie (T)}$$

Résultat :

Bâtiment	Nbr de bâtiments identiques où ces résultats s'appliquent	GES Simulation 1 de Référence (T)	GES Simulation 2 de Concept (T)
Jardins de la Yamaska St-Hyacinthe	1	51.6	28.3

5.9 Conversion de KWH en GJ pour la consommation globale

Légende :

		Signification
Variable	A	Consommation Globale pour la Simulation 1 de Référence (Voir Calcul 5.5)
	B	Consommation Globale pour la Simulation 2 de Concept (Voir Calcul 5.5)
Constante	0.0036	Facteur de conversion de KWH à GJ.

Exemple de calcul :

$$\text{Simulation 1 : } A(KWH) \times 0.0036(GJ/KWH) = \text{Consommation globale(GJ)}$$

$$\text{Simulation 2 : } B(KWH) \times 0.0036(GJ/KWH) = \text{Consommation globale(GJ)}$$

Résultats :

Bâtiment	Nbr de bâtiments identiques où ces résultats s'appliquent	Consommation Simulation 1 de Référence (GJ)	Consommation Simulation 2 de Concept (GJ)
Jardins de la Yamaska St-Hyacinthe	1	5383	2953

6 ANALYSE ET RÉSULTATS FINAUX

6.1 Récapitulatif :

Tableau 10 : Récapitulatif de la consommation électrique avant et après optimisation énergétique

Définition	Bâtiment	Nbr de bâtiments identiques où ces valeurs s'appliquent	Valeur d'origine (KWH)	Valeur optimisée (KWH)	Commentaire
Consommation d'électricité totale annuelle pour le chauffage, la climatisation et le conditionnement de l'air.	Jardins de la Yamaska St-Hyacinthe	1	717737	396277	Voir point 6.2
Estimation de la consommation annuelle globale de l'immeuble à partir de la consommation en chauffage, climatisation et conditionnement de l'air.	Jardins de la Yamaska St-Hyacinthe	1	1495285	820239	Voir point 6.3
Estimation de la consommation d'électricité annuelle pour l'eau chaude et de l'économie suite à l'ajout d'équipement de plomberie à faible débit.	Jardins de la Yamaska St-Hyacinthe	1	299057	127733	Voir point 6.4
Estimation de la consommation d'électricité annuelle pour l'éclairage et de l'économie suite à l'ajout de lumière haute efficacité.	Jardins de la Yamaska St-Hyacinthe	1	74764	74764	Voir point 6.5

6.2 Données provenant directement du logiciel HAP Carrier selon la Simulation 1 de Référence versus la Simulation 2 de Concept.

6.3 Il est très difficile d'évaluer la part d'électricité qu'utilisent le chauffage de l'eau chaude, l'éclairage, les électroménagers, les appareils électroniques et les autres charges, car ces éléments sont sous le contrôle des occupants. Il est alors plus précis et fiable de se baser sur les statistiques connues et éprouvées d'Hydro-Québec (Voir Figure 1).

Pour obtenir la consommation annuelle globale, il faut donc extrapoler à partir de données connues, c'est-à-dire celles de la consommation d'électricité totale annuelle pour le chauffage, la climatisation et le conditionnement de l'air qui proviennent du logiciel HAP Carrier. La logique est celle d'une règle de trois. Si les KWH du chauffage et de la climatisation correspondent à 48% de la facture d'électricité selon Hydro-Québec (Voir Figure 1), quel serait le nombre de KWH équivalant à 100% de la facture.

6.4 Pour l'estimation de la consommation annuelle du chauffage de l'eau, la part qu'occupe ce dernier dans la facture totale d'électricité selon Hydro-Québec (20%, Voir Figure 1) est multipliée par l'estimation de la consommation annuelle globale.

6.5 Pour l'estimation de la consommation annuelle de l'éclairage, la part qu'occupe ce dernier dans la facture totale d'électricité selon Hydro-Québec (5%, Voir Figure 1) est multipliée par l'estimation de la consommation annuelle globale.

Tableau 11 : Résultats finaux des simulations en GJ prenant en considération le nombre de bâtiments identiques

	Immeuble évalué (E)	Immeuble de référence (R)	Économies d'énergie (en %) $(R-E)/R \times 100$
Consommation d'énergie annuelle totale (GJ/année)	2953	5383	45.15
Émissions de gaz à effet de serre annuelles totales (nombre de tonnes d'équivalent CO2 par année)	28.3	51.6	45.15

7 CONCLUSION

- 7.1 La conception des immeubles du présent rapport dépasse le pourcentage d'efficacité énergétique demandé par le niveau 3 de l'APH-Select, soit de 40% par rapport aux normes minimums permises par le code du bâtiment. Le projet est donc conforme aux demandent de l'APH-Select Niveau 3 pour une construction neuve.

- 7.2 Par conséquent, le client fera financer son bâtiment par un programme correspondant au Niveau 3 de l'APH-Select.

Tableau 12 : Spécifications finales des composantes architecturales et des systèmes électromécaniques

Bâtiment	Nombre de bâtiments identiques	Spécification				Statut par rapport à la Simulation 1
Jardins de la Yamaska St-Hyacinthe	1	Résistance Thermique (R)				Améliorée
		Murs extérieurs	Murs sous-sol	Toiture	Dalle	
		24.5	17	41	10	
		Échangeur d'air				Amélioré
		Efficacité =	81	CFM =	100	
		Thermopompes				Améliorée
		MBH	SEER2	COP	T (°F) Min.	
		6	25.5	4.20	-22	
		9	30.0	4.4	-22	
		12	28.0	4.55	-22	
		18	27.5	4	-22	
		24	27.0	3.90	-22	
		Fenêtres et Porte Vitrées				Améliorée
		U =	0.28	SC =	0.72	
		Débit des appareils de plomberie				Amélioré
		USGPM =	Douches 1.5 Éviers 1 Lavabos 0.5			
		Éclairage DEL				N/A
		Lumens/Watt =		N/A		
		----- Système de chauffage auxiliaire ----- Plinthe Électrique				Idem

Tableau 13 : Emplacement des thermopompes

		Systèmes VRF			
		MBH	EER	COP	Récupération d'énergie (%)
Zones	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A
		Thermopompes Bi-Bloc			
		MBH	SEER2	COP	T (°F) Min.
Zones	Local 158, 159, 160, 161, 162, 163, 164, 167	6	25.5	4.2	-22
	Local 257, 357, 457, 4152	9	30.0	4.4	-22
	Logements 4101, 4102, 4103, 4104, 4105, 4107, 4109, 4111, 4113, 4115, 4117, 4118, 4119, 4120, 4130, 4131, 4132, 4133, 4134, 4136, 4138, 4201, 4202, 4203, 4204, 4206, 4207, 4208, 4209, 4210, 4211, 4212, 4213, 4214, 4215, 4216, 217, 4217, 4218, 4220, 4222, 4223, 4224, 4225, 4227, 4228, 4230, 4232, 4234, 4235, 4236, 4238, 4300, 4301, 4302, 4303, 4304, 4306, 4308, 4310, 4312, 4314, 4316, 4317, 4318, 4320, 4322, 4323, 4324, 4325, 4326, 4327, 4328, 4330, 4331, 4332, 4333, 4334, 4336, 4338, 4400, 4401, 4402, 4403, 4404, 4406, 4408, 4410, 4412, 4414, 4416, 4417, 4418, 4420, 4422, 4423, 4424, 4425, 4426, 4427, 4428, 4430, 4431, 4432, 4433, 4434, 4436, 4438	12	28.0	4.55	-22
	Local 177. Logements 4106, 4108, 4110, 4112, 4114, 4116, 4129, 4135, 4205, 4219, 4221, 4229, 4231, 4233, 4305, 4307, 4309, 4311, 4313, 4315, 4319, 4321, 4329, 4335, 4405, 4407, 4409, 4411, 4413, 4415, 4419, 4421, 4429, 4435	18	27.5	4.0	-22
	Local 175, 176	24	27.0	3.9	-22

7.3 Sceau de l'ingénieur

Approuvé par Charles Morissette ing.

CM/cm



Design Weather Parameters

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

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Design Parameters:

Location **Montreal St-Hubert, QC, Canada**
 Latitude **45.52** °N (+ : north, - : south)
 Longitude **-73.42** °E (+ : east, - : west)
 Elevation **90.0** ft
 Climate Zone **6A - Cold Humid**
 Local Time Zone **-5.0** hours from GMT (+ : east, - : west)
 Summer Design Condition **0.4% Cooling**
 Summer Design Dry-Bulb **86.1** F
 Summer Coincident Wet-Bulb **71.8** F
 Summer Daily Range **17.7** F
 Hottest Month **July**
 Winter Design Condition **User Defined**
 Winter Design Dry-Bulb **-20.0** F
 Winter Design Wet-Bulb **-20.0** F
 Outdoor Air CO2 Level **400** ppm
 Average Ground Reflectance **0.20**
 Soil Conductivity **0.800** BTU/(hr ft F)
 Design Cooling Months **January to December**
 Consider Daylight Savings Time **Yes**
 Daylight Savings Begins **March 12**
 Daylight Savings Ends **November 5**
 Simulation Weather Data **Montreal St Hubert Longueuil AP (TMYx_2004_2018)**
 Current Data is **User Defined**

Design Day Maximum Solar Fluxes

(The flux values are expressed in BTU/(hr sqft))

Month	N	NNE	NE	ENE	E	ESE	SE	SSE	S
January	18.0	18.0	21.5	89.5	164.0	228.4	270.0	289.0	295.5
February	24.3	24.3	54.1	136.0	199.0	254.2	278.2	288.5	289.0
March*	29.4	33.3	109.5	170.9	231.7	260.1	270.7	263.2	255.2
April*	33.3	88.4	150.6	211.5	242.9	253.8	239.5	218.7	206.6
May*	53.1	118.7	178.8	220.9	241.8	234.3	207.7	180.0	166.0
June*	59.2	122.4	175.0	213.6	227.8	218.2	190.0	161.0	146.0
July*	46.1	112.5	165.5	211.1	227.9	224.9	200.9	173.8	158.8
August*	33.2	79.4	140.8	194.8	223.1	236.6	225.5	206.6	194.8
September*	28.1	35.6	101.0	163.9	212.3	243.4	250.7	244.5	238.6
October*	21.8	21.8	56.9	116.7	186.7	230.8	259.2	266.9	267.2
November	17.0	17.0	18.0	83.4	147.9	208.1	246.7	268.9	274.1
December	16.0	16.0	16.0	61.4	130.4	191.2	236.8	260.2	269.6
Month	SSW	SW	WSW	W	WNW	NW	NNW	HOR	Mult
January	290.5	268.1	229.1	160.9	92.1	18.0	18.0	134.0	1.00
February	290.3	281.6	251.0	203.7	133.5	59.3	24.3	184.8	1.00
March*	263.4	270.7	260.9	231.4	172.5	109.6	31.9	231.1	1.00
April*	219.0	240.9	253.7	242.3	211.0	154.8	85.7	270.6	1.00
May*	180.7	210.2	235.8	238.6	223.1	176.6	119.3	289.1	1.00
June*	161.3	191.1	218.8	226.2	214.5	173.4	122.5	287.2	1.00
July*	173.8	200.9	224.9	227.9	211.1	165.4	112.5	280.2	1.00
August*	206.6	225.9	236.4	224.6	194.2	141.9	78.1	257.4	1.00
September*	243.5	249.9	240.7	214.8	162.7	100.1	35.8	217.9	1.00
October*	265.3	257.8	233.5	183.1	123.4	54.1	21.8	167.7	1.00
November	268.5	249.0	203.7	151.5	77.7	22.2	17.0	123.8	1.00
December	262.6	237.9	187.2	131.6	59.9	16.0	16.0	107.6	1.00

Mult. = User-defined solar multiplier factor.

* : Daylight Saving Month

building1

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1. General Information

Building building1
Default Level-to-Level Height 11' 8"
Default Ceiling Space Yes
Default Floor-to-Ceiling Height 10' 2"
Default Raised Floor No
Default Window Opening Elevation 1' 6"
Validation Errors None
Notes None

2. Floor Plan Images

2.1. Summary of Floor Plan Images

Floor Plan Image	North Orientation (deg)	Scale	Used in Level(s)
2E BON	-45.0	1/16" = 1'	2E
3E BON	-45.0	1/16" = 1'	3E
4E BON	-45.0	1/16" = 1'	4E
Orientation -45	0.0	-	
RDC Bon	-45.0	1/16" = 1'	RDC

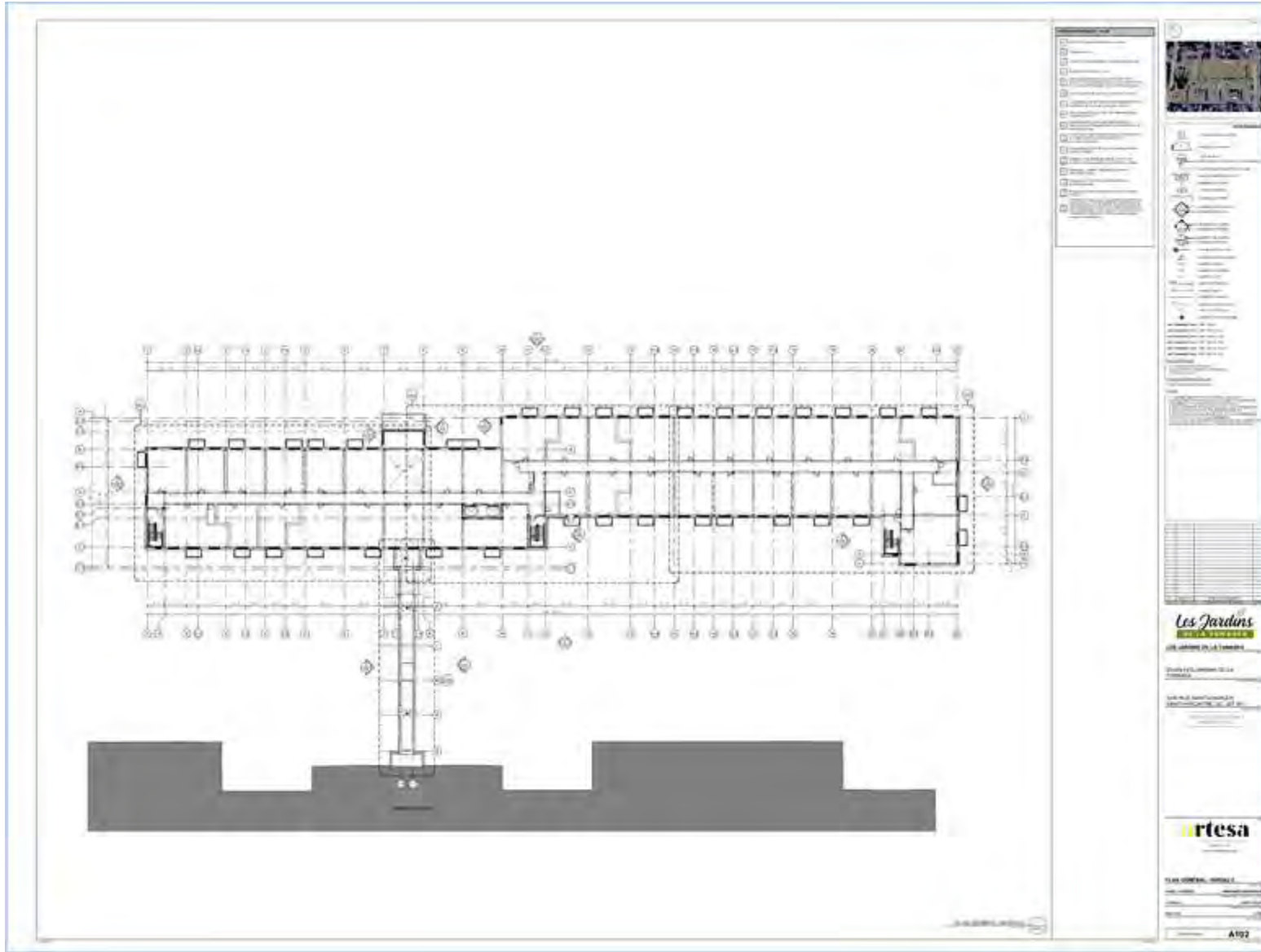
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2.2. Floor Plan Images

2E BON:



	building1 Project: 25845 142 logements Jardins de la Yamaska St-Hyacinthe Prepared by: Groupe CMI
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Architectural floor plan of a large, rectangular building, likely a school or institutional facility. The plan shows a complex internal layout with numerous rooms, corridors, and service areas. The building is oriented horizontally. A legend on the right side of the plan provides a key for the various symbols and line types used. The plan is titled "Plan de l'édifice" and includes a scale bar and a north arrow.

Legend:

- 1. Entrée principale
- 2. Entrée secondaire
- 3. Entrée tertiaire
- 4. Entrée quaternaire
- 5. Entrée quinaire
- 6. Entrée sextaire
- 7. Entrée septaire
- 8. Entrée octaire
- 9. Entrée nonaire
- 10. Entrée décimale
- 11. Entrée undécimale
- 12. Entrée dodécimale
- 13. Entrée tridécimale
- 14. Entrée tétradécimale
- 15. Entrée pentadécimale
- 16. Entrée hexadécimale
- 17. Entrée heptadécimale
- 18. Entrée octadécimale
- 19. Entrée enneadécimale
- 20. Entrée vigintième
- 21. Entrée trigesime
- 22. Entrée quadrigesime
- 23. Entrée quinquagesime
- 24. Entrée sexagesime
- 25. Entrée septuagesime
- 26. Entrée octogésime
- 27. Entrée nonagésime
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building1

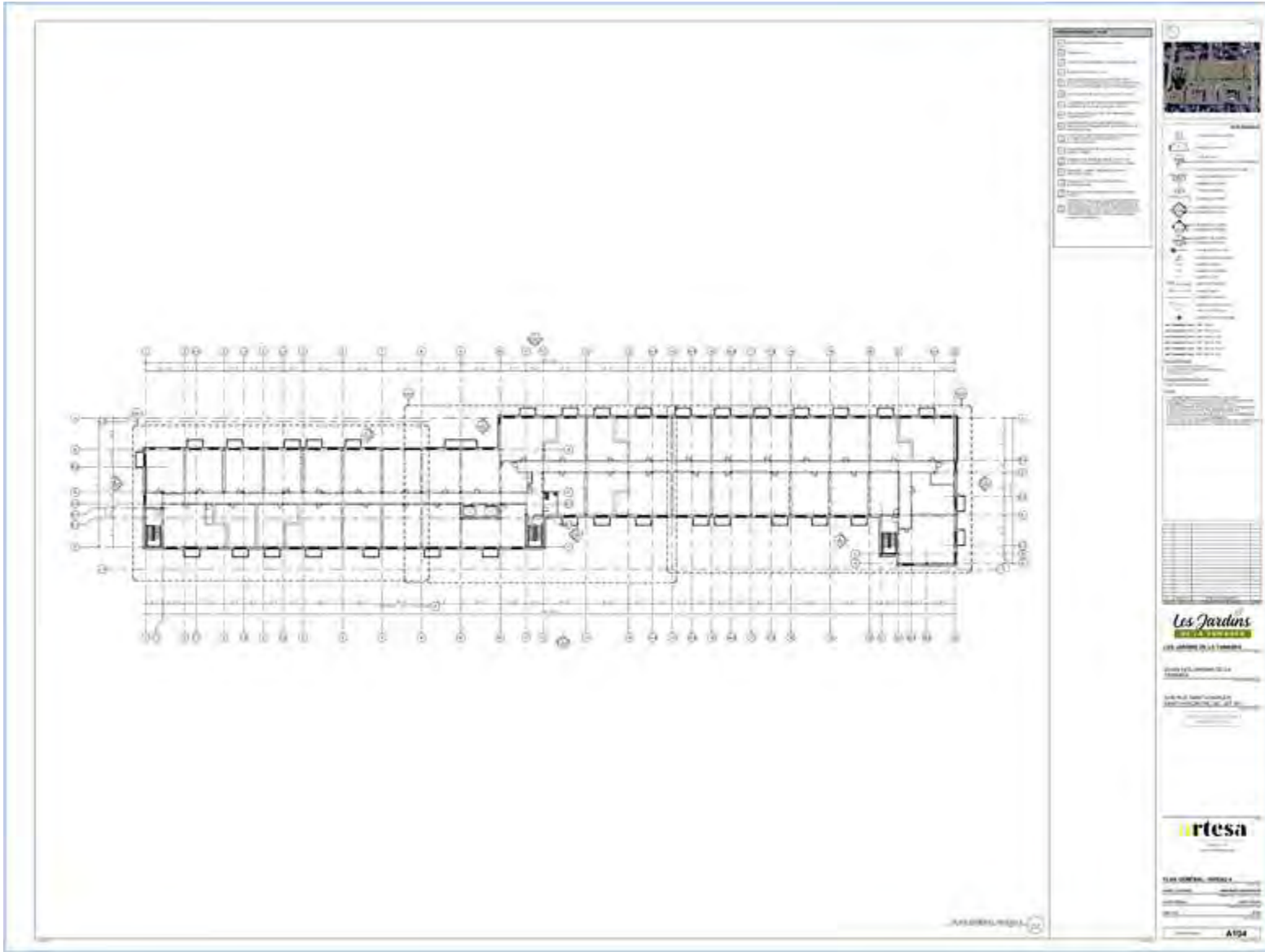
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4E BON:



building1

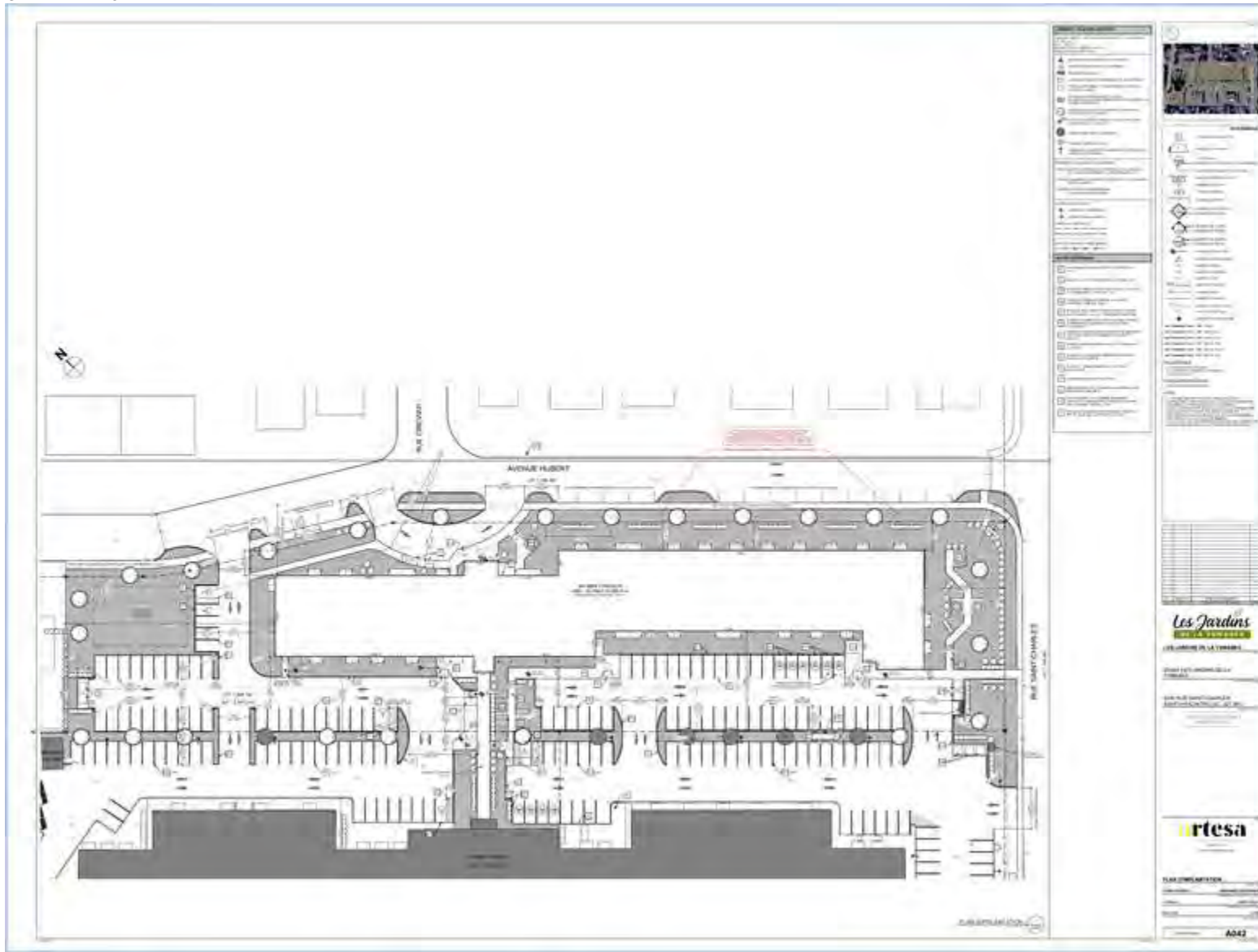
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Orientation -45:



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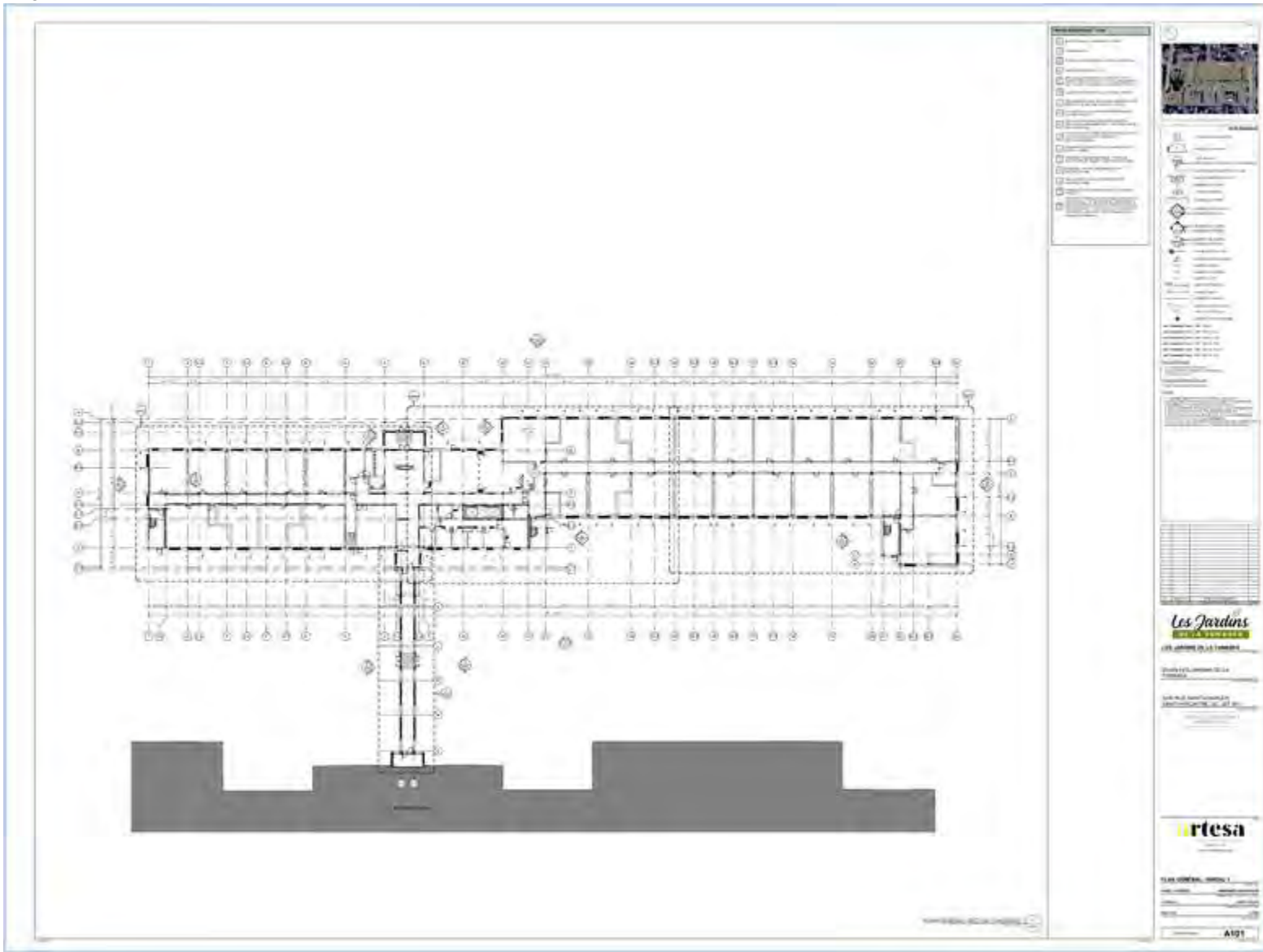
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RDC Bon:



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3. Levels

Level	Vertical Position	Override General Defaults	Level-to-Level Height	Floor-to-Ceiling Height	Default Opening Elevation	Raised Floor Height	Associated Floor Plan Image
4E	Above 3E	Yes	12' 8"	11' 2"	1' 6"	-	4E BON
3E	Above 2E	No	11' 8"	10' 2"	1' 6"	-	3E BON
2E	Above RDC	No	11' 8"	10' 2"	1' 6"	-	2E BON
Hall/Vestibule 170/171	At-grade	Yes	23' 4"	21' 10"	1' 6"	-	-
RDC	At-grade	No	11' 8"	10' 2"	1' 6"	-	RDC Bon

4. Walls & Spaces, Roofs

4.1. Building Summary

Level	Space Count	Floor Area (sqft)	Volume (cuft)	Interior Wall Gross Area (sqft)	Exterior Wall Gross Area (sqft)
4E	24	31682.2	401284.3	37984.6	15279.6
3E	10	31682.4	369900.3	26433.0	14072.6
2E	26	31682.3	368655.3	35945.6	13788.2
Hall/Vestibule 170/171	1	264.3	6161.4	531.3	1074.6
RDC	39	32676.5	381069.1	40596.6	17134.2
Total	100	127987.7	1527070.5	141491.2	61349.2

4.2. Building Summary (Roof Levels)

Level	Section Count	Total Roof Area (sqft)	Heat Transfer Area (sqft)	Exterior Wall Gross Area (sqft)
Implied Roofs	28	33248.0	33248.0	0.0

4.3. Space Details

Space	Floor Area (sqft)	Volume (cuft)	Interior Wall Gross Area (sqft)	Exterior Wall Gross Area (sqft)	Multi-Level	Floor-to-Ceiling Height	Raised Floor Height	Notes
4E								
4E 401	865.1	9655.0	1048.4	444.7	No	11' 2"	-	

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Space	Floor Area (sqft)	Volume (cuft)	Interior Wall Gross Area (sqft)	Exterior Wall Gross Area (sqft)	Multi-Level	Floor-to-Ceiling Height	Raised Floor Height	Notes
4E 402 à 404	1943.0	21683.8	1406.5	803.0	No	11' 2"	-	
4E 405	849.7	9482.5	996.7	392.2	No	11' 2"	-	
4E 406 et 407	1152.0	12856.0	1361.7	392.9	No	11' 2"	-	
4E 408	967.9	10801.7	1044.1	438.9	No	11' 2"	-	
4E 409	656.2	7323.1	573.0	573.1	No	11' 2"	-	
4E 410 à 417	5190.3	57924.3	2744.0	2138.6	No	11' 2"	-	
4E 418	856.5	9558.4	782.5	611.4	No	11' 2"	-	
4E 419 et 420	1151.4	12850.0	1370.7	390.5	No	11' 2"	-	
4E 421	847.3	9456.2	996.6	390.3	No	11' 2"	-	
4E 422 à 426	3261.7	36401.2	1948.3	1342.0	No	11' 2"	-	
4E 427	575.1	6418.2	984.0	196.7	No	11' 2"	-	
4E 428	852.5	9513.6	693.8	693.8	No	11' 2"	-	
4E 429	591.4	6599.8	982.2	208.2	No	11' 2"	-	
4E 430	993.5	11087.7	666.6	793.6	No	11' 2"	-	
4E 431 à 435	3285.9	36671.7	1953.4	1343.1	No	11' 2"	-	
4E 436	856.0	9553.6	1000.7	390.4	No	11' 2"	-	
4E 437 et 438	1143.4	12760.3	1378.2	383.3	No	11' 2"	-	
4E corridor 400	3765.4	42022.0	12424.4	100.4	No	11' 2"	-	
4E ESC1	268.5	2996.7	397.4	397.4	No	11' 2"	-	
4E ESC2 / 4E Conciergerie 455	354.8	3960.1	775.0	431.3	No	11' 2"	-	
4E ESC3 / 4E Rang. 454	724.5	8085.2	1065.8	455.6	No	11' 2"	-	
4E Rang. 456	336.6	3756.2	885.4	0.0	No	11' 2"	-	
4E salle commune 457	193.7	2161.7	505.0	159.5	No	11' 2"	-	
Ceiling/Floor Spaces	-	47705.2	-	1808.5	-	-	-	
3E								
3E 301 à 308	5777.7	58774.9	2979.6	2250.2	No	10' 2"	-	
3E 309 à 328	13391.1	136224.6	5216.7	5768.7	No	10' 2"	-	
3E 329 et 330	1584.9	16123.2	952.5	912.1	No	10' 2"	-	

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Space	Floor Area (sqft)	Volume (cuft)	Interior Wall Gross Area (sqft)	Exterior Wall Gross Area (sqft)	Multi-Level	Floor-to-Ceiling Height	Raised Floor Height	Notes
3E 331 à 338	5285.2	53766.7	2663.8	1927.2	No	10' 2"	-	
3E corridor 300	3768.3	38333.7	11316.8	91.4	No	10' 2"	-	
3E ESC1	268.5	2731.5	361.8	361.8	No	10' 2"	-	
3E ESC2 350 / 3E Rang. 355	352.0	3580.4	705.6	392.6	No	10' 2"	-	
3E ESC3 / 3E Rang. 354	724.5	7369.9	970.3	414.8	No	10' 2"	-	
3E Rang. 356	336.6	3423.8	806.1	0.0	No	10' 2"	-	
3E salle commune 357	193.7	1970.5	459.7	145.3	No	10' 2"	-	
Ceiling/Floor Spaces	-	47601.2	-	1808.5	-	-	-	
2E								
2E 201	865.1	8783.7	954.5	404.9	No	10' 2"	-	
2E 202 à 204	1943.0	19727.6	1280.5	731.0	No	10' 2"	-	
2E 205	845.6	8585.4	903.8	353.5	No	10' 2"	-	
2E 207 et 206	1151.2	11688.5	1244.9	357.6	No	10' 2"	-	
2E 208	972.9	9878.2	954.2	403.2	No	10' 2"	-	
2E 209	661.3	6714.0	523.6	523.6	No	10' 2"	-	
2E 210 à 214	3254.4	33042.5	1771.9	1220.7	No	10' 2"	-	
2E 215 et 216	1270.4	12898.5	1027.7	476.6	No	10' 2"	-	
2E 217	862.9	8761.5	716.7	561.0	No	10' 2"	-	
2E 218 et 219	1151.3	11689.3	1256.0	354.1	No	10' 2"	-	
2E 220	839.5	8523.3	904.0	352.0	No	10' 2"	-	
2E 221 à 225	3265.4	33153.4	1775.1	1223.1	No	10' 2"	-	
2E 226	573.0	5818.1	900.7	176.0	No	10' 2"	-	
2E 227	852.3	8653.0	633.9	633.9	No	10' 2"	-	
2E 228	593.9	6029.7	895.2	190.5	No	10' 2"	-	
2E 229	991.0	10061.7	605.9	721.6	No	10' 2"	-	
2E 230 à 234	3286.8	33371.0	1778.7	1223.1	No	10' 2"	-	
2E 235	844.7	8576.4	907.1	351.5	No	10' 2"	-	
2E 236 et 237	1153.7	11713.6	1255.5	352.6	No	10' 2"	-	

building1

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Space	Floor Area (sqft)	Volume (cuft)	Interior Wall Gross Area (sqft)	Exterior Wall Gross Area (sqft)	Multi-Level	Floor-to-Ceiling Height	Raised Floor Height	Notes
2E corridor	3762.6	38205.3	11306.1	91.4	No	10' 2"	-	
2E ESC1	268.5	2726.2	361.8	361.8	No	10' 2"	-	
2E ESC2 / 2E Rang. 255	357.5	3629.5	705.6	392.6	No	10' 2"	-	
2E ESC3 et 2E Rang. 254	724.5	7355.6	970.3	414.8	No	10' 2"	-	
2E Hall 170	660.6	6707.0	1046.4	0.0	No	10' 2"	-	
2E Rang. 256	336.5	3417.2	806.1	0.0	No	10' 2"	-	
2E salle commune 257	193.7	1966.7	459.7	145.3	No	10' 2"	-	
Ceiling/Floor Spaces	-	46978.4	-	1772.0	-	-	-	
Hall/Vestibule 170/171								
RDC Vestibule 171	264.3	5769.5	531.3	1005.6	No	21' 10"	-	
Ceiling/Floor Spaces	-	391.9	-	69.1	-	-	-	
RDC								
RDC 101	845.6	8596.5	904.5	353.5	No	10' 2"	-	
RDC 102 et 103	1151.2	11703.6	1244.9	357.6	No	10' 2"	-	
RDC 104	972.9	9890.9	954.2	403.2	No	10' 2"	-	
RDC 105	661.3	6722.6	523.6	523.6	No	10' 2"	-	
RDC 106 à 109	2602.0	26452.1	1527.2	976.0	No	10' 2"	-	
RDC 110 et 111	1151.3	11704.4	1256.0	354.1	No	10' 2"	-	
RDC 112	839.5	8534.4	904.0	352.0	No	10' 2"	-	
RDC 113 à 117	3265.4	33196.3	1775.1	1223.1	No	10' 2"	-	
RDC 118	573.0	5825.6	900.7	176.0	No	10' 2"	-	
RDC 119	852.3	8664.2	633.9	633.9	No	10' 2"	-	
RDC 120	593.9	6037.5	895.2	190.5	No	10' 2"	-	
RDC 121	991.0	10074.7	605.9	721.6	No	10' 2"	-	
RDC 122 à 126	3286.8	33414.1	1778.7	1223.1	No	10' 2"	-	
RDC 127	844.7	8587.4	907.1	351.5	No	10' 2"	-	
RDC 128 et 129	1153.7	11728.7	1255.5	352.6	No	10' 2"	-	
RDC 169 / 170 / Corridor 100	2234.7	22718.8	3663.7	414.9	No	10' 2"	-	

building1

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Space	Floor Area (sqft)	Volume (cuft)	Interior Wall Gross Area (sqft)	Exterior Wall Gross Area (sqft)	Multi-Level	Floor-to-Ceiling Height	Raised Floor Height	Notes
RDC Atelier	661.6	6725.5	798.7	248.7	No	10' 2"	-	
RDC Billard	863.0	8773.0	716.7	561.0	No	10' 2"	-	
RDC Bureau 157	293.2	2980.7	607.7	149.4	No	10' 2"	-	
RDC Bureau 158	166.4	1691.2	402.6	129.5	No	10' 2"	-	
RDC Bureau 159	132.9	1351.4	373.8	100.6	No	10' 2"	-	
RDC Bureau 160	131.3	1334.3	372.5	99.3	No	10' 2"	-	
RDC Bureau 161	129.6	1317.8	371.3	98.1	No	10' 2"	-	
RDC Corridor	2188.7	22251.0	6525.4	0.0	No	10' 2"	-	
RDC Corridor 100	980.6	9968.5	3021.1	91.4	No	10' 2"	-	
RDC Corridor 100A	205.2	2086.6	912.2	0.0	No	10' 2"	-	
RDC EAU	186.9	1900.4	493.7	97.6	No	10' 2"	-	
RDC ESC1	268.5	2729.8	361.8	361.8	No	10' 2"	-	
RDC ESC2 / RDC Conciergerie 155	354.3	3602.0	705.6	392.6	No	10' 2"	-	
RDC ESC3	251.5	2556.5	347.6	347.6	No	10' 2"	-	
RDC Méc 154	473.0	4808.7	840.5	67.1	No	10' 2"	-	
RDC Passage couvert 176	980.4	9639.1	171.0	2217.4	No	9' 10"	-	
RDC Poste2 162	135.0	1372.0	375.3	102.2	No	10' 2"	-	
RDC Réception1	238.7	2427.0	693.3	0.0	No	10' 2"	-	
RDC salle commune 175	193.7	1969.2	459.7	145.3	No	10' 2"	-	
RDC Salons résidents	1397.0	14202.1	1491.1	379.0	No	10' 2"	-	
RDC SOINS 167	196.0	1992.2	460.5	118.5	No	10' 2"	-	
RDC Vestibule 001	161.1	1637.6	88.4	474.0	No	10' 2"	-	
RDC Vestibule100C	68.8	698.9	276.1	68.5	No	10' 2"	-	
Ceiling/Floor Spaces	-	49201.7	-	2277.5	-	-	-	

4.4. Unmodeled Space Details

Unmodeled Spaces	Level	Notes
2E ASC	2E	

building1

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Unmodeled Spaces	Level	Notes
3E ASC	3E	
4E ASC	4E	
RDC ASC et MÉC. 151 et 156	RDC	
RDC WC 166	RDC	
RDC WC 168	RDC	

4.5. Roof Details

Name	Shape	Total Area (sqft)	Heat Transfer Area (sqft)	Pitch		Notes
				Pitch A	Pitch B	
4E						
Ceiling Space for 4E 401	Flat	865.1	865.1	-	-	
Ceiling Space for 4E 402 à 404	Flat	1943.0	1943.0	-	-	
Ceiling Space for 4E 405	Flat	849.7	849.7	-	-	
Ceiling Space for 4E 406 et 407	Flat	1152.0	1152.0	-	-	
Ceiling Space for 4E 408	Flat	967.9	967.9	-	-	
Ceiling Space for 4E 409	Flat	656.2	656.2	-	-	
Ceiling Space for 4E 410 à 417	Flat	5190.3	5190.3	-	-	
Ceiling Space for 4E 418	Flat	856.5	856.5	-	-	
Ceiling Space for 4E 419 et 420	Flat	1151.4	1151.4	-	-	
Ceiling Space for 4E 421	Flat	847.3	847.3	-	-	
Ceiling Space for 4E 422 à 426	Flat	3261.7	3261.7	-	-	
Ceiling Space for 4E 427	Flat	575.1	575.1	-	-	
Ceiling Space for 4E 428	Flat	852.5	852.5	-	-	
Ceiling Space for 4E 429	Flat	591.4	591.4	-	-	
Ceiling Space for 4E 430	Flat	993.5	993.5	-	-	
Ceiling Space for 4E 431 à 435	Flat	3285.9	3285.9	-	-	
Ceiling Space for 4E 436	Flat	856.0	856.0	-	-	
Ceiling Space for 4E 437 et 438	Flat	1143.4	1143.4	-	-	
Ceiling Space for 4E corridor 400	Flat	3765.4	3765.4	-	-	

building1

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Name	Shape	Total Area (sqft)	Heat Transfer Area (sqft)	Pitch		Notes
				Pitch A	Pitch B	
Ceiling Space for 4E ESC1	Flat	268.5	268.5	-	-	
Ceiling Space for 4E ESC2 / 4E Conciergerie 455	Flat	354.8	354.8	-	-	
Ceiling Space for 4E ESC3 / 4E Rang. 454	Flat	724.5	724.5	-	-	
Ceiling Space for 4E Rang. 456	Flat	336.6	336.6	-	-	
Ceiling Space for 4E salle commune 457	Flat	193.7	193.7	-	-	
Hall/Vestibule 170/171						
Ceiling Space for RDC Vestibule 171	Flat	264.3	264.3	-	-	
RDC						
Ceiling Space for RDC 169 / 170 / Corridor 100	Flat	160.0	160.0	-	-	
Ceiling Space for RDC Passage couvert 176	Flat	980.4	980.4	-	-	
Ceiling Space for RDC Vestibule 001	Flat	161.1	161.1	-	-	

4.6. Summary of Wall Groups

Wall Group	Interior Wall Gross Area (sqft)	Exterior Wall Gross Area (sqft)	Notes
Default	141491.2	61349.2	
Air Walls	0.0	0.0	

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5. Openings**5.1. Schedule of Window Openings**

Tag	Count	Total Area (sqft)	Width	Height	Elevation	Exterior Shade	Notes
F-01	25	412.0	3'	5' 6"	1' 8"	None	
F-02	4	110.0	5'	5' 6"	1' 8"	None	
F-03	146	4820.0	6'	5' 6"	1' 8"	None	
F-04	4	198.0	9'	5' 6"	1' 8"	None	
MR-01	2	75.6	5' 8"	6' 8"	11' 10"	None	
MR-02	1	43.7	6' 6 3/4"	6' 8"	11' 10"	None	
MR-03	2	90.0	6' 9"	6' 8"	11' 10"	None	
MR-04	2	132.3	5' 8"	11' 8"	0'	None	
MR-05	2	157.4	6' 9"	11' 8"	0'	None	
MR-07	4	187.1	5' 6"	8' 6"	0'	None	
MR-09	1	72.3	8' 6"	8' 6"	0'	None	
MR-10	8	758.2	13'	7' 3 1/2"	0'	None	

5.2. Schedule of Door Openings

Tag	Count	Total Area (sqft)	Width	Height	Shade	Notes
MR-06 avec porte	1	76.5	6' 6 3/4"	11' 8"	None	
MR-08	1	46.8	5' 6"	8' 6"	None	
MR-11	2	148.6	10' 2 1/4"	7' 3 1/2"	None	
PG 165B	1	56.0	8'	7'	None	
PO Standard	4	83.9	3'	7'	None	
PP-01	138	6538.5	7'	6' 9 1/4"	None	
PV standard	2	42.0	3'	7'	None	

5.3. Schedule of Skylight Openings

None

a) Space Model REF

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1. General Information

Space Model a) Space Model REF
Building building1
Infiltration Model Constant Infiltration
Notes:

2. Spaces

The space model contains 100 spaces with total floor area of 127,988 sqft.

2.1. Ventilation

Index	Space	Level	Floor Area (sqft)	Space Type	Ventilation						
					ASHRAE Standard 62.1-2019 Space Usage	OA Requirement 1		OA Requirement 2		Direct Exhaust	
						Airflow	Units	Airflow	Units	Airflow	Units
1	2E 201	2E	865.1	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
2	2E 202 à 204	2E	1943.0	(None)	User Defined	300.0	CFM	0.00	CFM/sqft	0.0	CFM
3	2E 205	2E	845.6	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
4	2E 207 et 206	2E	1151.2	(None)	User Defined	200.0	CFM	0.00	CFM/sqft	0.0	CFM
5	2E 208	2E	972.9	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
6	2E 209	2E	661.3	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
7	2E 210 à 214	2E	3254.4	(None)	User Defined	500.0	CFM	0.00	CFM/sqft	0.0	CFM
8	2E 215 et 216	2E	1270.4	(None)	User Defined	200.0	CFM	0.00	CFM/sqft	0.0	CFM
9	2E 217	2E	862.9	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
10	2E 218 et 219	2E	1151.3	(None)	User Defined	200.0	CFM	0.00	CFM/sqft	0.0	CFM
11	2E 220	2E	839.5	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
12	2E 221 à 225	2E	3265.4	(None)	User Defined	500.0	CFM	0.00	CFM/sqft	0.0	CFM
13	2E 226	2E	573.0	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
14	2E 227	2E	852.3	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
15	2E 228	2E	593.9	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
16	2E 229	2E	991.0	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
17	2E 230 à 234	2E	3286.8	(None)	User Defined	500.0	CFM	0.00	CFM/sqft	0.0	CFM
18	2E 235	2E	844.7	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
19	2E 236 et 237	2E	1153.7	(None)	User Defined	200.0	CFM	0.00	CFM/sqft	0.0	CFM

a) Space Model REF

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Index	Space	Level	Floor Area (sqft)	Space Type	Ventilation						
					ASHRAE Standard 62.1-2019 Space Usage	OA Requirement 1		OA Requirement 2		Direct Exhaust	
						Airflow	Units	Airflow	Units	Airflow	Units
20	2E corridor	2E	3762.6	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
21	2E ESC1	2E	268.5	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
22	2E ESC2 / 2E Rang. 255	2E	357.5	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
23	2E ESC3 et 2E Rang. 254	2E	724.5	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
24	2E Hall 170	2E	660.6	(None)	User Defined	40.0	CFM	0.00	CFM/sqft	0.0	CFM
25	2E Rang. 256	2E	336.5	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
26	2E salle commune 257	2E	193.7	(None)	User Defined	37.0	CFM	0.00	CFM/sqft	0.0	CFM
27	3E 301 à 308	3E	5777.7	(None)	User Defined	800.0	CFM	0.00	CFM/sqft	0.0	CFM
28	3E 309 à 328	3E	13391.1	(None)	User Defined	2,000.0	CFM	0.00	CFM/sqft	0.0	CFM
29	3E 329 et 330	3E	1584.9	(None)	User Defined	200.0	CFM	0.00	CFM/sqft	0.0	CFM
30	3E 331 à 338	3E	5285.2	(None)	User Defined	800.0	CFM	0.00	CFM/sqft	0.0	CFM
31	3E corridor 300	3E	3768.3	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
32	3E ESC1	3E	268.5	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
33	3E ESC2 350 / 3E Rang. 355	3E	352.0	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
34	3E ESC3 / 3E Rang. 354	3E	724.5	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
35	3E Rang. 356	3E	336.6	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
36	3E salle commune 357	3E	193.7	(None)	User Defined	37.0	CFM	0.00	CFM/sqft	0.0	CFM
37	4E 401	4E	865.1	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
38	4E 402 à 404	4E	1943.0	(None)	User Defined	300.0	CFM	0.00	CFM/sqft	0.0	CFM
39	4E 405	4E	849.7	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
40	4E 406 et 407	4E	1152.0	(None)	User Defined	200.0	CFM	0.00	CFM/sqft	0.0	CFM
41	4E 408	4E	967.9	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
42	4E 409	4E	656.2	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
43	4E 410 à 417	4E	5190.3	(None)	User Defined	800.0	CFM	0.00	CFM/sqft	0.0	CFM
44	4E 418	4E	856.5	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
45	4E 419 et 420	4E	1151.4	(None)	User Defined	200.0	CFM	0.00	CFM/sqft	0.0	CFM

a) Space Model REF

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Index	Space	Level	Floor Area (sqft)	Space Type	Ventilation						
					ASHRAE Standard 62.1-2019 Space Usage	OA Requirement 1		OA Requirement 2		Direct Exhaust	
						Airflow	Units	Airflow	Units	Airflow	Units
46	4E 421	4E	847.3	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
47	4E 422 à 426	4E	3261.7	(None)	User Defined	500.0	CFM	0.00	CFM/sqft	0.0	CFM
48	4E 427	4E	575.1	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
49	4E 428	4E	852.5	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
50	4E 429	4E	591.4	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
51	4E 430	4E	993.5	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
52	4E 431 à 435	4E	3285.9	(None)	User Defined	500.0	CFM	0.00	CFM/sqft	0.0	CFM
53	4E 436	4E	856.0	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
54	4E 437 et 438	4E	1143.4	(None)	User Defined	200.0	CFM	0.00	CFM/sqft	0.0	CFM
55	4E corridor 400	4E	3765.4	(None)	RESIDENTIAL: Common corridor	0.0	CFM/person	0.06	CFM/sqft	0.0	CFM
56	4E ESC1	4E	268.5	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
57	4E ESC2 / 4E Conciergerie 455	4E	354.8	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
58	4E ESC3 / 4E Rang. 454	4E	724.5	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
59	4E Rang. 456	4E	336.6	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
60	4E salle commune 457	4E	193.7	(None)	User Defined	37.0	CFM	0.00	CFM/sqft	0.0	CFM
61	RDC 101	RDC	845.6	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
62	RDC 102 et 103	RDC	1151.2	(None)	User Defined	200.0	CFM	0.00	CFM/sqft	0.0	CFM
63	RDC 104	RDC	972.9	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
64	RDC 105	RDC	661.3	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
65	RDC 106 à 109	RDC	2602.0	(None)	User Defined	400.0	CFM	0.00	CFM/sqft	0.0	CFM
66	RDC 110 et 111	RDC	1151.3	(None)	User Defined	200.0	CFM	0.00	CFM/sqft	0.0	CFM
67	RDC 112	RDC	839.5	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
68	RDC 113 à 117	RDC	3265.4	(None)	User Defined	500.0	CFM	0.00	CFM/sqft	0.0	CFM
69	RDC 118	RDC	573.0	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
70	RDC 119	RDC	852.3	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
71	RDC 120	RDC	593.9	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
72	RDC 121	RDC	991.0	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM

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Index	Space	Level	Floor Area (sqft)	Space Type	Ventilation						
					ASHRAE Standard 62.1-2019 Space Usage	OA Requirement 1		OA Requirement 2		Direct Exhaust	
						Airflow	Units	Airflow	Units	Airflow	Units
73	RDC 122 à 126	RDC	3286.8	(None)	User Defined	500.0	CFM	0.00	CFM/sqft	0.0	CFM
74	RDC 127	RDC	844.7	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
75	RDC 128 et 129	RDC	1153.7	(None)	User Defined	200.0	CFM	0.00	CFM/sqft	0.0	CFM
76	RDC 169 / 170 / Corridor 100	RDC	2234.7	(None)	User Defined	180.0	CFM	0.00	CFM/sqft	0.0	CFM
77	RDC Atelier	RDC	661.6	(None)	User Defined	31.0	CFM/person	0.00	CFM/sqft	0.0	CFM
78	RDC Billard	RDC	863.0	(None)	User Defined	83.0	CFM/person	0.00	CFM/sqft	0.0	CFM
79	RDC Bureau 157	RDC	293.2	(None)	User Defined	293.0	CFM	0.00	CFM/sqft	0.0	CFM
80	RDC Bureau 158	RDC	166.4	(None)	User Defined	166.0	CFM	0.00	CFM/sqft	0.0	CFM
81	RDC Bureau 159	RDC	132.9	(None)	User Defined	133.0	CFM	0.00	CFM/sqft	0.0	CFM
82	RDC Bureau 160	RDC	131.3	(None)	User Defined	131.0	CFM	0.00	CFM/sqft	0.0	CFM
83	RDC Bureau 161	RDC	129.6	(None)	User Defined	130.0	CFM	0.00	CFM/sqft	0.0	CFM
84	RDC Corridor	RDC	2188.7	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
85	RDC Corridor 100	RDC	980.6	(None)	RESIDENTIAL: Common corridor	0.0	CFM/person	0.06	CFM/sqft	0.0	CFM
86	RDC Corridor 100A	RDC	205.2	(None)	RESIDENTIAL: Common corridor	0.0	CFM/person	0.06	CFM/sqft	0.0	CFM
87	RDC EAU	RDC	186.9	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
88	RDC ESC1	RDC	268.5	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
89	RDC ESC2 / RDC Conciergerie 155	RDC	354.3	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
90	RDC ESC3	RDC	251.5	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
91	RDC Méc 154	RDC	473.0	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
92	RDC Passage couvert 176	RDC	980.4	(None)	RESIDENTIAL: Common corridor	0.0	CFM/person	0.06	CFM/sqft	0.0	CFM
93	RDC Poste2 162	RDC	135.0	(None)	User Defined	135.0	CFM	0.00	CFM/sqft	0.0	CFM
94	RDC Réception1	RDC	238.7	(None)	User Defined	147.0	CFM	0.00	CFM/sqft	0.0	CFM
95	RDC salle commune 175	RDC	193.7	(None)	User Defined	37.0	CFM	0.00	CFM/sqft	0.0	CFM
96	RDC Salons résidents	RDC	1397.0	(None)	User Defined	583.0	CFM	0.00	CFM/sqft	0.0	CFM
97	RDC SOINS 167	RDC	196.0	(None)	User Defined	196.0	CFM	0.00	CFM/sqft	0.0	CFM
98	RDC Vestibule 001	RDC	161.1	(None)	RESIDENTIAL: Common corridor	0.0	CFM/person	0.06	CFM/sqft	0.0	CFM

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Index	Space	Level	Floor Area (sqft)	Space Type	Ventilation						
					ASHRAE Standard 62.1-2019 Space Usage	OA Requirement 1		OA Requirement 2		Direct Exhaust	
						Airflow	Units	Airflow	Units	Airflow	Units
99	RDC Vestibule 171	Hall/Vestibul e 170/171	264.3	(None)	RESIDENTIAL: Common corridor	0.0	CFM/person	0.06	CFM/sqft	0.0	CFM
100	RDC Vestibule100C	RDC	68.8	(None)	RESIDENTIAL: Common corridor	0.0	CFM/person	0.06	CFM/sqft	0.0	CFM

a) Space Model REF

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2.2. Overhead Lighting and Daylighting Control

Index	Space	Overhead Lighting							Daylighting Control		
		ASHRAE Standard 90.1-2019		Power	Units	Lighting Type	Schedule	Power Multi.	Control Type	Illum. Setpoint	Units
		Lighting Method	Space Usage								
1	2E 201	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
2	2E 202 à 204	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
3	2E 205	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
4	2E 207 et 206	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
5	2E 208	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
6	2E 209	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
7	2E 210 à 214	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
8	2E 215 et 216	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
9	2E 217	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
10	2E 218 et 219	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
11	2E 220	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
12	2E 221 à 225	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
13	2E 226	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
14	2E 227	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
15	2E 228	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
16	2E 229	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
17	2E 230 à 234	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
18	2E 235	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
19	2E 236 et 237	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
20	2E corridor	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
21	2E ESC1	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---

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Index	Space	Overhead Lighting							Daylighting Control		
		ASHRAE Standard 90.1-2019		Power	Units	Lighting Type	Schedule	Power Multi.	Control Type	Illum. Setpoint	Units
		Lighting Method	Space Usage								
22	2E ESC2 / 2E Rang. 255	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
23	2E ESC3 et 2E Rang. 254	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
24	2E Hall 170	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
25	2E Rang. 256	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
26	2E salle commune 257	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
27	3E 301 à 308	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
28	3E 309 à 328	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
29	3E 329 et 330	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
30	3E 331 à 338	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
31	3E corridor 300	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
32	3E ESC1	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
33	3E ESC2 350 / 3E Rang. 355	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
34	3E ESC3 / 3E Rang. 354	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
35	3E Rang. 356	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
36	3E salle commune 357	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
37	4E 401	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
38	4E 402 à 404	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
39	4E 405	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
40	4E 406 et 407	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
41	4E 408	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
42	4E 409	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
43	4E 410 à 417	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---

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Index	Space	Overhead Lighting							Daylighting Control		
		ASHRAE Standard 90.1-2019		Power	Units	Lighting Type	Schedule	Power Multi.	Control Type	Illum. Setpoint	Units
		Lighting Method	Space Usage								
44	4E 418	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
45	4E 419 et 420	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
46	4E 421	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
47	4E 422 à 426	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
48	4E 427	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
49	4E 428	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
50	4E 429	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
51	4E 430	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
52	4E 431 à 435	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
53	4E 436	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
54	4E 437 et 438	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
55	4E corridor 400	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
56	4E ESC1	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
57	4E ESC2 / 4E Conciergerie 455	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
58	4E ESC3 / 4E Rang. 454	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
59	4E Rang. 456	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
60	4E salle commune 457	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
61	RDC 101	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
62	RDC 102 et 103	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
63	RDC 104	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
64	RDC 105	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
65	RDC 106 à 109	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---

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Index	Space	Overhead Lighting							Daylighting Control		
		ASHRAE Standard 90.1-2019		Power	Units	Lighting Type	Schedule	Power Multi.	Control Type	Illum. Setpoint	Units
		Lighting Method	Space Usage								
66	RDC 110 et 111	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
67	RDC 112	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
68	RDC 113 à 117	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
69	RDC 118	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
70	RDC 119	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
71	RDC 120	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
72	RDC 121	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
73	RDC 122 à 126	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
74	RDC 127	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
75	RDC 128 et 129	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
76	RDC 169 / 170 / Corridor 100	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
77	RDC Atelier	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
78	RDC Billard	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
79	RDC Bureau 157	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
80	RDC Bureau 158	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
81	RDC Bureau 159	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
82	RDC Bureau 160	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
83	RDC Bureau 161	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
84	RDC Corridor	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
85	RDC Corridor 100	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
86	RDC Corridor 100A	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
87	RDC EAU	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---

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Index	Space	Overhead Lighting							Daylighting Control		
		ASHRAE Standard 90.1-2019		Power	Units	Lighting Type	Schedule	Power Multi.	Control Type	Illum. Setpoint	Units
		Lighting Method	Space Usage								
88	RDC ESC1	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
89	RDC ESC2 / RDC Conciergerie 155	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
90	RDC ESC3	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
91	RDC Méc 154	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
92	RDC Passage couvert 176	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
93	RDC Poste2 162	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
94	RDC Réception1	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
95	RDC salle commune 175	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
96	RDC Salons résidents	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
97	RDC SOINS 167	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
98	RDC Vestibule 001	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
99	RDC Vestibule 171	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
100	RDC Vestibule100C	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---

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2.3. Task Lighting, Electric Equipment and Miscellaneous Heat Gain

Index	Space	Task Lighting			Electric Equipment			Miscellaneous Heat Gain			
		Power	Units	Schedule	Power	Units	Schedule	Sens. (BTU/hr)	Schedule	Latent (BTU/hr)	Schedule
1	2E 201	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
2	2E 202 à 204	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
3	2E 205	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
4	2E 207 et 206	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
5	2E 208	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
6	2E 209	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
7	2E 210 à 214	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
8	2E 215 et 216	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
9	2E 217	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
10	2E 218 et 219	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
11	2E 220	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
12	2E 221 à 225	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
13	2E 226	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
14	2E 227	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
15	2E 228	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
16	2E 229	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
17	2E 230 à 234	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
18	2E 235	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
19	2E 236 et 237	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
20	2E corridor	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
21	2E ESC1	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
22	2E ESC2 / 2E Rang. 255	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
23	2E ESC3 et 2E Rang. 254	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
24	2E Hall 170	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
25	2E Rang. 256	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
26	2E salle commune 257	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)

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Index	Space	Task Lighting			Electric Equipment			Miscellaneous Heat Gain			
		Power	Units	Schedule	Power	Units	Schedule	Sens. (BTU/hr)	Schedule	Latent (BTU/hr)	Schedule
27	3E 301 à 308	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
28	3E 309 à 328	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
29	3E 329 et 330	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
30	3E 331 à 338	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
31	3E corridor 300	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
32	3E ESC1	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
33	3E ESC2 350 / 3E Rang. 355	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
34	3E ESC3 / 3E Rang. 354	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
35	3E Rang. 356	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
36	3E salle commune 357	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
37	4E 401	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
38	4E 402 à 404	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
39	4E 405	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
40	4E 406 et 407	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
41	4E 408	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
42	4E 409	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
43	4E 410 à 417	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
44	4E 418	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
45	4E 419 et 420	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
46	4E 421	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
47	4E 422 à 426	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
48	4E 427	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
49	4E 428	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
50	4E 429	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
51	4E 430	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
52	4E 431 à 435	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
53	4E 436	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)

a) Space Model REF

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Prepared by: Groupe CMI

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Index	Space	Task Lighting			Electric Equipment			Miscellaneous Heat Gain			
		Power	Units	Schedule	Power	Units	Schedule	Sens. (BTU/hr)	Schedule	Latent (BTU/hr)	Schedule
54	4E 437 et 438	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
55	4E corridor 400	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
56	4E ESC1	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
57	4E ESC2 / 4E Conciergerie 455	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
58	4E ESC3 / 4E Rang. 454	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
59	4E Rang. 456	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
60	4E salle commune 457	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
61	RDC 101	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
62	RDC 102 et 103	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
63	RDC 104	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
64	RDC 105	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
65	RDC 106 à 109	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
66	RDC 110 et 111	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
67	RDC 112	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
68	RDC 113 à 117	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
69	RDC 118	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
70	RDC 119	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
71	RDC 120	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
72	RDC 121	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
73	RDC 122 à 126	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
74	RDC 127	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
75	RDC 128 et 129	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
76	RDC 169 / 170 / Corridor 100	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
77	RDC Atelier	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
78	RDC Billard	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
79	RDC Bureau 157	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
80	RDC Bureau 158	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)

a) Space Model REF

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Index	Space	Task Lighting			Electric Equipment			Miscellaneous Heat Gain			
		Power	Units	Schedule	Power	Units	Schedule	Sens. (BTU/hr)	Schedule	Latent (BTU/hr)	Schedule
81	RDC Bureau 159	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
82	RDC Bureau 160	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
83	RDC Bureau 161	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
84	RDC Corridor	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
85	RDC Corridor 100	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
86	RDC Corridor 100A	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
87	RDC EAU	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
88	RDC ESC1	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
89	RDC ESC2 / RDC Conciergerie 155	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
90	RDC ESC3	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
91	RDC Méc 154	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
92	RDC Passage couvert 176	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
93	RDC Poste2 162	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
94	RDC Réception1	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
95	RDC salle commune 175	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
96	RDC Salons résidents	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
97	RDC SOINS 167	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
98	RDC Vestibule 001	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
99	RDC Vestibule 171	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
100	RDC Vestibule100C	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)

a) Space Model REF

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2.4. Occupancy and Infiltration

Index	Space	Occupants						Infiltration				
		Occupancy	Units	Schedule	Activity Level	Sens. (BTU/hr/person)	Latent (BTU/hr/person)	Constant Cooling Airflow	Constant Heating Airflow	Constant Simulation Airflow	Units	Occurs
1	2E 201	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
2	2E 202 à 204	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
3	2E 205	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
4	2E 207 et 206	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
5	2E 208	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
6	2E 209	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
7	2E 210 à 214	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
8	2E 215 et 216	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
9	2E 217	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
10	2E 218 et 219	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
11	2E 220	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
12	2E 221 à 225	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
13	2E 226	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
14	2E 227	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
15	2E 228	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
16	2E 229	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
17	2E 230 à 234	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
18	2E 235	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
19	2E 236 et 237	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
20	2E corridor	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
21	2E ESC1	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
22	2E ESC2 / 2E Rang. 255	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
23	2E ESC3 et 2E Rang. 254	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
24	2E Hall 170	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
25	2E Rang. 256	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied

a) Space Model REF

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Index	Space	Occupants						Infiltration				
		Occupancy	Units	Schedule	Activity Level	Sens. (BTU/hr/person)	Latent (BTU/hr/person)	Constant Cooling Airflow	Constant Heating Airflow	Constant Simulation Airflow	Units	Occurs
26	2E salle commune 257	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
27	3E 301 à 308	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
28	3E 309 à 328	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
29	3E 329 et 330	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
30	3E 331 à 338	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
31	3E corridor 300	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
32	3E ESC1	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
33	3E ESC2 350 / 3E Rang. 355	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
34	3E ESC3 / 3E Rang. 354	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
35	3E Rang. 356	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
36	3E salle commune 357	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
37	4E 401	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
38	4E 402 à 404	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
39	4E 405	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
40	4E 406 et 407	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
41	4E 408	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
42	4E 409	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
43	4E 410 à 417	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
44	4E 418	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
45	4E 419 et 420	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
46	4E 421	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
47	4E 422 à 426	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
48	4E 427	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
49	4E 428	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
50	4E 429	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
51	4E 430	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
52	4E 431 à 435	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours

a) Space Model REF

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Index	Space	Occupants						Infiltration				
		Occupancy	Units	Schedule	Activity Level	Sens. (BTU/hr/person)	Latent (BTU/hr/person)	Constant Cooling Airflow	Constant Heating Airflow	Constant Simulation Airflow	Units	Occurs
53	4E 436	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
54	4E 437 et 438	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
55	4E corridor 400	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
56	4E ESC1	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
57	4E ESC2 / 4E Conciergerie 455	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
58	4E ESC3 / 4E Rang. 454	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
59	4E Rang. 456	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
60	4E salle commune 457	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
61	RDC 101	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
62	RDC 102 et 103	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
63	RDC 104	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
64	RDC 105	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
65	RDC 106 à 109	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
66	RDC 110 et 111	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
67	RDC 112	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
68	RDC 113 à 117	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
69	RDC 118	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
70	RDC 119	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
71	RDC 120	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
72	RDC 121	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
73	RDC 122 à 126	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
74	RDC 127	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
75	RDC 128 et 129	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
76	RDC 169 / 170 / Corridor 100	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
77	RDC Atelier	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
78	RDC Billard	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
79	RDC Bureau 157	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours

a) Space Model REF

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Index	Space	Occupants						Infiltration				
		Occupancy	Units	Schedule	Activity Level	Sens. (BTU/hr/person)	Latent (BTU/hr/person)	Constant Cooling Airflow	Constant Heating Airflow	Constant Simulation Airflow	Units	Occurs
80	RDC Bureau 158	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
81	RDC Bureau 159	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
82	RDC Bureau 160	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
83	RDC Bureau 161	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
84	RDC Corridor	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
85	RDC Corridor 100	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
86	RDC Corridor 100A	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
87	RDC EAU	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
88	RDC ESC1	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
89	RDC ESC2 / RDC Conciergerie 155	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
90	RDC ESC3	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
91	RDC Méc 154	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
92	RDC Passage couvert 176	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
93	RDC Poste2 162	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
94	RDC Réception1	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
95	RDC salle commune 175	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
96	RDC Salons résidents	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
97	RDC SOINS 167	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
98	RDC Vestibule 001	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
99	RDC Vestibule 171	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
100	RDC Vestibule100C	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours

a) Space Model REF

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3. Zoning

Zone	Space	Level
2E 201		
	2E 201	2E
2E 202 à 204		
	2E 202 à 204	2E
2E 205		
	2E 205	2E
2E 207 et 206		
	2E 207 et 206	2E
2E 208		
	2E 208	2E
2E 209		
	2E 209	2E
2E 210 à 214		
	2E 210 à 214	2E
2E 215 et 216		
	2E 215 et 216	2E
2E 217		
	2E 217	2E
2E 218 et 219		
	2E 218 et 219	2E
2E 220		
	2E 220	2E
2E 221 à 225		
	2E 221 à 225	2E
2E 226		
	2E 226	2E
2E 227		

a) Space Model REF

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Zone	Space	Level
	2E 227	2E
2E 228		
	2E 228	2E
2E 229		
	2E 229	2E
2E 230 à 234		
	2E 230 à 234	2E
2E 235		
	2E 235	2E
2E 236 et 237		
	2E 236 et 237	2E
2E corridor		
	2E corridor	2E
2E ESC1		
	2E ESC1	2E
2E ESC2 / 2E Rang. 255		
	2E ESC2 / 2E Rang. 255	2E
2E ESC3 et 2E Rang. 254		
	2E ESC3 et 2E Rang. 254	2E
2E Hall 170		
	2E Hall 170	2E
2E Rang. 256		
	2E Rang. 256	2E
2E salle commune 257		
	2E salle commune 257	2E
3E 301 à 308		
	3E 301 à 308	3E
3E 309 à 328		
	3E 309 à 328	3E

a) Space Model REF

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Zone	Space	Level
3E 329 et 330		
	3E 329 et 330	3E
3E 331 à 338		
	3E 331 à 338	3E
3E corridor 300		
	3E corridor 300	3E
3E ESC1		
	3E ESC1	3E
3E ESC2 350 / 3E Rang. 355		
	3E ESC2 350 / 3E Rang. 355	3E
3E ESC3 / 3E Rang. 354		
	3E ESC3 / 3E Rang. 354	3E
3E Rang. 356		
	3E Rang. 356	3E
3E salle commune 357		
	3E salle commune 357	3E
4E 401		
	4E 401	4E
4E 402 à 404		
	4E 402 à 404	4E
4E 405		
	4E 405	4E
4E 406 et 407		
	4E 406 et 407	4E
4E 408		
	4E 408	4E
4E 409		
	4E 409	4E
4E 410 à 417		

a) Space Model REF

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Zone	Space	Level
	4E 410 à 417	4E
4E 418		
	4E 418	4E
4E 419 et 420		
	4E 419 et 420	4E
4E 421		
	4E 421	4E
4E 422 à 426		
	4E 422 à 426	4E
4E 427		
	4E 427	4E
4E 428		
	4E 428	4E
4E 429		
	4E 429	4E
4E 430		
	4E 430	4E
4E 431 à 435		
	4E 431 à 435	4E
4E 436		
	4E 436	4E
4E 437 et 438		
	4E 437 et 438	4E
4E corridor 400		
	4E corridor 400	4E
4E ESC1		
	4E ESC1	4E
4E ESC2 / 4E Conciergerie 455		
	4E ESC2 / 4E Conciergerie 455	4E

a) Space Model REF

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Zone	Space	Level
4E ESC3 / 4E Rang. 454		
	4E ESC3 / 4E Rang. 454	4E
4E Rang. 456		
	4E Rang. 456	4E
4E salle commune 457		
	4E salle commune 457	4E
RDC 101		
	RDC 101	RDC
RDC 102 et 103		
	RDC 102 et 103	RDC
RDC 104		
	RDC 104	RDC
RDC 105		
	RDC 105	RDC
RDC 106 à 109		
	RDC 106 à 109	RDC
RDC 110 et 111		
	RDC 110 et 111	RDC
RDC 112		
	RDC 112	RDC
RDC 113 à 117		
	RDC 113 à 117	RDC
RDC 118		
	RDC 118	RDC
RDC 119		
	RDC 119	RDC
RDC 120		
	RDC 120	RDC
RDC 121		

a) Space Model REF

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Zone	Space	Level
	RDC 121	RDC
RDC 122 à 126		
	RDC 122 à 126	RDC
RDC 127		
	RDC 127	RDC
RDC 128 et 129		
	RDC 128 et 129	RDC
RDC 169 / 170 / Corridor 100		
	RDC 169 / 170 / Corridor 100	RDC
RDC Atelier		
	RDC Atelier	RDC
RDC Billard		
	RDC Billard	RDC
RDC Bureau 157		
	RDC Bureau 157	RDC
RDC Bureau 158		
	RDC Bureau 158	RDC
RDC Bureau 159		
	RDC Bureau 159	RDC
RDC Bureau 160		
	RDC Bureau 160	RDC
RDC Bureau 161		
	RDC Bureau 161	RDC
RDC Corridor		
	RDC Corridor	RDC
RDC Corridor 100		
	RDC Corridor 100	RDC
RDC Corridor 100A		
	RDC Corridor 100A	RDC

a) Space Model REF

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Zone	Space	Level
RDC EAU		
	RDC EAU	RDC
RDC ESC1		
	RDC ESC1	RDC
RDC ESC2 / RDC Conciergerie 155		
	RDC ESC2 / RDC Conciergerie 155	RDC
RDC ESC3		
	RDC ESC3	RDC
RDC Hall/Vestibule 170/171		
	RDC Vestibule 171	Hall/Vestibule 170/171
RDC Méc 154		
	RDC Méc 154	RDC
RDC Passage couvert 176		
	RDC Passage couvert 176	RDC
RDC Poste2 162		
	RDC Poste2 162	RDC
RDC Réception1		
	RDC Réception1	RDC
RDC salle commune 175		
	RDC salle commune 175	RDC
RDC Salons résidents		
	RDC Salons résidents	RDC
RDC SOINS 167		
	RDC SOINS 167	RDC
RDC Vestibule 001		
	RDC Vestibule 001	RDC
RDC Vestibule100C		
	RDC Vestibule100C	RDC
Unconditioned (no spaces)		

a) Space Model REF

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Zone	Space	Level
	Unassigned (no spaces)	

4. Assemblies

Category	Surface Group	Selected Assembly
Exterior Above Grade Wall		
	Default	R=24.5
Interior Wall		
	Default	Default Wall
Roof		
	Default	R=41
Ceiling		
	Interior Ceilings	Default Ceiling
Floor Above Space		
	Interior Floors Above Space	Default Floor
Slab Floor On Grade		
	At-Grade Floors	R=10

a) Space Model REF

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5. Windows & Doors

Category	Tag	Width x Height, Elevation	Selected Assembly
Window			
	F-01	3' x 5' 6" , 1' 8"	U=0.3 SHGC=0.35
	F-02	5' x 5' 6" , 1' 8"	U=0.3 SHGC=0.35
	F-03	6' x 5' 6" , 1' 8"	U=0.3 SHGC=0.35
	F-04	9' x 5' 6" , 1' 8"	U=0.3 SHGC=0.35
	MR-01	5' 8" x 6' 8" , 11' 10"	U=0.3 SHGC=0.35
	MR-02	6' 6 3/4" x 6' 8" , 11' 10"	U=0.3 SHGC=0.35
	MR-03	6' 9" x 6' 8" , 11' 10"	U=0.3 SHGC=0.35
	MR-04	5' 8" x 11' 8" , 0'	U=0.3 SHGC=0.35
	MR-05	6' 9" x 11' 8" , 0'	U=0.3 SHGC=0.35
	MR-07	5' 6" x 8' 6" , 0'	U=0.3 SHGC=0.35
	MR-09	8' 6" x 8' 6" , 0'	U=0.3 SHGC=0.35
	MR-10	13' x 7' 3 1/2" , 0'	U=0.3 SHGC=0.35
Door			
	MR-06 avec porte	6' 6 3/4" x 11' 8"	U=0.3 SHGC=0.35
	MR-08	5' 6" x 8' 6"	U=0.3 SHGC=0.35
	MR-11	10' 2 1/4" x 7' 3 1/2"	U=0.3 SHGC=0.35
	PG 165B	8' x 7'	Default Door
	PO Standard	3' x 7'	Default Door
	PP-01	7' x 6' 9 1/4"	U=0.3 SHGC=0.35
	PV standard	3' x 7'	U=0.3 SHGC=0.35

ASHRAE 90.1 Vertical Glazing Summary:

Total Window Opening Glazing Area 7056.6 sqft
Total Door Opening Glazing Area 6992.2 sqft
Total Gross Above Grade Wall Area 61349.2 sqft
Window-to-wall Ratio (WWR) 22.9 %

b) Space Model CPT

Project: 25845 142 logements Jardins de la Yamaska St-Hyacinthe
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1. General Information

Space Model b) Space Model CPT
Building building1
Infiltration Model Constant Infiltration
Notes:

2. Spaces

The space model contains 100 spaces with total floor area of 127,988 sqft.

2.1. Ventilation

Index	Space	Level	Floor Area (sqft)	Space Type	Ventilation						
					ASHRAE Standard 62.1-2019 Space Usage	OA Requirement 1		OA Requirement 2		Direct Exhaust	
						Airflow	Units	Airflow	Units	Airflow	Units
1	2E 201	2E	865.1	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
2	2E 202 à 204	2E	1943.0	(None)	User Defined	300.0	CFM	0.00	CFM/sqft	0.0	CFM
3	2E 205	2E	845.6	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
4	2E 207 et 206	2E	1151.2	(None)	User Defined	200.0	CFM	0.00	CFM/sqft	0.0	CFM
5	2E 208	2E	972.9	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
6	2E 209	2E	661.3	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
7	2E 210 à 214	2E	3254.4	(None)	User Defined	500.0	CFM	0.00	CFM/sqft	0.0	CFM
8	2E 215 et 216	2E	1270.4	(None)	User Defined	200.0	CFM	0.00	CFM/sqft	0.0	CFM
9	2E 217	2E	862.9	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
10	2E 218 et 219	2E	1151.3	(None)	User Defined	200.0	CFM	0.00	CFM/sqft	0.0	CFM
11	2E 220	2E	839.5	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
12	2E 221 à 225	2E	3265.4	(None)	User Defined	500.0	CFM	0.00	CFM/sqft	0.0	CFM
13	2E 226	2E	573.0	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
14	2E 227	2E	852.3	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
15	2E 228	2E	593.9	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
16	2E 229	2E	991.0	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
17	2E 230 à 234	2E	3286.8	(None)	User Defined	500.0	CFM	0.00	CFM/sqft	0.0	CFM

b) Space Model CPT

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Index	Space	Level	Floor Area (sqft)	Space Type	Ventilation						
					ASHRAE Standard 62.1-2019 Space Usage	OA Requirement 1		OA Requirement 2		Direct Exhaust	
						Airflow	Units	Airflow	Units	Airflow	Units
18	2E 235	2E	844.7	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
19	2E 236 et 237	2E	1153.7	(None)	User Defined	200.0	CFM	0.00	CFM/sqft	0.0	CFM
20	2E corridor	2E	3762.6	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
21	2E ESC1	2E	268.5	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
22	2E ESC2 / 2E Rang. 255	2E	357.5	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
23	2E ESC3 et 2E Rang. 254	2E	724.5	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
24	2E Hall 170	2E	660.6	(None)	User Defined	40.0	CFM	0.00	CFM/sqft	0.0	CFM
25	2E Rang. 256	2E	336.5	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
26	2E salle commune 257	2E	193.7	(None)	User Defined	37.0	CFM	0.00	CFM/sqft	0.0	CFM
27	3E 301 à 308	3E	5777.7	(None)	User Defined	800.0	CFM	0.00	CFM/sqft	0.0	CFM
28	3E 309 à 328	3E	13391.1	(None)	User Defined	2,000.0	CFM	0.00	CFM/sqft	0.0	CFM
29	3E 329 et 330	3E	1584.9	(None)	User Defined	200.0	CFM	0.00	CFM/sqft	0.0	CFM
30	3E 331 à 338	3E	5285.2	(None)	User Defined	800.0	CFM	0.00	CFM/sqft	0.0	CFM
31	3E corridor 300	3E	3768.3	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
32	3E ESC1	3E	268.5	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
33	3E ESC2 350 / 3E Rang. 355	3E	352.0	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
34	3E ESC3 / 3E Rang. 354	3E	724.5	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
35	3E Rang. 356	3E	336.6	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
36	3E salle commune 357	3E	193.7	(None)	User Defined	37.0	CFM	0.00	CFM/sqft	0.0	CFM
37	4E 401	4E	865.1	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
38	4E 402 à 404	4E	1943.0	(None)	User Defined	300.0	CFM	0.00	CFM/sqft	0.0	CFM
39	4E 405	4E	849.7	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
40	4E 406 et 407	4E	1152.0	(None)	User Defined	200.0	CFM	0.00	CFM/sqft	0.0	CFM
41	4E 408	4E	967.9	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
42	4E 409	4E	656.2	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
43	4E 410 à 417	4E	5190.3	(None)	User Defined	800.0	CFM	0.00	CFM/sqft	0.0	CFM

b) Space Model CPT

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Index	Space	Level	Floor Area (sqft)	Space Type	Ventilation						
					ASHRAE Standard 62.1-2019 Space Usage	OA Requirement 1		OA Requirement 2		Direct Exhaust	
						Airflow	Units	Airflow	Units	Airflow	Units
44	4E 418	4E	856.5	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
45	4E 419 et 420	4E	1151.4	(None)	User Defined	200.0	CFM	0.00	CFM/sqft	0.0	CFM
46	4E 421	4E	847.3	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
47	4E 422 à 426	4E	3261.7	(None)	User Defined	500.0	CFM	0.00	CFM/sqft	0.0	CFM
48	4E 427	4E	575.1	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
49	4E 428	4E	852.5	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
50	4E 429	4E	591.4	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
51	4E 430	4E	993.5	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
52	4E 431 à 435	4E	3285.9	(None)	User Defined	500.0	CFM	0.00	CFM/sqft	0.0	CFM
53	4E 436	4E	856.0	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
54	4E 437 et 438	4E	1143.4	(None)	User Defined	200.0	CFM	0.00	CFM/sqft	0.0	CFM
55	4E corridor 400	4E	3765.4	(None)	RESIDENTIAL: Common corridor	0.0	CFM/person	0.06	CFM/sqft	0.0	CFM
56	4E ESC1	4E	268.5	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
57	4E ESC2 / 4E Conciergerie 455	4E	354.8	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
58	4E ESC3 / 4E Rang. 454	4E	724.5	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
59	4E Rang. 456	4E	336.6	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
60	4E salle commune 457	4E	193.7	(None)	User Defined	37.0	CFM	0.00	CFM/sqft	0.0	CFM
61	RDC 101	RDC	845.6	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
62	RDC 102 et 103	RDC	1151.2	(None)	User Defined	200.0	CFM	0.00	CFM/sqft	0.0	CFM
63	RDC 104	RDC	972.9	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
64	RDC 105	RDC	661.3	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
65	RDC 106 à 109	RDC	2602.0	(None)	User Defined	400.0	CFM	0.00	CFM/sqft	0.0	CFM
66	RDC 110 et 111	RDC	1151.3	(None)	User Defined	200.0	CFM	0.00	CFM/sqft	0.0	CFM
67	RDC 112	RDC	839.5	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
68	RDC 113 à 117	RDC	3265.4	(None)	User Defined	500.0	CFM	0.00	CFM/sqft	0.0	CFM
69	RDC 118	RDC	573.0	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
70	RDC 119	RDC	852.3	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM

b) Space Model CPT

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Index	Space	Level	Floor Area (sqft)	Space Type	Ventilation						
					ASHRAE Standard 62.1-2019 Space Usage	OA Requirement 1		OA Requirement 2		Direct Exhaust	
						Airflow	Units	Airflow	Units	Airflow	Units
71	RDC 120	RDC	593.9	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
72	RDC 121	RDC	991.0	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
73	RDC 122 à 126	RDC	3286.8	(None)	User Defined	500.0	CFM	0.00	CFM/sqft	0.0	CFM
74	RDC 127	RDC	844.7	(None)	User Defined	100.0	CFM	0.00	CFM/sqft	0.0	CFM
75	RDC 128 et 129	RDC	1153.7	(None)	User Defined	200.0	CFM	0.00	CFM/sqft	0.0	CFM
76	RDC 169 / 170 / Corridor 100	RDC	2234.7	(None)	User Defined	180.0	CFM	0.00	CFM/sqft	0.0	CFM
77	RDC Atelier	RDC	661.6	(None)	User Defined	31.0	CFM/person	0.00	CFM/sqft	0.0	CFM
78	RDC Billard	RDC	863.0	(None)	User Defined	83.0	CFM/person	0.00	CFM/sqft	0.0	CFM
79	RDC Bureau 157	RDC	293.2	(None)	User Defined	293.0	CFM	0.00	CFM/sqft	0.0	CFM
80	RDC Bureau 158	RDC	166.4	(None)	User Defined	166.0	CFM	0.00	CFM/sqft	0.0	CFM
81	RDC Bureau 159	RDC	132.9	(None)	User Defined	133.0	CFM	0.00	CFM/sqft	0.0	CFM
82	RDC Bureau 160	RDC	131.3	(None)	User Defined	131.0	CFM	0.00	CFM/sqft	0.0	CFM
83	RDC Bureau 161	RDC	129.6	(None)	User Defined	130.0	CFM	0.00	CFM/sqft	0.0	CFM
84	RDC Corridor	RDC	2188.7	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
85	RDC Corridor 100	RDC	980.6	(None)	RESIDENTIAL: Common corridor	0.0	CFM/person	0.06	CFM/sqft	0.0	CFM
86	RDC Corridor 100A	RDC	205.2	(None)	RESIDENTIAL: Common corridor	0.0	CFM/person	0.06	CFM/sqft	0.0	CFM
87	RDC EAU	RDC	186.9	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
88	RDC ESC1	RDC	268.5	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
89	RDC ESC2 / RDC Conciergerie 155	RDC	354.3	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
90	RDC ESC3	RDC	251.5	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
91	RDC Méc 154	RDC	473.0	(None)	User Defined	0.0	CFM/person	0.00	CFM/sqft	0.0	CFM
92	RDC Passage couvert 176	RDC	980.4	(None)	RESIDENTIAL: Common corridor	0.0	CFM/person	0.06	CFM/sqft	0.0	CFM
93	RDC Poste2 162	RDC	135.0	(None)	User Defined	135.0	CFM	0.00	CFM/sqft	0.0	CFM
94	RDC Réception1	RDC	238.7	(None)	User Defined	147.0	CFM	0.00	CFM/sqft	0.0	CFM
95	RDC salle commune 175	RDC	193.7	(None)	User Defined	37.0	CFM	0.00	CFM/sqft	0.0	CFM
96	RDC Salons résidents	RDC	1397.0	(None)	User Defined	583.0	CFM	0.00	CFM/sqft	0.0	CFM

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Index	Space	Level	Floor Area (sqft)	Space Type	Ventilation						
					ASHRAE Standard 62.1-2019 Space Usage	OA Requirement 1		OA Requirement 2		Direct Exhaust	
						Airflow	Units	Airflow	Units	Airflow	Units
97	RDC SOINS 167	RDC	196.0	(None)	User Defined	196.0	CFM	0.00	CFM/sqft	0.0	CFM
98	RDC Vestibule 001	RDC	161.1	(None)	RESIDENTIAL: Common corridor	0.0	CFM/person	0.06	CFM/sqft	0.0	CFM
99	RDC Vestibule 171	Hall/Vestibul e 170/171	264.3	(None)	RESIDENTIAL: Common corridor	0.0	CFM/person	0.06	CFM/sqft	0.0	CFM
100	RDC Vestibule100C	RDC	68.8	(None)	RESIDENTIAL: Common corridor	0.0	CFM/person	0.06	CFM/sqft	0.0	CFM

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2.2. Overhead Lighting and Daylighting Control

Index	Space	Overhead Lighting							Daylighting Control		
		ASHRAE Standard 90.1-2019		Power	Units	Lighting Type	Schedule	Power Multi.	Control Type	Illum. Setpoint	Units
		Lighting Method	Space Usage								
1	2E 201	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
2	2E 202 à 204	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
3	2E 205	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
4	2E 207 et 206	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
5	2E 208	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
6	2E 209	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
7	2E 210 à 214	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
8	2E 215 et 216	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
9	2E 217	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
10	2E 218 et 219	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
11	2E 220	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
12	2E 221 à 225	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
13	2E 226	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
14	2E 227	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
15	2E 228	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
16	2E 229	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
17	2E 230 à 234	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
18	2E 235	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
19	2E 236 et 237	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
20	2E corridor	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
21	2E ESC1	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---

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Index	Space	Overhead Lighting							Daylighting Control		
		ASHRAE Standard 90.1-2019		Power	Units	Lighting Type	Schedule	Power Multi.	Control Type	Illum. Setpoint	Units
		Lighting Method	Space Usage								
22	2E ESC2 / 2E Rang. 255	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
23	2E ESC3 et 2E Rang. 254	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
24	2E Hall 170	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
25	2E Rang. 256	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
26	2E salle commune 257	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
27	3E 301 à 308	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
28	3E 309 à 328	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
29	3E 329 et 330	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
30	3E 331 à 338	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
31	3E corridor 300	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
32	3E ESC1	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
33	3E ESC2 350 / 3E Rang. 355	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
34	3E ESC3 / 3E Rang. 354	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
35	3E Rang. 356	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
36	3E salle commune 357	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
37	4E 401	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
38	4E 402 à 404	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
39	4E 405	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
40	4E 406 et 407	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
41	4E 408	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
42	4E 409	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
43	4E 410 à 417	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---

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Index	Space	Overhead Lighting							Daylighting Control		
		ASHRAE Standard 90.1-2019		Power	Units	Lighting Type	Schedule	Power Multi.	Control Type	Illum. Setpoint	Units
		Lighting Method	Space Usage								
44	4E 418	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
45	4E 419 et 420	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
46	4E 421	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
47	4E 422 à 426	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
48	4E 427	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
49	4E 428	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
50	4E 429	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
51	4E 430	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
52	4E 431 à 435	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
53	4E 436	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
54	4E 437 et 438	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
55	4E corridor 400	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
56	4E ESC1	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
57	4E ESC2 / 4E Conciergerie 455	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
58	4E ESC3 / 4E Rang. 454	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
59	4E Rang. 456	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
60	4E salle commune 457	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
61	RDC 101	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
62	RDC 102 et 103	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
63	RDC 104	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
64	RDC 105	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
65	RDC 106 à 109	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---

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Index	Space	Overhead Lighting							Daylighting Control		
		ASHRAE Standard 90.1-2019		Power	Units	Lighting Type	Schedule	Power Multi.	Control Type	Illum. Setpoint	Units
		Lighting Method	Space Usage								
66	RDC 110 et 111	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
67	RDC 112	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
68	RDC 113 à 117	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
69	RDC 118	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
70	RDC 119	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
71	RDC 120	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
72	RDC 121	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
73	RDC 122 à 126	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
74	RDC 127	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
75	RDC 128 et 129	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
76	RDC 169 / 170 / Corridor 100	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
77	RDC Atelier	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
78	RDC Billard	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
79	RDC Bureau 157	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
80	RDC Bureau 158	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
81	RDC Bureau 159	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
82	RDC Bureau 160	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
83	RDC Bureau 161	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
84	RDC Corridor	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
85	RDC Corridor 100	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
86	RDC Corridor 100A	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
87	RDC EAU	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---

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Index	Space	Overhead Lighting							Daylighting Control		
		ASHRAE Standard 90.1-2019		Power	Units	Lighting Type	Schedule	Power Multi.	Control Type	Illum. Setpoint	Units
		Lighting Method	Space Usage								
88	RDC ESC1	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
89	RDC ESC2 / RDC Conciergerie 155	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
90	RDC ESC3	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
91	RDC Méc 154	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
92	RDC Passage couvert 176	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
93	RDC Poste2 162	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
94	RDC Réception1	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
95	RDC salle commune 175	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
96	RDC Salons résidents	Building Area	User Defined	0.00	W/sqft	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
97	RDC SOINS 167	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
98	RDC Vestibule 001	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
99	RDC Vestibule 171	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---
100	RDC Vestibule100C	Building Area	User Defined	0.0	Watts	Fluorescent: Recessed, no Lens, Unvented	(None)	1.00	Not Used	---	---

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2.3. Task Lighting, Electric Equipment and Miscellaneous Heat Gain

Index	Space	Task Lighting			Electric Equipment			Miscellaneous Heat Gain			
		Power	Units	Schedule	Power	Units	Schedule	Sens. (BTU/hr)	Schedule	Latent (BTU/hr)	Schedule
1	2E 201	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
2	2E 202 à 204	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
3	2E 205	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
4	2E 207 et 206	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
5	2E 208	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
6	2E 209	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
7	2E 210 à 214	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
8	2E 215 et 216	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
9	2E 217	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
10	2E 218 et 219	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
11	2E 220	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
12	2E 221 à 225	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
13	2E 226	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
14	2E 227	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
15	2E 228	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
16	2E 229	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
17	2E 230 à 234	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
18	2E 235	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
19	2E 236 et 237	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
20	2E corridor	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
21	2E ESC1	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
22	2E ESC2 / 2E Rang. 255	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
23	2E ESC3 et 2E Rang. 254	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
24	2E Hall 170	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
25	2E Rang. 256	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
26	2E salle commune 257	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)

b) Space Model CPT

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Index	Space	Task Lighting			Electric Equipment			Miscellaneous Heat Gain			
		Power	Units	Schedule	Power	Units	Schedule	Sens. (BTU/hr)	Schedule	Latent (BTU/hr)	Schedule
27	3E 301 à 308	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
28	3E 309 à 328	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
29	3E 329 et 330	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
30	3E 331 à 338	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
31	3E corridor 300	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
32	3E ESC1	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
33	3E ESC2 350 / 3E Rang. 355	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
34	3E ESC3 / 3E Rang. 354	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
35	3E Rang. 356	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
36	3E salle commune 357	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
37	4E 401	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
38	4E 402 à 404	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
39	4E 405	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
40	4E 406 et 407	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
41	4E 408	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
42	4E 409	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
43	4E 410 à 417	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
44	4E 418	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
45	4E 419 et 420	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
46	4E 421	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
47	4E 422 à 426	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
48	4E 427	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
49	4E 428	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
50	4E 429	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
51	4E 430	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
52	4E 431 à 435	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
53	4E 436	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)

b) Space Model CPT

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Index	Space	Task Lighting			Electric Equipment			Miscellaneous Heat Gain			
		Power	Units	Schedule	Power	Units	Schedule	Sens. (BTU/hr)	Schedule	Latent (BTU/hr)	Schedule
54	4E 437 et 438	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
55	4E corridor 400	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
56	4E ESC1	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
57	4E ESC2 / 4E Conciergerie 455	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
58	4E ESC3 / 4E Rang. 454	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
59	4E Rang. 456	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
60	4E salle commune 457	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
61	RDC 101	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
62	RDC 102 et 103	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
63	RDC 104	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
64	RDC 105	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
65	RDC 106 à 109	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
66	RDC 110 et 111	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
67	RDC 112	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
68	RDC 113 à 117	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
69	RDC 118	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
70	RDC 119	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
71	RDC 120	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
72	RDC 121	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
73	RDC 122 à 126	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
74	RDC 127	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
75	RDC 128 et 129	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
76	RDC 169 / 170 / Corridor 100	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
77	RDC Atelier	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
78	RDC Billard	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
79	RDC Bureau 157	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
80	RDC Bureau 158	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)

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Index	Space	Task Lighting			Electric Equipment			Miscellaneous Heat Gain			
		Power	Units	Schedule	Power	Units	Schedule	Sens. (BTU/hr)	Schedule	Latent (BTU/hr)	Schedule
81	RDC Bureau 159	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
82	RDC Bureau 160	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
83	RDC Bureau 161	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
84	RDC Corridor	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
85	RDC Corridor 100	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
86	RDC Corridor 100A	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
87	RDC EAU	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
88	RDC ESC1	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
89	RDC ESC2 / RDC Conciergerie 155	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
90	RDC ESC3	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
91	RDC Méc 154	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
92	RDC Passage couvert 176	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
93	RDC Poste2 162	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
94	RDC Réception1	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
95	RDC salle commune 175	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
96	RDC Salons résidents	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
97	RDC SOINS 167	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
98	RDC Vestibule 001	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
99	RDC Vestibule 171	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)
100	RDC Vestibule100C	0.00	W/sqft	(None)	0.00	W/sqft	(None)	0	(None)	0	(None)

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2.4. Occupancy and Infiltration

Index	Space	Occupants						Infiltration				
		Occupancy	Units	Schedule	Activity Level	Sens. (BTU/hr/person)	Latent (BTU/hr/person)	Constant Cooling Airflow	Constant Heating Airflow	Constant Simulation Airflow	Units	Occurs
1	2E 201	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
2	2E 202 à 204	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
3	2E 205	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
4	2E 207 et 206	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
5	2E 208	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
6	2E 209	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
7	2E 210 à 214	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
8	2E 215 et 216	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
9	2E 217	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
10	2E 218 et 219	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
11	2E 220	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
12	2E 221 à 225	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
13	2E 226	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
14	2E 227	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
15	2E 228	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
16	2E 229	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
17	2E 230 à 234	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
18	2E 235	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
19	2E 236 et 237	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
20	2E corridor	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
21	2E ESC1	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
22	2E ESC2 / 2E Rang. 255	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
23	2E ESC3 et 2E Rang. 254	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
24	2E Hall 170	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
25	2E Rang. 256	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied

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Index	Space	Occupants						Infiltration				
		Occupancy	Units	Schedule	Activity Level	Sens. (BTU/hr/person)	Latent (BTU/hr/person)	Constant Cooling Airflow	Constant Heating Airflow	Constant Simulation Airflow	Units	Occurs
26	2E salle commune 257	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
27	3E 301 à 308	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
28	3E 309 à 328	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
29	3E 329 et 330	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
30	3E 331 à 338	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
31	3E corridor 300	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
32	3E ESC1	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
33	3E ESC2 350 / 3E Rang. 355	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
34	3E ESC3 / 3E Rang. 354	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
35	3E Rang. 356	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
36	3E salle commune 357	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
37	4E 401	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
38	4E 402 à 404	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
39	4E 405	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
40	4E 406 et 407	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
41	4E 408	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
42	4E 409	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
43	4E 410 à 417	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
44	4E 418	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
45	4E 419 et 420	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
46	4E 421	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
47	4E 422 à 426	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
48	4E 427	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
49	4E 428	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
50	4E 429	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
51	4E 430	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
52	4E 431 à 435	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours

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Index	Space	Occupants						Infiltration				
		Occupancy	Units	Schedule	Activity Level	Sens. (BTU/hr/person)	Latent (BTU/hr/person)	Constant Cooling Airflow	Constant Heating Airflow	Constant Simulation Airflow	Units	Occurs
53	4E 436	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
54	4E 437 et 438	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
55	4E corridor 400	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
56	4E ESC1	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
57	4E ESC2 / 4E Conciergerie 455	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
58	4E ESC3 / 4E Rang. 454	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
59	4E Rang. 456	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
60	4E salle commune 457	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
61	RDC 101	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
62	RDC 102 et 103	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
63	RDC 104	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
64	RDC 105	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
65	RDC 106 à 109	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
66	RDC 110 et 111	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
67	RDC 112	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
68	RDC 113 à 117	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
69	RDC 118	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
70	RDC 119	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
71	RDC 120	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
72	RDC 121	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
73	RDC 122 à 126	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
74	RDC 127	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
75	RDC 128 et 129	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
76	RDC 169 / 170 / Corridor 100	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
77	RDC Atelier	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
78	RDC Billard	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
79	RDC Bureau 157	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours

b) Space Model CPT

Project: 25845 142 logements Jardins de la Yamaska St-Hyacinthe

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Index	Space	Occupants						Infiltration				
		Occupancy	Units	Schedule	Activity Level	Sens. (BTU/hr/person)	Latent (BTU/hr/person)	Constant Cooling Airflow	Constant Heating Airflow	Constant Simulation Airflow	Units	Occurs
80	RDC Bureau 158	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
81	RDC Bureau 159	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
82	RDC Bureau 160	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
83	RDC Bureau 161	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
84	RDC Corridor	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
85	RDC Corridor 100	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
86	RDC Corridor 100A	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
87	RDC EAU	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
88	RDC ESC1	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
89	RDC ESC2 / RDC Conciergerie 155	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
90	RDC ESC3	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
91	RDC Méc 154	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
92	RDC Passage couvert 176	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
93	RDC Poste2 162	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
94	RDC Réception1	0	People	(None)	User Defined	245.0	205.0	0.0	0.0	0.0	CFM	Unoccupied
95	RDC salle commune 175	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
96	RDC Salons résidents	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
97	RDC SOINS 167	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
98	RDC Vestibule 001	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
99	RDC Vestibule 171	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours
100	RDC Vestibule100C	0	People	(None)	User Defined	245.0	205.0	0.00	0.10	0.10	CFM/sqft	All Hours

b) Space Model CPT

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3. Zoning

Zone	Space	Level
2E 201		
	2E 201	2E
2E 202 à 204		
	2E 202 à 204	2E
2E 205		
	2E 205	2E
2E 207 et 206		
	2E 207 et 206	2E
2E 208		
	2E 208	2E
2E 209		
	2E 209	2E
2E 210 à 214		
	2E 210 à 214	2E
2E 215 et 216		
	2E 215 et 216	2E
2E 217		
	2E 217	2E
2E 218 et 219		
	2E 218 et 219	2E
2E 220		
	2E 220	2E
2E 221 à 225		
	2E 221 à 225	2E
2E 226		
	2E 226	2E
2E 227		

b) Space Model CPT

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Zone	Space	Level
	2E 227	2E
2E 228		
	2E 228	2E
2E 229		
	2E 229	2E
2E 230 à 234		
	2E 230 à 234	2E
2E 235		
	2E 235	2E
2E 236 et 237		
	2E 236 et 237	2E
2E corridor		
	2E corridor	2E
2E ESC1		
	2E ESC1	2E
2E ESC2 / 2E Rang. 255		
	2E ESC2 / 2E Rang. 255	2E
2E ESC3 et 2E Rang. 254		
	2E ESC3 et 2E Rang. 254	2E
2E Hall 170		
	2E Hall 170	2E
2E Rang. 256		
	2E Rang. 256	2E
2E salle commune 257		
	2E salle commune 257	2E
3E 301 à 308		
	3E 301 à 308	3E
3E 309 à 328		
	3E 309 à 328	3E

b) Space Model CPT

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Zone	Space	Level
3E 329 et 330		
	3E 329 et 330	3E
3E 331 à 338		
	3E 331 à 338	3E
3E corridor 300		
	3E corridor 300	3E
3E ESC1		
	3E ESC1	3E
3E ESC2 350 / 3E Rang. 355		
	3E ESC2 350 / 3E Rang. 355	3E
3E ESC3 / 3E Rang. 354		
	3E ESC3 / 3E Rang. 354	3E
3E Rang. 356		
	3E Rang. 356	3E
3E salle commune 357		
	3E salle commune 357	3E
4E 401		
	4E 401	4E
4E 402 à 404		
	4E 402 à 404	4E
4E 405		
	4E 405	4E
4E 406 et 407		
	4E 406 et 407	4E
4E 408		
	4E 408	4E
4E 409		
	4E 409	4E
4E 410 à 417		

b) Space Model CPT

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Zone	Space	Level
	4E 410 à 417	4E
4E 418		
	4E 418	4E
4E 419 et 420		
	4E 419 et 420	4E
4E 421		
	4E 421	4E
4E 422 à 426		
	4E 422 à 426	4E
4E 427		
	4E 427	4E
4E 428		
	4E 428	4E
4E 429		
	4E 429	4E
4E 430		
	4E 430	4E
4E 431 à 435		
	4E 431 à 435	4E
4E 436		
	4E 436	4E
4E 437 et 438		
	4E 437 et 438	4E
4E corridor 400		
	4E corridor 400	4E
4E ESC1		
	4E ESC1	4E
4E ESC2 / 4E Conciergerie 455		
	4E ESC2 / 4E Conciergerie 455	4E

b) Space Model CPT

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Zone	Space	Level
4E ESC3 / 4E Rang. 454		
	4E ESC3 / 4E Rang. 454	4E
4E Rang. 456		
	4E Rang. 456	4E
4E salle commune 457		
	4E salle commune 457	4E
RDC 101		
	RDC 101	RDC
RDC 102 et 103		
	RDC 102 et 103	RDC
RDC 104		
	RDC 104	RDC
RDC 105		
	RDC 105	RDC
RDC 106 à 109		
	RDC 106 à 109	RDC
RDC 110 et 111		
	RDC 110 et 111	RDC
RDC 112		
	RDC 112	RDC
RDC 113 à 117		
	RDC 113 à 117	RDC
RDC 118		
	RDC 118	RDC
RDC 119		
	RDC 119	RDC
RDC 120		
	RDC 120	RDC
RDC 121		

b) Space Model CPT

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Zone	Space	Level
	RDC 121	RDC
RDC 122 à 126		
	RDC 122 à 126	RDC
RDC 127		
	RDC 127	RDC
RDC 128 et 129		
	RDC 128 et 129	RDC
RDC 169 / 170 / Corridor 100		
	RDC 169 / 170 / Corridor 100	RDC
RDC Atelier		
	RDC Atelier	RDC
RDC Billard		
	RDC Billard	RDC
RDC Bureau 157		
	RDC Bureau 157	RDC
RDC Bureau 158		
	RDC Bureau 158	RDC
RDC Bureau 159		
	RDC Bureau 159	RDC
RDC Bureau 160		
	RDC Bureau 160	RDC
RDC Bureau 161		
	RDC Bureau 161	RDC
RDC Corridor		
	RDC Corridor	RDC
RDC Corridor 100		
	RDC Corridor 100	RDC
RDC Corridor 100A		
	RDC Corridor 100A	RDC

b) Space Model CPT

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Zone	Space	Level
RDC EAU		
	RDC EAU	RDC
RDC ESC1		
	RDC ESC1	RDC
RDC ESC2 / RDC Conciergerie 155		
	RDC ESC2 / RDC Conciergerie 155	RDC
RDC ESC3		
	RDC ESC3	RDC
RDC Hall/Vestibule 170/171		
	RDC Vestibule 171	Hall/Vestibule 170/171
RDC Méc 154		
	RDC Méc 154	RDC
RDC Passage couvert 176		
	RDC Passage couvert 176	RDC
RDC Poste2 162		
	RDC Poste2 162	RDC
RDC Réception1		
	RDC Réception1	RDC
RDC salle commune 175		
	RDC salle commune 175	RDC
RDC Salons résidents		
	RDC Salons résidents	RDC
RDC SOINS 167		
	RDC SOINS 167	RDC
RDC Vestibule 001		
	RDC Vestibule 001	RDC
RDC Vestibule100C		
	RDC Vestibule100C	RDC
Unconditioned (no spaces)		

b) Space Model CPT

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Zone	Space	Level
	Unassigned (no spaces)	

4. Assemblies

Category	Surface Group	Selected Assembly
Exterior Above Grade Wall		
	Default	R=24.5
Interior Wall		
	Default	Default Wall
Roof		
	Default	R=41
Ceiling		
	Interior Ceilings	Default Ceiling
Floor Above Space		
	Interior Floors Above Space	Default Floor
Slab Floor On Grade		
	At-Grade Floors	R=10

b) Space Model CPT

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5. Windows & Doors

Category	Tag	Width x Height, Elevation	Selected Assembly
Window			
	F-01	3' x 5' 6" , 1' 8"	U 0.28 SHGC 0.72
	F-02	5' x 5' 6" , 1' 8"	U 0.28 SHGC 0.72
	F-03	6' x 5' 6" , 1' 8"	U 0.28 SHGC 0.72
	F-04	9' x 5' 6" , 1' 8"	U 0.28 SHGC 0.72
	MR-01	5' 8" x 6' 8" , 11' 10"	U 0.28 SHGC 0.72
	MR-02	6' 6 3/4" x 6' 8" , 11' 10"	U 0.28 SHGC 0.72
	MR-03	6' 9" x 6' 8" , 11' 10"	U 0.28 SHGC 0.72
	MR-04	5' 8" x 11' 8" , 0'	U 0.28 SHGC 0.72
	MR-05	6' 9" x 11' 8" , 0'	U 0.28 SHGC 0.72
	MR-07	5' 6" x 8' 6" , 0'	U 0.28 SHGC 0.72
	MR-09	8' 6" x 8' 6" , 0'	U 0.28 SHGC 0.72
	MR-10	13' x 7' 3 1/2" , 0'	U 0.28 SHGC 0.72
Door			
	MR-06 avec porte	6' 6 3/4" x 11' 8"	U 0.28 SHGC 0.72.
	MR-08	5' 6" x 8' 6"	U 0.28 SHGC 0.72.
	MR-11	10' 2 1/4" x 7' 3 1/2"	U 0.28 SHGC 0.72.
	PG 165B	8' x 7'	Default Door
	PO Standard	3' x 7'	Default Door
	PP-01	7' x 6' 9 1/4"	U 0.28 SHGC 0.72.
	PV standard	3' x 7'	U 0.28 SHGC 0.72.

ASHRAE 90.1 Vertical Glazing Summary:

Total Window Opening Glazing Area 7056.6 sqft
 Total Door Opening Glazing Area 6992.2 sqft
 Total Gross Above Grade Wall Area 61349.2 sqft
 Window-to-wall Ratio (WWR) 22.9 %

01 2E 201 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 01 2E 201 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 201

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

01 2E 201 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **1006.4** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	1006.4	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **18.9** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **18.0** MBH
AHRI Performance Rating **27.500** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **11.9** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **18.0** MBH
AHRI Performance Rating **4.000** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

01 2E 201 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 01 2E 201 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 201

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

01 2E 201 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **524.0** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	524.0	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **10.7** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **18.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **13.6** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **18.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

02 2E 202 à 204 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 02 2E 202 à 204 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 202 à 204

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

02 2E 202 à 204 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **1798.2** CFM
Ventilation Airflow **300.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	1798.2	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **34.8** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **36.0** MBH
AHRI Performance Rating **28.000** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **23.9** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **36.0** MBH
AHRI Performance Rating **4.550** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

02 2E 202 à 204 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 02 2E 202 à 204 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 202 à 204

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

02 2E 202 à 204 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **916.9** CFM
Ventilation Airflow **300.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	916.9	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **21.1** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **36.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **28.8** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **36.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

03 2E 205 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 03 2E 205 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 205

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

03 2E 205 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **989.8** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	989.8	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **18.6** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **18.0** MBH
AHRI Performance Rating **27.500** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **11.0** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **18.0** MBH
AHRI Performance Rating **4.000** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

03 2E 205 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 03 2E 205 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 205

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

03 2E 205 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **514.7** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	514.7	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **10.4** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **18.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **12.7** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **18.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

04 2E 207 et 206 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 04 2E 207 et 206 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 207 et 206

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

04 2E 207 et 206 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **885.3** CFM
Ventilation Airflow **200.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	885.3	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **17.6** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **36.0** MBH
AHRI Performance Rating **27.500** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **12.7** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **36.0** MBH
AHRI Performance Rating **4.000** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

04 2E 207 et 206 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 04 2E 207 et 206 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 207 et 206

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

04 2E 207 et 206 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **431.2** CFM
Ventilation Airflow **200.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	431.2	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **10.7** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **36.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **15.8** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **36.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

05 2E 208 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 05 2E 208 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 208

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

05 2E 208 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **1003.6** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	1003.6	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **18.8** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **18.0** MBH
AHRI Performance Rating **27.500** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **12.0** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **18.0** MBH
AHRI Performance Rating **4.000** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

05 2E 208 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

03/02/2026
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1. General Details:

Air System Name 05 2E 208 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 208

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

05 2E 208 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 519.4 CFM
Ventilation Airflow 100.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	519.4	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 10.7 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 12.0 MBH
AHRI Performance Rating 14.300 SEER
DX System Configuration 1-stage, 1 compressor, 1 circuit
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 13.7 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 12.0 MBH
AHRI Performance Rating 7.700 HSPF
Cutoff OAT 23.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

06 2E 209 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 06 2E 209 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 209

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

06 2E 209 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 436.2 CFM
Ventilation Airflow 100.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	436.2	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 7.5 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 12.0 MBH
AHRI Performance Rating 28.000 SEER2
DX System Configuration 2-stage, 2 compressors, 2 circuits
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 13.5 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 12.0 MBH
AHRI Performance Rating 4.550 COP
Cutoff OAT -22.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

06 2E 209 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 06 2E 209 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 209

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

06 2E 209 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):**System Sizing Data:****Sizing Data:**

Cooling Supply Temperature **58.0** F
 Supply Fan Airflow **442.2** CFM
 Ventilation Airflow **100.0** CFM
 Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
 Chilled Water Delta-T **10.0** F
 Hot Water Supply Temperature **140.0** F
 Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
 Cooling Latent **15** %
 Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
 Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	442.2	-	-	-

5. Equipment Data**Central Cooling Unit - Air-Cooled DX**

Estimated Maximum Load **4.0** MBH
 Design OADB **95.0** F
 Design EWB **67.0** F
 Equipment Sizing **User-Defined**
 Gross Cooling Capacity **12.0** MBH
 AHRI Performance Rating **14.300** SEER
 DX System Configuration **1-stage, 1 compressor, 1 circuit**
 Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **15.3** MBH
 Design OADB **47.0** F
 Design EDB **70.0** F
 Equipment Sizing **User-Defined**
 Gross Heating Capacity **12.0** MBH
 AHRI Performance Rating **7.700** HSPF
 Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
 Auxiliary Heating Upper Cutoff **70.0** F

07 2E 210 à 214 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 07 2E 210 à 214 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 210 à 214

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

07 2E 210 à 214 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **2179.3** CFM
Ventilation Airflow **500.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	2179.3	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **41.7** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **60.0** MBH
AHRI Performance Rating **28.000** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **40.8** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **60.0** MBH
AHRI Performance Rating **4.550** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

07 2E 210 à 214 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 07 2E 210 à 214 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 210 à 214

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

07 2E 210 à 214 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **1178.8** CFM
Ventilation Airflow **500.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	1178.8	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **19.1** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **60.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **48.8** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **60.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

08 2E 215 et 216 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 08 2E 215 et 216 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 215 et 216

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

08 2E 215 et 216 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **750.5** CFM
Ventilation Airflow **200.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	750.5	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **13.6** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **24.0** MBH
AHRI Performance Rating **28.000** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **16.0** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **24.0** MBH
AHRI Performance Rating **4.550** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

08 2E 215 et 216 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 08 2E 215 et 216 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 215 et 216

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

08 2E 215 et 216 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **462.8** CFM
Ventilation Airflow **200.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	462.8	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **5.5** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **24.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **19.3** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **24.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

09 2E 217 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 09 2E 217 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 217

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

09 2E 217 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **656.8** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	656.8	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **12.5** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **12.0** MBH
AHRI Performance Rating **28.000** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **14.9** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **12.0** MBH
AHRI Performance Rating **4.550** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

09 2E 217 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 09 2E 217 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 217

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

09 2E 217 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **496.2** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	496.2	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **5.6** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **12.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **16.7** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **12.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

10 2E 218 et 219 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 10 2E 218 et 219 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 218 et 219

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

10 2E 218 et 219 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **586.4** CFM
Ventilation Airflow **200.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	586.4	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **11.1** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **24.0** MBH
AHRI Performance Rating **28.000** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **12.6** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **24.0** MBH
AHRI Performance Rating **4.550** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

10 2E 218 et 219 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 10 2E 218 et 219 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 218 et 219

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

10 2E 218 et 219 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **330.1** CFM
Ventilation Airflow **200.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	330.1	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **4.9** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **24.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **15.7** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **24.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

11 2E 220 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 11 2E 220 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 220

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

11 2E 220 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 670.4 CFM
Ventilation Airflow 100.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	670.4	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 12.6 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 12.0 MBH
AHRI Performance Rating 28.000 SEER2
DX System Configuration 2-stage, 2 compressors, 2 circuits
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 10.9 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 12.0 MBH
AHRI Performance Rating 4.550 COP
Cutoff OAT -22.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

11 2E 220 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 11 2E 220 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 220

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

11 2E 220 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 340.8 CFM
Ventilation Airflow 100.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	340.8	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 6.1 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 12.0 MBH
AHRI Performance Rating 14.300 SEER
DX System Configuration 1-stage, 1 compressor, 1 circuit
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 12.6 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 12.0 MBH
AHRI Performance Rating 7.700 HSPF
Cutoff OAT 23.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

12 2E 221 à 225 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 12 2E 221 à 225 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 221 à 225

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

12 2E 221 à 225 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **2235.7** CFM
Ventilation Airflow **500.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	2235.7	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **43.4** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **60.0** MBH
AHRI Performance Rating **28.000** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **40.8** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **60.0** MBH
AHRI Performance Rating **4.550** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

12 2E 221 à 225 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 12 2E 221 à 225 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 221 à 225

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

12 2E 221 à 225 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **1181.2** CFM
Ventilation Airflow **500.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	1181.2	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **20.4** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **60.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **48.8** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **60.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

13 2E 226 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 13 2E 226 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 226

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

13 2E 226 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **304.7** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	304.7	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **5.7** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **12.0** MBH
AHRI Performance Rating **28.000** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **6.3** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **12.0** MBH
AHRI Performance Rating **4.550** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

13 2E 226 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 13 2E 226 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 226

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

13 2E 226 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **166.1** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	166.1	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **2.5** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **12.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **7.9** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **12.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

14 2E 227 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 14 2E 227 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 227

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

14 2E 227 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **636.8** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	636.8	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **12.2** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **12.0** MBH
AHRI Performance Rating **28.000** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **15.9** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **12.0** MBH
AHRI Performance Rating **4.550** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

14 2E 227 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 14 2E 227 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 227

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

14 2E 227 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **531.3** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	531.3	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **5.3** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **12.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **17.7** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **12.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

15 2E 228 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1:19 PM

1. General Details:

Air System Name 15 2E 228 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 228

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

15 2E 228 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **432.6** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	432.6	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **8.4** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **12.0** MBH
AHRI Performance Rating **28.000** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **6.6** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **12.0** MBH
AHRI Performance Rating **4.550** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

15 2E 228 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 15 2E 228 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 228

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

15 2E 228 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 197.1 CFM
Ventilation Airflow 100.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	197.1	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 4.7 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 12.0 MBH
AHRI Performance Rating 14.300 SEER
DX System Configuration 1-stage, 1 compressor, 1 circuit
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 8.2 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 12.0 MBH
AHRI Performance Rating 7.700 HSPF
Cutoff OAT 23.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

16 2E 229 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 16 2E 229 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 229

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

16 2E 229 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **717.3** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	717.3	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **13.3** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **18.0** MBH
AHRI Performance Rating **27.500** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **17.5** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **18.0** MBH
AHRI Performance Rating **4.000** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

16 2E 229 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 16 2E 229 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 229

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

16 2E 229 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 592.0 CFM
Ventilation Airflow 100.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	592.0	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 6.6 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 18.0 MBH
AHRI Performance Rating 14.300 SEER
DX System Configuration 1-stage, 1 compressor, 1 circuit
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 19.3 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 18.0 MBH
AHRI Performance Rating 7.700 HSPF
Cutoff OAT 23.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

17 2E 230 à 234 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 17 2E 230 à 234 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 230 à 234

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

17 2E 230 à 234 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **3356.7** CFM
Ventilation Airflow **500.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	3356.7	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **64.9** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **60.0** MBH
AHRI Performance Rating **28.000** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **41.0** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **60.0** MBH
AHRI Performance Rating **4.550** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

17 2E 230 à 234 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 17 2E 230 à 234 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 230 à 234

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

17 2E 230 à 234 REF Input Data

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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **1730.9** CFM
Ventilation Airflow **500.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	1730.9	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **38.5** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **60.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **49.3** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **60.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

18 2E 235 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 18 2E 235 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 235

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

18 2E 235 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **994.2** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	994.2	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **18.7** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **18.0** MBH
AHRI Performance Rating **27.500** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **11.0** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **18.0** MBH
AHRI Performance Rating **4.000** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

18 2E 235 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 18 2E 235 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 235

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

18 2E 235 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **516.4** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	516.4	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **10.5** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **18.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **12.7** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **18.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

19 2E 236 et 237 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 19 2E 236 et 237 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 236 et 237

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

19 2E 236 et 237 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **882.1** CFM
Ventilation Airflow **200.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	882.1	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **17.6** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **24.0** MBH
AHRI Performance Rating **28.000** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **12.6** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **24.0** MBH
AHRI Performance Rating **4.550** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

19 2E 236 et 237 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 19 2E 236 et 237 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E 236 et 237

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

19 2E 236 et 237 REF Input Data

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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **427.8** CFM
Ventilation Airflow **200.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	427.8	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **10.7** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **24.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **15.7** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **24.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

20 2E salle commune 257 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 20 2E salle commune 257 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E salle commune 257

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

20 2E salle commune 257 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 254.0 CFM
Ventilation Airflow 37.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	254.0	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 4.8 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 9.0 MBH
AHRI Performance Rating 30.000 SEER2
DX System Configuration 2-stage, 2 compressors, 2 circuits
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 4.0 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 9.0 MBH
AHRI Performance Rating 4.400 COP
Cutoff OAT -22.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

20 2E salle commune 257 REF Input Data

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1. General Details:

Air System Name 20 2E salle commune 257 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E salle commune 257

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

20 2E salle commune 257 REF Input Data

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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **126.1** CFM
Ventilation Airflow **37.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	126.1	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **2.6** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **9.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **4.6** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **9.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

21 3E 301 à 308 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 21 3E 301 à 308 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	3E 301 à 308

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

21 3E 301 à 308 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **5731.0** CFM
Ventilation Airflow **800.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	5731.0	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **109.4** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **144.0** MBH
AHRI Performance Rating **27.500** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **71.2** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **144.0** MBH
AHRI Performance Rating **4.000** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

21 3E 301 à 308 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 21 3E 301 à 308 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	3E 301 à 308

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

21 3E 301 à 308 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **2923.2** CFM
Ventilation Airflow **800.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	2923.2	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **64.3** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **144.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **84.4** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **144.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

22 3E 309 à 328 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 22 3E 309 à 328 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	3E 309 à 328

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

22 3E 309 à 328 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 8922.3 CFM
Ventilation Airflow 2000.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	8922.3	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 172.4 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 240.0 MBH
AHRI Performance Rating 28.000 SEER2
DX System Configuration 2-stage, 2 compressors, 2 circuits
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 179.7 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 240.0 MBH
AHRI Performance Rating 4.550 COP
Cutoff OAT -22.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

22 3E 309 à 328 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 22 3E 309 à 328 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	3E 309 à 328

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

22 3E 309 à 328 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 5369.8 CFM
Ventilation Airflow 2000.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	5369.8	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 77.4 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 240.0 MBH
AHRI Performance Rating 14.300 SEER
DX System Configuration 1-stage, 1 compressor, 1 circuit
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 212.5 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 240.0 MBH
AHRI Performance Rating 7.700 HSPF
Cutoff OAT 23.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

23 3E 329 et 330 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 23 3E 329 et 330 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	3E 329 et 330

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

23 3E 329 et 330 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **1117.8** CFM
Ventilation Airflow **200.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	1117.8	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **21.4** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **24.0** MBH
AHRI Performance Rating **28.000** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **24.0** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **24.0** MBH
AHRI Performance Rating **4.550** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

23 3E 329 et 330 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 23 3E 329 et 330 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	3E 329 et 330

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

23 3E 329 et 330 REF Input Data

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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 766.6 CFM
Ventilation Airflow 200.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	766.6	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 11.0 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 24.0 MBH
AHRI Performance Rating 14.300 SEER
DX System Configuration 1-stage, 1 compressor, 1 circuit
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 27.4 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 24.0 MBH
AHRI Performance Rating 7.700 HSPF
Cutoff OAT 23.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

24 3E 331 à 338 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 24 3E 331 à 338 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	3E 331 à 338

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

24 3E 331 à 338 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 5185.0 CFM
Ventilation Airflow 800.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	5185.0	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 99.9 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 96.0 MBH
AHRI Performance Rating 28.000 SEER2
DX System Configuration 2-stage, 2 compressors, 2 circuits
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 64.4 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 96.0 MBH
AHRI Performance Rating 4.550 COP
Cutoff OAT -22.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

24 3E 331 à 338 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 24 3E 331 à 338 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	3E 331 à 338

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

24 3E 331 à 338 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 2648.0 CFM
Ventilation Airflow 800.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	2648.0	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 59.7 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 96.0 MBH
AHRI Performance Rating 14.300 SEER
DX System Configuration 1-stage, 1 compressor, 1 circuit
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 77.5 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 96.0 MBH
AHRI Performance Rating 7.700 HSPF
Cutoff OAT 23.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

25 3E salle commune 357 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 25 3E salle commune 357 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	3E salle commune 357

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

25 3E salle commune 357 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **254.4** CFM
Ventilation Airflow **37.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	254.4	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **4.7** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **9.0** MBH
AHRI Performance Rating **30.000** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **4.0** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **9.0** MBH
AHRI Performance Rating **4.400** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

25 3E salle commune 357 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 25 3E salle commune 357 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	3E salle commune 357

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

25 3E salle commune 357 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 126.0 CFM
Ventilation Airflow 37.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	126.0	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 2.6 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 9.0 MBH
AHRI Performance Rating 14.300 SEER
DX System Configuration 1-stage, 1 compressor, 1 circuit
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 4.6 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 9.0 MBH
AHRI Performance Rating 7.700 HSPF
Cutoff OAT 23.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

26 4E 401 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1:19 PM

1. General Details:

Air System Name 26 4E 401 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 401

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

26 4E 401 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **1052.8** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	1052.8	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **19.8** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **18.0** MBH
AHRI Performance Rating **27.500** SEER
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **14.8** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **18.0** MBH
AHRI Performance Rating **4.000** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

26 4E 401 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 26 4E 401 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 401

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

26 4E 401 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **561.7** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	561.7	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **11.6** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **9.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **16.4** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **9.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

27 4E 402 à 404 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 27 4E 402 à 404 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 402 à 404

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

27 4E 402 à 404 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **1851.5** CFM
Ventilation Airflow **300.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	1851.5	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **36.4** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **36.0** MBH
AHRI Performance Rating **28.000** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **29.9** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **36.0** MBH
AHRI Performance Rating **4.550** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

27 4E 402 à 404 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 27 4E 402 à 404 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 402 à 404

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

27 4E 402 à 404 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 983.3 CFM
Ventilation Airflow 300.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	983.3	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 22.8 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 36.0 MBH
AHRI Performance Rating 14.300 SEER
DX System Configuration 1-stage, 1 compressor, 1 circuit
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 34.7 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 36.0 MBH
AHRI Performance Rating 7.700 HSPF
Cutoff OAT 23.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

28 4E 405 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 28 4E 405 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 405

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

28 4E 405 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 1014.2 CFM
Ventilation Airflow 100.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	1014.2	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 19.0 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 18.0 MBH
AHRI Performance Rating 27.500 SEER2
DX System Configuration 2-stage, 2 compressors, 2 circuits
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 13.8 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 18.0 MBH
AHRI Performance Rating 4.000 COP
Cutoff OAT -22.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

28 4E 405 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 28 4E 405 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 405

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

28 4E 405 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 543.5 CFM
Ventilation Airflow 100.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	543.5	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 11.3 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 18.0 MBH
AHRI Performance Rating 14.300 SEER
DX System Configuration 1-stage, 1 compressor, 1 circuit
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 15.4 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 18.0 MBH
AHRI Performance Rating 7.700 HSPF
Cutoff OAT 23.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

29 4E 406 et 407 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 29 4E 406 et 407 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 406 et 407

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

29 4E 406 et 407 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 921.4 CFM
Ventilation Airflow 200.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	921.4	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 18.7 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 24.0 MBH
AHRI Performance Rating 28.000 SEER2
DX System Configuration 2-stage, 2 compressors, 2 circuits
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 16.1 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 24.0 MBH
AHRI Performance Rating 4.550 COP
Cutoff OAT -22.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

29 4E 406 et 407 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 29 4E 406 et 407 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 406 et 407

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

29 4E 406 et 407 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 484.0 CFM
Ventilation Airflow 200.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	484.0	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 11.7 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 24.0 MBH
AHRI Performance Rating 14.300 SEER
DX System Configuration 1-stage, 1 compressor, 1 circuit
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 19.2 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 24.0 MBH
AHRI Performance Rating 7.700 HSPF
Cutoff OAT 23.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

30 4E 408 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 30 4E 408 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 408

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

30 4E 408 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **1028.7** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	1028.7	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **19.3** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **18.0** MBH
AHRI Performance Rating **27.500** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **14.9** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **18.0** MBH
AHRI Performance Rating **4.000** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

30 4E 408 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 30 4E 408 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 408

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

30 4E 408 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **553.7** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	553.7	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **11.6** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **18.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **16.6** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **18.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

31 4E 409 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 31 4E 409 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 409

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

31 4E 409 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **529.6** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	529.6	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **8.1** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **12.0** MBH
AHRI Performance Rating **28.000** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **16.0** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **12.0** MBH
AHRI Performance Rating **4.550** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

31 4E 409 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 31 4E 409 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 409

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

31 4E 409 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 535.5 CFM
Ventilation Airflow 100.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	535.5	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 4.8 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 12.0 MBH
AHRI Performance Rating 14.300 SEER
DX System Configuration 1-stage, 1 compressor, 1 circuit
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 17.8 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 12.0 MBH
AHRI Performance Rating 7.700 HSPF
Cutoff OAT 23.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

32 4E 410 à 417 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 32 4E 410 à 417 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 410 à 417

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

32 4E 410 à 417 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **3396.4** CFM
Ventilation Airflow **800.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	3396.4	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **66.6** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **96.0** MBH
AHRI Performance Rating **28.000** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **80.9** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **96.0** MBH
AHRI Performance Rating **4.550** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

32 4E 410 à 417 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 32 4E 410 à 417 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 410 à 417

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

32 4E 410 à 417 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **2478.5** CFM
Ventilation Airflow **800.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	2478.5	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **26.7** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **96.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **94.3** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **96.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

33 4E 418 CPT Input Data

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1. General Details:

Air System Name 33 4E 418 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 418

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

33 4E 418 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 633.0 CFM
Ventilation Airflow 100.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	633.0	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 12.1 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 12.0 MBH
AHRI Performance Rating 28.000 SEER2
DX System Configuration 2-stage, 2 compressors, 2 circuits
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 17.9 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 12.0 MBH
AHRI Performance Rating 4.550 COP
Cutoff OAT -22.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

33 4E 418 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 33 4E 418 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 418

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

33 4E 418 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 608.1 CFM
Ventilation Airflow 100.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	608.1	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 5.0 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 12.0 MBH
AHRI Performance Rating 14.300 SEER
DX System Configuration 1-stage, 1 compressor, 1 circuit
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 19.8 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 12.0 MBH
AHRI Performance Rating 7.700 HSPF
Cutoff OAT 23.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

34 4E 419 et 420 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 34 4E 419 et 420 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 419 et 420

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

34 4E 419 et 420 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 541.0 CFM
Ventilation Airflow 200.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	541.0	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 10.4 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 24.0 MBH
AHRI Performance Rating 28.000 SEER2
DX System Configuration 2-stage, 2 compressors, 2 circuits
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 15.8 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 24.0 MBH
AHRI Performance Rating 4.550 COP
Cutoff OAT -22.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

34 4E 419 et 420 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 34 4E 419 et 420 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 419 et 420

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

34 4E 419 et 420 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **453.6** CFM
Ventilation Airflow **200.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	453.6	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **3.7** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **24.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **19.1** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **24.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

35 4E 421 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 35 4E 421 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 421

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

35 4E 421 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **646.0** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	646.0	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **12.1** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **12.0** MBH
AHRI Performance Rating **28.000** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **13.6** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **12.0** MBH
AHRI Performance Rating **4.550** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

35 4E 421 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 35 4E 421 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 421

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

35 4E 421 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 443.0 CFM
Ventilation Airflow 100.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	443.0	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 5.3 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 12.0 MBH
AHRI Performance Rating 14.300 SEER
DX System Configuration 1-stage, 1 compressor, 1 circuit
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 15.4 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 12.0 MBH
AHRI Performance Rating 7.700 HSPF
Cutoff OAT 23.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

36 4E 422 à 426 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 36 4E 422 à 426 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 422 à 426

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

36 4E 422 à 426 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **2133.1** CFM
Ventilation Airflow **500.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	2133.1	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **41.8** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **60.0** MBH
AHRI Performance Rating **28.000** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **50.5** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **60.0** MBH
AHRI Performance Rating **4.550** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

36 4E 422 à 426 REF Input Data

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1. General Details:

Air System Name 36 4E 422 à 426 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 422 à 426

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

36 4E 422 à 426 REF Input Data

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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **1546.9** CFM
Ventilation Airflow **500.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	1546.9	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **16.7** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **60.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **58.9** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **60.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

37 4E 427 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 37 4E 427 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 427

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

37 4E 427 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **288.7** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	288.7	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **5.5** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **12.0** MBH
AHRI Performance Rating **28.000** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **8.0** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **12.0** MBH
AHRI Performance Rating **4.550** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

37 4E 427 REF Input Data

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1. General Details:

Air System Name 37 4E 427 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 427

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

37 4E 427 REF Input Data

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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **230.2** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	230.2	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **1.9** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **12.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **9.6** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **12.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

38 4E 428 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 38 4E 428 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 428

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

38 4E 428 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 642.1 CFM
Ventilation Airflow 100.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	642.1	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 11.9 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 12.0 MBH
AHRI Performance Rating 28.000 SEER2
DX System Configuration 2-stage, 2 compressors, 2 circuits
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 18.9 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 12.0 MBH
AHRI Performance Rating 4.550 COP
Cutoff OAT -22.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

38 4E 428 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 38 4E 428 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 428

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

38 4E 428 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 648.7 CFM
Ventilation Airflow 100.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	648.7	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 4.8 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 12.0 MBH
AHRI Performance Rating 14.300 SEER
DX System Configuration 1-stage, 1 compressor, 1 circuit
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 20.9 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 12.0 MBH
AHRI Performance Rating 7.700 HSPF
Cutoff OAT 23.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

39 4E 429 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 39 4E 429 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 429

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

39 4E 429 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 414.8 CFM
Ventilation Airflow 100.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	414.8	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 8.2 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 12.0 MBH
AHRI Performance Rating 28.000 SEER2
DX System Configuration 2-stage, 2 compressors, 2 circuits
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 8.3 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 12.0 MBH
AHRI Performance Rating 4.550 COP
Cutoff OAT -22.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

39 4E 429 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 39 4E 429 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 429

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

39 4E 429 REF Input Data

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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **238.8** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	238.8	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **4.1** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **12.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **9.9** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **12.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

40 4E 430 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 40 4E 430 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 430

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

40 4E 430 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **723.4** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	723.4	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **13.0** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **18.0** MBH
AHRI Performance Rating **27.500** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **21.1** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **18.0** MBH
AHRI Performance Rating **4.000** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

40 4E 430 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 40 4E 430 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 430

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

40 4E 430 REF Input Data

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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):**System Sizing Data:****Sizing Data:**

Cooling Supply Temperature **58.0** F
 Supply Fan Airflow **730.0** CFM
 Ventilation Airflow **100.0** CFM
 Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
 Chilled Water Delta-T **10.0** F
 Hot Water Supply Temperature **140.0** F
 Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
 Cooling Latent **15** %
 Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
 Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	730.0	-	-	-

5. Equipment Data**Central Cooling Unit - Air-Cooled DX**

Estimated Maximum Load **6.4** MBH
 Design OADB **95.0** F
 Design EWB **67.0** F
 Equipment Sizing **User-Defined**
 Gross Cooling Capacity **18.0** MBH
 AHRI Performance Rating **14.300** SEER
 DX System Configuration **1-stage, 1 compressor, 1 circuit**
 Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **23.0** MBH
 Design OADB **47.0** F
 Design EDB **70.0** F
 Equipment Sizing **User-Defined**
 Gross Heating Capacity **18.0** MBH
 AHRI Performance Rating **7.700** HSPF
 Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
 Auxiliary Heating Upper Cutoff **70.0** F

41 4E 431 à 435 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 41 4E 431 à 435 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 431 à 435

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

41 4E 431 à 435 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **3459.4** CFM
Ventilation Airflow **500.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	3459.4	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **67.1** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **90.0** MBH
AHRI Performance Rating **27.500** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **51.1** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **90.0** MBH
AHRI Performance Rating **4.000** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

41 4E 431 à 435 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 41 4E 431 à 435 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 431 à 435

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

41 4E 431 à 435 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **1829.3** CFM
Ventilation Airflow **500.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	1829.3	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **41.7** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **90.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **59.2** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **90.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

42 4E 436 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 42 4E 436 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 436

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

42 4E 436 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **1019.0** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	1019.0	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **19.1** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **18.0** MBH
AHRI Performance Rating **27.500** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **13.8** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **18.0** MBH
AHRI Performance Rating **4.000** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

42 4E 436 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 42 4E 436 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 436

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

42 4E 436 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
 Prepared by: Groupe CMI

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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):**System Sizing Data:****Sizing Data:**

Cooling Supply Temperature **58.0** F
 Supply Fan Airflow **545.7** CFM
 Ventilation Airflow **100.0** CFM
 Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
 Chilled Water Delta-T **10.0** F
 Hot Water Supply Temperature **140.0** F
 Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
 Cooling Latent **15** %
 Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
 Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	545.7	-	-	-

5. Equipment Data**Central Cooling Unit - Air-Cooled DX**

Estimated Maximum Load **11.3** MBH
 Design OADB **95.0** F
 Design EWB **67.0** F
 Equipment Sizing **User-Defined**
 Gross Cooling Capacity **18.0** MBH
 AHRI Performance Rating **14.300** SEER
 DX System Configuration **1-stage, 1 compressor, 1 circuit**
 Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **15.4** MBH
 Design OADB **47.0** F
 Design EDB **70.0** F
 Equipment Sizing **User-Defined**
 Gross Heating Capacity **18.0** MBH
 AHRI Performance Rating **7.700** HSPF
 Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
 Auxiliary Heating Upper Cutoff **70.0** F

43 4E 437 et 438 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 43 4E 437 et 438 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 437 et 438

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

43 4E 437 et 438 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **917.6** CFM
Ventilation Airflow **200.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	917.6	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **18.6** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **24.0** MBH
AHRI Performance Rating **28.000** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **15.9** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **24.0** MBH
AHRI Performance Rating **4.550** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

43 4E 437 et 438 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 43 4E 437 et 438 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E 437 et 438

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

43 4E 437 et 438 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **483.5** CFM
Ventilation Airflow **200.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	483.5	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **11.7** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **24.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **19.0** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **24.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

44 4E salle commune 457 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 44 4E salle commune 457 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E salle commune 457

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

44 4E salle commune 457 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **245.9** CFM
Ventilation Airflow **37.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	245.9	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **4.6** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **9.0** MBH
AHRI Performance Rating **30.000** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **4.7** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **9.0** MBH
AHRI Performance Rating **4.400** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

44 4E salle commune 457 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 44 4E salle commune 457 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E salle commune 457

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

44 4E salle commune 457 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **152.4** CFM
Ventilation Airflow **37.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	152.4	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **2.4** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **9.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **5.4** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **9.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

45 RDC 101 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 45 RDC 101 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC 101

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

45 RDC 101 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **1009.6** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	1009.6	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **19.1** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **18.0** MBH
AHRI Performance Rating **27.500** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **13.0** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **18.0** MBH
AHRI Performance Rating **4.000** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

45 RDC 101 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 45 RDC 101 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC 101

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

45 RDC 101 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **524.9** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	524.9	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **10.4** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **18.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **14.7** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **18.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

46 RDC 102 et 103 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 46 RDC 102 et 103 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC 102 et 103

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

46 RDC 102 et 103 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **895.1** CFM
Ventilation Airflow **200.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	895.1	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **17.8** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **24.0** MBH
AHRI Performance Rating **28.000** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **14.9** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **24.0** MBH
AHRI Performance Rating **4.550** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

46 RDC 102 et 103 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 46 RDC 102 et 103 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC 102 et 103

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

46 RDC 102 et 103 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **440.7** CFM
Ventilation Airflow **200.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	440.7	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **10.6** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **24.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **18.1** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **24.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

47 RDC 104 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 47 RDC 104 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC 104

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

47 RDC 104 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 1029.1 CFM
Ventilation Airflow 100.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	1029.1	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 19.5 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 18.0 MBH
AHRI Performance Rating 27.500 SEER2
DX System Configuration 2-stage, 2 compressors, 2 circuits
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 14.2 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 18.0 MBH
AHRI Performance Rating 4.000 COP
Cutoff OAT -22.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

47 RDC 104 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 47 RDC 104 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC 104

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

47 RDC 104 REF Input Data

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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **541.2** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	541.2	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **10.8** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **18.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **16.0** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **18.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

48 RDC 105 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 48 RDC 105 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC 105

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

48 RDC 105 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **519.9** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	519.9	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **7.4** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **12.0** MBH
AHRI Performance Rating **28.000** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **15.8** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **12.0** MBH
AHRI Performance Rating **4.550** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

48 RDC 105 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 48 RDC 105 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC 105

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

48 RDC 105 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **526.0** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	526.0	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **3.9** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **12.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **17.6** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **12.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

49 RDC 106 à 109 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 49 RDC 106 à 109 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC 106 à 109

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

49 RDC 106 à 109 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
 Supply Fan Airflow 1796.3 CFM
 Ventilation Airflow 400.0 CFM
 Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
 Chilled Water Delta-T 10.0 F
 Hot Water Supply Temperature 140.0 F
 Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
 Cooling Latent 15 %
 Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
 Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	1796.3	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 32.7 MBH
 Design OADB 95.0 F
 Design EWB 67.0 F
 Equipment Sizing User-Defined
 Gross Cooling Capacity 48.0 MBH
 AHRI Performance Rating 28.000 SEER2
 DX System Configuration 2-stage, 2 compressors, 2 circuits
 Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 38.5 MBH
 Design OADB 47.0 F
 Design EDB 70.0 F
 Equipment Sizing User-Defined
 Gross Heating Capacity 48.0 MBH
 AHRI Performance Rating 4.550 COP
 Cutoff OAT -22.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
 Auxiliary Heating Upper Cutoff 70.0 F

49 RDC 106 à 109 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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1. General Details:

Air System Name 49 RDC 106 à 109 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC 106 à 109

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

49 RDC 106 à 109 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **1171.2** CFM
Ventilation Airflow **400.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	1171.2	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **15.1** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **48.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **45.3** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **48.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

50 RDC 110 et 111 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 50 RDC 110 et 111 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC 110 et 111

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

50 RDC 110 et 111 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **583.1** CFM
Ventilation Airflow **200.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	583.1	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **10.9** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **24.0** MBH
AHRI Performance Rating **28.000** SEER
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **14.8** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **24.0** MBH
AHRI Performance Rating **4.550** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

50 RDC 110 et 111 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 50 RDC 110 et 111 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC 110 et 111

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

50 RDC 110 et 111 REF Input Data

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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 416.8 CFM
Ventilation Airflow 200.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	416.8	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 4.3 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 24.0 MBH
AHRI Performance Rating 14.300 SEER
DX System Configuration 1-stage, 1 compressor, 1 circuit
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 18.1 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 24.0 MBH
AHRI Performance Rating 7.700 HSPF
Cutoff OAT 23.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

51 RDC 112 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 51 RDC 112 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC 112

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

51 RDC 112 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **666.6** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	666.6	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **12.1** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **12.0** MBH
AHRI Performance Rating **28.000** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **12.9** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **12.0** MBH
AHRI Performance Rating **4.550** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

51 RDC 112 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 51 RDC 112 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC 112

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

51 RDC 112 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **416.7** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	416.7	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **5.8** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **12.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **14.6** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **12.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

52 RDC 113 à 117 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 52 RDC 113 à 117 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC 113 à 117

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

52 RDC 113 à 117 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **2239.7** CFM
Ventilation Airflow **500.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	2239.7	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **40.9** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **60.0** MBH
AHRI Performance Rating **28.000** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **48.2** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **60.0** MBH
AHRI Performance Rating **4.550** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

52 RDC 113 à 117 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 52 RDC 113 à 117 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC 113 à 117

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

52 RDC 113 à 117 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 1465.2 CFM
Ventilation Airflow 500.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	1465.2	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 19.2 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 60.0 MBH
AHRI Performance Rating 14.300 SEER
DX System Configuration 1-stage, 1 compressor, 1 circuit
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 56.6 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 60.0 MBH
AHRI Performance Rating 7.700 HSPF
Cutoff OAT 23.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

53 RDC 118 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 53 RDC 118 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC 118

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

53 RDC 118 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **298.0** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	298.0	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **5.5** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **12.0** MBH
AHRI Performance Rating **28.000** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **7.4** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **12.0** MBH
AHRI Performance Rating **4.550** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

53 RDC 118 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 53 RDC 118 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC 118

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

53 RDC 118 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **208.0** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	208.0	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **2.2** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **12.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **9.0** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **12.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

54 RDC 119 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 54 RDC 119 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC 119

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

54 RDC 119 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 634.2 CFM
Ventilation Airflow 100.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	634.2	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 11.5 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 12.0 MBH
AHRI Performance Rating 28.000 SEER2
DX System Configuration 2-stage, 2 compressors, 2 circuits
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 18.7 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 12.0 MBH
AHRI Performance Rating 4.550 COP
Cutoff OAT -22.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

54 RDC 119 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 54 RDC 119 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC 119

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

54 RDC 119 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **635.2** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	635.2	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **5.1** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **12.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **20.5** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **12.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

55 RDC 120 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 55 RDC 120 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC 120

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

55 RDC 120 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **429.5** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	429.5	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **8.4** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **12.0** MBH
AHRI Performance Rating **28.000** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **7.8** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **12.0** MBH
AHRI Performance Rating **4.550** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

55 RDC 120 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 55 RDC 120 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC 120

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

55 RDC 120 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **220.0** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	220.0	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **4.5** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **12.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **9.4** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **12.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

56 RDC 121 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 56 RDC 121 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC 121

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

56 RDC 121 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **747.9** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	747.9	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **14.1** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **12.0** MBH
AHRI Performance Rating **28.000** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **20.7** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **12.0** MBH
AHRI Performance Rating **4.550** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

56 RDC 121 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 56 RDC 121 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC 121

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

56 RDC 121 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **711.0** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	711.0	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **6.8** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **12.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **22.6** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **12.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

57 RDC 122 à 126 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 57 RDC 122 à 126 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC 122 à 126

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

57 RDC 122 à 126 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 3451.9 CFM
Ventilation Airflow 500.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	3451.9	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 67.2 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 90.0 MBH
AHRI Performance Rating 27.500 SEER2
DX System Configuration 2-stage, 2 compressors, 2 circuits
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 48.3 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 90.0 MBH
AHRI Performance Rating 4.000 COP
Cutoff OAT -22.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

57 RDC 122 à 126 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 57 RDC 122 à 126 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC 122 à 126

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

57 RDC 122 à 126 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 1799.2 CFM
Ventilation Airflow 500.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	1799.2	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 38.7 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 90.0 MBH
AHRI Performance Rating 14.300 SEER
DX System Configuration 1-stage, 1 compressor, 1 circuit
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 56.6 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 90.0 MBH
AHRI Performance Rating 7.700 HSPF
Cutoff OAT 23.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

58 RDC 127 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 58 RDC 127 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC 127

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

58 RDC 127 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **1017.3** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	1017.3	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **19.3** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **18.0** MBH
AHRI Performance Rating **27.500** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **13.0** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **18.0** MBH
AHRI Performance Rating **4.000** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

58 RDC 127 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 58 RDC 127 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC 127

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

58 RDC 127 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **528.9** CFM
Ventilation Airflow **100.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	528.9	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **10.6** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **18.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **14.6** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **18.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

59 RDC 128 et 129 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 59 RDC 128 et 129 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC 128 et 129

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

59 RDC 128 et 129 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **885.1** CFM
Ventilation Airflow **200.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	885.1	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **17.6** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **24.0** MBH
AHRI Performance Rating **28.000** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **14.8** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **24.0** MBH
AHRI Performance Rating **4.550** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

59 RDC 128 et 129 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 59 RDC 128 et 129 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC 128 et 129

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

59 RDC 128 et 129 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 436.2 CFM
Ventilation Airflow 200.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	436.2	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 10.6 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 24.0 MBH
AHRI Performance Rating 14.300 SEER
DX System Configuration 1-stage, 1 compressor, 1 circuit
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 18.0 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 24.0 MBH
AHRI Performance Rating 7.700 HSPF
Cutoff OAT 23.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

60 RDC Atelier CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 60 RDC Atelier CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:
Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC Atelier

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

60 RDC Atelier CPT Input Data

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Sizing Data:

Supply Fan Airflow **351.6** CFM
Ventilation Airflow **0.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	351.6	-	-	-

5. Equipment Data

No equipment data required for this system.

60 RDC Atelier REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 60 RDC Atelier REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:
Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC Atelier

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

60 RDC Atelier REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Sizing Data:

Supply Fan Airflow **353.0** CFM
Ventilation Airflow **0.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	353.0	-	-	-

5. Equipment Data

No equipment data required for this system.

61 RDC Billard CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 61 RDC Billard CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC Billard

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

61 RDC Billard CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **834.5** CFM
Ventilation Airflow **0.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	834.5	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **14.4** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **18.0** MBH
AHRI Performance Rating **27.500** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **18.3** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **18.0** MBH
AHRI Performance Rating **4.000** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

61 RDC Billard REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 61 RDC Billard REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC Billard

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

61 RDC Billard REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **693.2** CFM
Ventilation Airflow **0.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	693.2	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **7.3** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **18.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **18.7** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **18.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

62 RDC Bureau 157 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 62 RDC Bureau 157 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC Bureau 157

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

62 RDC Bureau 157 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **293.0** CFM
Ventilation Airflow **293.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	293.0	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **4.5** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **6.0** MBH
AHRI Performance Rating **25.500** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **9.4** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **6.0** MBH
AHRI Performance Rating **4.200** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

62 RDC Bureau 157 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 62 RDC Bureau 157 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC Bureau 157

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

62 RDC Bureau 157 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 293.0 CFM
Ventilation Airflow 293.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	293.0	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 2.9 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 6.0 MBH
AHRI Performance Rating 14.300 SEER
DX System Configuration 1-stage, 1 compressor, 1 circuit
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 14.0 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 6.0 MBH
AHRI Performance Rating 7.700 HSPF
Cutoff OAT 23.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

63 RDC Bureau 158 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 63 RDC Bureau 158 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC Bureau 158

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

63 RDC Bureau 158 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **166.0** CFM
Ventilation Airflow **166.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	166.0	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **4.8** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **6.0** MBH
AHRI Performance Rating **25.500** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **6.4** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **6.0** MBH
AHRI Performance Rating **4.200** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

63 RDC Bureau 158 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 63 RDC Bureau 158 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC Bureau 158

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

63 RDC Bureau 158 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **166.0** CFM
Ventilation Airflow **166.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	166.0	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **2.5** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **6.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **9.0** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **6.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

64 RDC Bureau 159 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 64 RDC Bureau 159 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC Bureau 159

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

64 RDC Bureau 159 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **154.1** CFM
Ventilation Airflow **133.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	154.1	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **4.5** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **6.0** MBH
AHRI Performance Rating **25.500** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **5.1** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **6.0** MBH
AHRI Performance Rating **4.200** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

64 RDC Bureau 159 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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1. General Details:

Air System Name **64 RDC Bureau 159 REF**
Equipment Type **Split AHU**
Air System Type **Single Zone CAV**
Space Model: **a) Space Model REF**
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control **Constant Ventilation Airflow**
Ventilation Sizing Method **Sum of Space OA Airflows**
Unocc. Damper Position **Closed**
Damper Leak Rate **0** %

Air-to-Air Energy Recovery Data:

Recovery Type **Sensible Heat**
Thermal Efficiency **65** %
Input kW **0.000** kW
Schedule **JFMAMJJASOND**

Central Cooling Data:

Supply Air Temperature **58.0** F
Cooling Source **Air-Cooled DX**
Schedule **JFMAMJJASOND**
Capacity Control **Cycled or Staged Capacity - Fan On**

Central Heating Data:

Supply Temperature **95.0** F
Heating Source **Air Source Heat Pump**
Schedule **JFMAMJJASOND**
Capacity Control **Cycled or Staged Capacity - Fan On**

Supply Fan Data:

Fan Type **Forward Curved**
Configuration **Draw-thru**
Fan Performance **0.00** kW
Fan Control **1-speed, cooling and heating**

Duct System Data:

Supply Duct Data:
Duct Leakage **0** %

Return Duct or Plenum Data:

Return Air Via **Ducted Return**

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC Bureau 159

Number of zones **1**

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule **24h/24h**
Unoccupied Cooling is **Available**

64 RDC Bureau 159 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 133.0 CFM
Ventilation Airflow 133.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	133.0	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 2.4 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 6.0 MBH
AHRI Performance Rating 14.300 SEER
DX System Configuration 1-stage, 1 compressor, 1 circuit
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 7.2 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 6.0 MBH
AHRI Performance Rating 7.700 HSPF
Cutoff OAT 23.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

65 RDC Bureau 160 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 65 RDC Bureau 160 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC Bureau 160

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

65 RDC Bureau 160 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **153.9** CFM
Ventilation Airflow **131.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	153.9	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **4.5** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **6.0** MBH
AHRI Performance Rating **25.500** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **5.0** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **6.0** MBH
AHRI Performance Rating **4.200** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

65 RDC Bureau 160 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 65 RDC Bureau 160 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC Bureau 160

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

65 RDC Bureau 160 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
 Supply Fan Airflow 131.0 CFM
 Ventilation Airflow 131.0 CFM
 Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
 Chilled Water Delta-T 10.0 F
 Hot Water Supply Temperature 140.0 F
 Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
 Cooling Latent 15 %
 Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
 Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	131.0	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 2.4 MBH
 Design OADB 95.0 F
 Design EWB 67.0 F
 Equipment Sizing User-Defined
 Gross Cooling Capacity 6.0 MBH
 AHRI Performance Rating 14.300 SEER
 DX System Configuration 1-stage, 1 compressor, 1 circuit
 Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 7.1 MBH
 Design OADB 47.0 F
 Design EDB 70.0 F
 Equipment Sizing User-Defined
 Gross Heating Capacity 6.0 MBH
 AHRI Performance Rating 7.700 HSPF
 Cutoff OAT 23.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
 Auxiliary Heating Upper Cutoff 70.0 F

66 RDC Bureau 161 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 66 RDC Bureau 161 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC Bureau 161

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

66 RDC Bureau 161 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **153.6** CFM
Ventilation Airflow **130.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	153.6	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **4.4** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **6.0** MBH
AHRI Performance Rating **25.500** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **5.0** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **6.0** MBH
AHRI Performance Rating **4.200** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

66 RDC Bureau 161 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 66 RDC Bureau 161 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC Bureau 161

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

66 RDC Bureau 161 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **130.0** CFM
Ventilation Airflow **130.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	130.0	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **2.4** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **6.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **7.0** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **6.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

67 RDC Poste1 163 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 67 RDC Poste1 163 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC Réception1

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

67 RDC Poste1 163 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **147.0** CFM
Ventilation Airflow **147.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	147.0	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **0.4** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **6.0** MBH
AHRI Performance Rating **25.500** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **2.9** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **6.0** MBH
AHRI Performance Rating **4.200** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

67 RDC Poste1 163 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 67 RDC Poste1 163 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC Réception1

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

67 RDC Poste1 163 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **147.0** CFM
Ventilation Airflow **147.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	147.0	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **0.5** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **6.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **5.2** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **6.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

68 RDC Poste2 162 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 68 RDC Poste2 162 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC Poste2 162

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

68 RDC Poste2 162 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **150.4** CFM
Ventilation Airflow **135.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	150.4	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **4.2** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **6.0** MBH
AHRI Performance Rating **25.500** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **5.2** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **6.0** MBH
AHRI Performance Rating **4.200** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

68 RDC Poste2 162 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 68 RDC Poste2 162 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC Poste2 162

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

68 RDC Poste2 162 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **135.0** CFM
Ventilation Airflow **135.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	135.0	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **2.1** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **6.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **7.3** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **6.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

69 RDC Salle Com. 173 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 69 RDC Salle Com. 173 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC Salons résidents

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

69 RDC Salle Com. 173 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **583.0** CFM
Ventilation Airflow **583.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	583.0	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **8.3** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **48.0** MBH
AHRI Performance Rating **27.000** SEER2
DX System Configuration **2-stage, 2 compressors, 2 circuits**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **23.5** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **48.0** MBH
AHRI Performance Rating **3.900** COP
Cutoff OAT **-22.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

69 RDC Salle Com. 173 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 69 RDC Salle Com. 173 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC Salons résidents

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

69 RDC Salle Com. 173 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **583.0** CFM
Ventilation Airflow **583.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	583.0	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **4.7** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **48.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **32.9** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **48.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

70 RDC salle commune 175 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 70 RDC salle commune 175 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC salle commune 175

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

70 RDC salle commune 175 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 254.1 CFM
Ventilation Airflow 37.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	254.1	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 4.8 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 9.0 MBH
AHRI Performance Rating 30.000 SEER2
DX System Configuration 2-stage, 2 compressors, 2 circuits
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 4.6 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 9.0 MBH
AHRI Performance Rating 4.400 COP
Cutoff OAT -22.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

70 RDC salle commune 175 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 70 RDC salle commune 175 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC salle commune 175

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

70 RDC salle commune 175 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 147.4 CFM
Ventilation Airflow 37.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	147.4	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 2.6 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 9.0 MBH
AHRI Performance Rating 14.300 SEER
DX System Configuration 1-stage, 1 compressor, 1 circuit
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 5.2 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 9.0 MBH
AHRI Performance Rating 7.700 HSPF
Cutoff OAT 23.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

71 RDC SOINS 167 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 71 RDC SOINS 167 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 81 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC SOINS 167

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

71 RDC SOINS 167 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 58.0 F
Supply Fan Airflow 196.0 CFM
Ventilation Airflow 196.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	196.0	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load 4.3 MBH
Design OADB 95.0 F
Design EWB 67.0 F
Equipment Sizing User-Defined
Gross Cooling Capacity 6.0 MBH
AHRI Performance Rating 25.500 SEER2
DX System Configuration 2-stage, 2 compressors, 2 circuits
Low Temperature Cutoff OAT 0.0 F

Central Heating Unit - ASHP

Estimated Maximum Load 7.1 MBH
Design OADB 47.0 F
Design EDB 70.0 F
Equipment Sizing User-Defined
Gross Heating Capacity 6.0 MBH
AHRI Performance Rating 4.200 COP
Cutoff OAT -22.0 F

Auxiliary Heating:

Auxiliary Heating Type Electric Resistance
Auxiliary Heating Upper Cutoff 70.0 F

71 RDC SOINS 167 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 71 RDC SOINS 167 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Air-to-Air Energy Recovery Data:

Recovery Type Sensible Heat
Thermal Efficiency 65 %
Input kW 0.000 kW
Schedule JFMAMJJASOND

Central Cooling Data:

Supply Air Temperature 58.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Air Source Heat Pump
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC SOINS 167

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

71 RDC SOINS 167 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **58.0** F
Supply Fan Airflow **196.0** CFM
Ventilation Airflow **196.0** CFM
Heating Supply Temperature **95.0** F

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	196.0	-	-	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **1.4** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **6.0** MBH
AHRI Performance Rating **14.300** SEER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **10.3** MBH
Design OADB **47.0** F
Design EDB **70.0** F
Equipment Sizing **User-Defined**
Gross Heating Capacity **6.0** MBH
AHRI Performance Rating **7.700** HSPF
Cutoff OAT **23.0** F

Auxiliary Heating:

Auxiliary Heating Type **Electric Resistance**
Auxiliary Heating Upper Cutoff **70.0** F

72 SAS/Corridor CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name **72 SAS/Corridor CPT**
Equipment Type **Split AHU**
Air System Type **VAV**
Space Model: **b) Space Model CPT**
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control **Constant Ventilation Airflow**
Ventilation Sizing Method **Sum of Space OA Airflows**
Unocc. Damper Position **Closed**
Damper Leak Rate **0** %

Preheat Coil Data:

Setpoint **50.0** F
Heating Source **Electric Resistance**
Schedule **JFMAMJJASOND**
Coil position **Downstream of Mixing Point**

Central Cooling Data:

Supply Air Temperature **55.0** F
Cooling Source **Air-Cooled DX**
Schedule **JFMAMJJASOND**
Capacity Control **Constant Temperature - Fan On**

Supply Fan Data:

Fan Type **Forward Curved**
Configuration **Draw-thru**
Fan Performance **0.00** kW

% Airflow	100	90	80	70	60	50
% kW	100	91	81	72	61	54

% Airflow	40	30	20	10	0
% kW	46	40	33	27	21

Duct System Data:

Supply Duct Data:

Duct Leakage **0** %

Return Duct or Plenum Data:

Return Air Via **Ducted Return**

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E corridor
2	3E corridor 300
3	4E corridor 400
4	RDC Corridor
5	RDC Corridor 100
6	RDC Corridor 100A
7	RDC Hall/Vestibule 170/171
8	RDC Vestibule 001
9	RDC Vestibule100C

Number of zones **9**

72 SAS/Corridor CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0
2	75.0	80.0	70.0	65.0	1.50	100	0.0
3	75.0	80.0	70.0	65.0	1.50	100	0.0
4	75.0	80.0	70.0	65.0	1.50	100	0.0
5	75.0	80.0	70.0	65.0	1.50	100	0.0
6	75.0	80.0	70.0	65.0	1.50	100	0.0
7	75.0	80.0	70.0	65.0	1.50	100	0.0
8	75.0	80.0	70.0	65.0	1.50	100	0.0
9	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	VAV box with RH (Dual Maximum)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	95.0 F	-	-
2	VAV box with RH (Dual Maximum)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	95.0 F	-	-
3	VAV box with RH (Dual Maximum)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	95.0 F	-	-
4	VAV box with RH (Dual Maximum)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	95.0 F	-	-
5	VAV box with RH (Dual Maximum)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	95.0 F	-	-
6	VAV box with RH (Dual Maximum)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	95.0 F	-	-
7	VAV box with RH (Dual Maximum)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	95.0 F	-	-
8	VAV box with RH (Dual Maximum)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	95.0 F	-	-
9	VAV box with RH (Dual Maximum)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	95.0 F	-	-

Reheat Coil Source Electric Resistance
Reheat Coil Schedule JFMAMJJASOND

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 55.0 F
Supply Fan Airflow 2605.4 CFM
Ventilation Airflow 326.7 CFM

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

72 SAS/Corridor CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Peak zone sensible load**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	382.1	-	4.5	-
2	418.8	-	4.5	-
3	572.0	-	16.7	-
4	119.3	-	0.0	-
5	232.3	-	5.7	-
6	12.3	-	0.3	-
7	1797.4	-	51.1	-
8	349.8	-	15.0	-
9	174.7	-	3.2	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **57.4** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **1.0** MBH
AHRI Performance Rating **11.000** EER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

72 SAS/Corridor REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name **72 SAS/Corridor REF**
Equipment Type **Split AHU**
Air System Type **VAV**
Space Model: **a) Space Model REF**
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control **Constant Ventilation Airflow**
Ventilation Sizing Method **Sum of Space OA Airflows**
Unocc. Damper Position **Closed**
Damper Leak Rate **0** %

Preheat Coil Data:

Setpoint **50.0** F
Heating Source **Electric Resistance**
Schedule **JFMAMJJASOND**
Coil position **Downstream of Mixing Point**

Central Cooling Data:

Supply Air Temperature **55.0** F
Cooling Source **Air-Cooled DX**
Schedule **JFMAMJJASOND**
Capacity Control **Constant Temperature - Fan On**

Supply Fan Data:

Fan Type **Forward Curved**
Configuration **Draw-thru**
Fan Performance **0.00** kW

% Airflow	100	90	80	70	60	50
% kW	100	91	81	72	61	54

% Airflow	40	30	20	10	0
% kW	46	40	33	27	21

Duct System Data:

Supply Duct Data:

Duct Leakage **0** %

Return Duct or Plenum Data:

Return Air Via **Ducted Return**

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E corridor
2	3E corridor 300
3	4E corridor 400
4	RDC Corridor
5	RDC Corridor 100
6	RDC Corridor 100A
7	RDC Hall/Vestibule 170/171
8	RDC Vestibule 001
9	RDC Vestibule100C

Number of zones **9**

72 SAS/Corridor REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0
2	75.0	80.0	70.0	65.0	1.50	100	0.0
3	75.0	80.0	70.0	65.0	1.50	100	0.0
4	75.0	80.0	70.0	65.0	1.50	100	0.0
5	75.0	80.0	70.0	65.0	1.50	100	0.0
6	75.0	80.0	70.0	65.0	1.50	100	0.0
7	75.0	80.0	70.0	65.0	1.50	100	0.0
8	75.0	80.0	70.0	65.0	1.50	100	0.0
9	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	VAV box with RH (Dual Maximum)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	95.0 F	-	-
2	VAV box with RH (Dual Maximum)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	95.0 F	-	-
3	VAV box with RH (Dual Maximum)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	95.0 F	-	-
4	VAV box with RH (Dual Maximum)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	95.0 F	-	-
5	VAV box with RH (Dual Maximum)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	95.0 F	-	-
6	VAV box with RH (Dual Maximum)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	95.0 F	-	-
7	VAV box with RH (Dual Maximum)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	95.0 F	-	-
8	VAV box with RH (Dual Maximum)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	95.0 F	-	-
9	VAV box with RH (Dual Maximum)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	95.0 F	-	-

Reheat Coil Source Electric Resistance
Reheat Coil Schedule JFMAMJJASOND

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature 55.0 F
Supply Fan Airflow 1798.9 CFM
Ventilation Airflow 326.7 CFM

Hydronic Sizing Specifications:

Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

72 SAS/Corridor REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Safety Factors:

Cooling Sensible **15** %
 Cooling Latent **15** %
 Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Peak zone sensible load**
 Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	236.6	-	5.7	-
2	251.3	-	5.7	-
3	429.4	-	14.6	-
4	83.9	-	0.0	-
5	138.8	-	4.7	-
6	12.3	-	0.3	-
7	1219.9	-	41.4	-
8	349.9	-	11.9	-
9	89.7	-	3.0	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **37.1** MBH
 Design OADB **95.0** F
 Design EWB **67.0** F
 Equipment Sizing **User-Defined**
 Gross Cooling Capacity **1.0** MBH
 AHRI Performance Rating **11.000** EER
 DX System Configuration **1-stage, 1 compressor, 1 circuit**
 Low Temperature Cutoff OAT **0.0** F

73 169/ 170 / Corridor 100 et 2E HALL 170 CPT Input Data

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1. General Details:

Air System Name 73 169/ 170 / Corridor 100 et 2E HALL 170 CPT
Equipment Type Split AHU
Air System Type VAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Preheat Coil Data:

Setpoint 50.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Coil position Downstream of Mixing Point

Central Cooling Data:

Supply Air Temperature 55.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Constant Temperature - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW

% Airflow	100	90	80	70	60	50
% kW	100	91	81	72	61	54

% Airflow	40	30	20	10	0
% kW	46	40	33	27	21

Duct System Data:

Supply Duct Data:

Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E Hall 170
2	RDC 169 / 170 / Corridor 100

Number of zones 2

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0
2	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

73 169/ 170 / Corridor 100 et 2E HALL 170 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	VAV box with RH (Dual Maximum)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	95.0 F	-	-
2	VAV box with RH (Dual Maximum)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	95.0 F	-	-

Reheat Coil Source **Electric Resistance**
Reheat Coil Schedule **JFMAMJJASOND**

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **55.0** F
Supply Fan Airflow **546.1** CFM
Ventilation Airflow **220.0** CFM

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Peak zone sensible load**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	43.5	-	1.2	-
2	511.5	-	24.5	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **12.4** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **8.0** MBH
AHRI Performance Rating **11.000** EER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

73 169/ 170 / Corridor 100 et 2E HALL 170 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 73 169/ 170 / Corridor 100 et 2E HALL 170 REF
Equipment Type Split AHU
Air System Type VAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Preheat Coil Data:

Setpoint 50.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Coil position Downstream of Mixing Point

Central Cooling Data:

Supply Air Temperature 55.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Constant Temperature - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW

% Airflow	100	90	80	70	60	50
% kW	100	91	81	72	61	54

% Airflow	40	30	20	10	0
% kW	46	40	33	27	21

Duct System Data:

Supply Duct Data:

Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E Hall 170
2	RDC 169 / 170 / Corridor 100

Number of zones 2

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0
2	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

73 169/ 170 / Corridor 100 et 2E HALL 170 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	VAV box with RH (Dual Maximum)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	95.0 F	-	-
2	VAV box with RH (Dual Maximum)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	95.0 F	-	-

Reheat Coil Source **Electric Resistance**
Reheat Coil Schedule **JFMAMJJASOND**

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **55.0** F
Supply Fan Airflow **540.1** CFM
Ventilation Airflow **220.0** CFM

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Peak zone sensible load**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	40.0	-	1.4	-
2	516.3	-	24.4	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **12.4** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **8.0** MBH
AHRI Performance Rating **11.000** EER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

74 RDC Passage couvert 176 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 74 RDC Passage couvert 176 CPT
Equipment Type Split AHU
Air System Type VAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Preheat Coil Data:

Setpoint 50.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Coil position Downstream of Mixing Point

Central Cooling Data:

Supply Air Temperature 55.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Constant Temperature - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW

% Airflow	100	90	80	70	60	50
% kW	100	91	81	72	61	54

% Airflow	40	30	20	10	0
% kW	46	40	33	27	21

Duct System Data:

Supply Duct Data:

Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC Passage couvert 176

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

74 RDC Passage couvert 176 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	VAV box with RH (Dual Maximum)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	95.0 F	-	-

Reheat Coil Source **Electric Resistance**
Reheat Coil Schedule **JFMAMJJASOND**

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **55.0** F
Supply Fan Airflow **3106.4** CFM
Ventilation Airflow **58.8** CFM

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Peak zone sensible load**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	3106.4	-	105.5	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **66.4** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **48.0** MBH
AHRI Performance Rating **11.000** EER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

74 RDC Passage couvert 176 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 74 RDC Passage couvert 176 REF
Equipment Type Split AHU
Air System Type VAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Preheat Coil Data:

Setpoint 50.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Coil position Downstream of Mixing Point

Central Cooling Data:

Supply Air Temperature 55.0 F
Cooling Source Air-Cooled DX
Schedule JFMAMJJASOND
Capacity Control Constant Temperature - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW

% Airflow	100	90	80	70	60	50
% kW	100	91	81	72	61	54

% Airflow	40	30	20	10	0
% kW	46	40	33	27	21

Duct System Data:

Supply Duct Data:

Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC Passage couvert 176

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

74 RDC Passage couvert 176 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	VAV box with RH (Dual Maximum)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	95.0 F	-	-

Reheat Coil Source **Electric Resistance**
Reheat Coil Schedule **JFMAMJJASOND**

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Cooling Supply Temperature **55.0** F
Supply Fan Airflow **2505.8** CFM
Ventilation Airflow **58.8** CFM

Hydronic Sizing Specifications:

Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Peak zone sensible load**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	2505.8	-	108.2	-

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **35.4** MBH
Design OADB **95.0** F
Design EWB **67.0** F
Equipment Sizing **User-Defined**
Gross Cooling Capacity **48.0** MBH
AHRI Performance Rating **11.000** EER
DX System Configuration **1-stage, 1 compressor, 1 circuit**
Low Temperature Cutoff OAT **0.0** F

75 2E ESC1 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 75 2E ESC1 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E ESC1

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:
Supply Fan Airflow 70.0 CFM
Ventilation Airflow 0.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

75 2E ESC1 CPT Input Data

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Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	70.0	-	-	-

5. Equipment Data

No equipment data required for this system.

75 2E ESC1 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. General Details:

Air System Name 75 2E ESC1 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E ESC1

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:
Supply Fan Airflow 71.2 CFM
Ventilation Airflow 0.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

75 2E ESC1 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	71.2	-	-	-

5. Equipment Data

No equipment data required for this system.

76 2E ESC2 / 2E Rang. 255 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 76 2E ESC2 / 2E Rang. 255 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:
Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E ESC2 / 2E Rang. 255

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:
Supply Fan Airflow 74.8 CFM
Ventilation Airflow 0.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

76 2E ESC2 / 2E Rang. 255 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	74.8	-	-	-

5. Equipment Data

No equipment data required for this system.

76 2E ESC2 / 2E Rang. 255 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 76 2E ESC2 / 2E Rang. 255 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:
Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E ESC2 / 2E Rang. 255

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:
Supply Fan Airflow 76.1 CFM
Ventilation Airflow 0.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

76 2E ESC2 / 2E Rang. 255 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	76.1	-	-	-

5. Equipment Data

No equipment data required for this system.

77 2E ESC3 et 2E Rang. 254 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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1. General Details:

Air System Name 77 2E ESC3 et 2E Rang. 254 CPT
 Equipment Type Split AHU
 Air System Type Single Zone CAV
 Space Model: b) Space Model CPT
 Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
 Ventilation Sizing Method Sum of Space OA Airflows
 Unocc. Damper Position Closed
 Damper Leak Rate 0 %

Central Heating Data:

Supply Temperature 95.0 F
 Heating Source Electric Resistance
 Schedule JFMAMJJASOND
 Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
 Configuration Draw-thru
 Fan Performance 0.00 kW
 Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
 Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E ESC3 et 2E Rang. 254

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
 Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:
 Supply Fan Airflow 75.6 CFM
 Ventilation Airflow 0.0 CFM
 Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

77 2E ESC3 et 2E Rang. 254 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	75.6	-	-	-

5. Equipment Data

No equipment data required for this system.

77 2E ESC3 et 2E Rang. 254 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 77 2E ESC3 et 2E Rang. 254 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E ESC3 et 2E Rang. 254

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:
Supply Fan Airflow 77.0 CFM
Ventilation Airflow 0.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

77 2E ESC3 et 2E Rang. 254 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	77.0	-	-	-

5. Equipment Data

No equipment data required for this system.

78 2E Rang. 256 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 78 2E Rang. 256 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E Rang. 256

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:
Supply Fan Airflow 7.7 CFM
Ventilation Airflow 0.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

78 2E Rang. 256 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	7.7	-	-	-

5. Equipment Data

No equipment data required for this system.

78 2E Rang. 256 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 78 2E Rang. 256 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:

Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	2E Rang. 256

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Supply Fan Airflow 7.9 CFM
Ventilation Airflow 0.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

78 2E Rang. 256 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	7.9	-	-	-

5. Equipment Data

No equipment data required for this system.

79 3E ESC1 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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1. General Details:

Air System Name 79 3E ESC1 CPT
 Equipment Type Split AHU
 Air System Type Single Zone CAV
 Space Model: b) Space Model CPT
 Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
 Ventilation Sizing Method Sum of Space OA Airflows
 Unocc. Damper Position Closed
 Damper Leak Rate 0 %

Central Heating Data:

Supply Temperature 95.0 F
 Heating Source Electric Resistance
 Schedule JFMAMJJASOND
 Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
 Configuration Draw-thru
 Fan Performance 0.00 kW
 Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
 Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	3E ESC1

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
 Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:
 Supply Fan Airflow 70.2 CFM
 Ventilation Airflow 0.0 CFM
 Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

79 3E ESC1 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	70.2	-	-	-

5. Equipment Data

No equipment data required for this system.

79 3E ESC1 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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1. General Details:

Air System Name 79 3E ESC1 REF
 Equipment Type Split AHU
 Air System Type Single Zone CAV
 Space Model: a) Space Model REF
 Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
 Ventilation Sizing Method Sum of Space OA Airflows
 Unocc. Damper Position Closed
 Damper Leak Rate 0 %

Central Heating Data:

Supply Temperature 95.0 F
 Heating Source Electric Resistance
 Schedule JFMAMJJASOND
 Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
 Configuration Draw-thru
 Fan Performance 0.00 kW
 Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
 Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	3E ESC1

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
 Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:
 Supply Fan Airflow 71.3 CFM
 Ventilation Airflow 0.0 CFM
 Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

79 3E ESC1 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	71.3	-	-	-

5. Equipment Data

No equipment data required for this system.

80 3E ESC2 350 / 3E Rang. 355 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 80 3E ESC2 350 / 3E Rang. 355 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:

Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	3E ESC2 350 / 3E Rang. 355

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Supply Fan Airflow 75.4 CFM
Ventilation Airflow 0.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

80 3E ESC2 350 / 3E Rang. 355 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	75.4	-	-	-

5. Equipment Data

No equipment data required for this system.

80 3E ESC2 350 / 3E Rang. 355 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 80 3E ESC2 350 / 3E Rang. 355 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:

Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	3E ESC2 350 / 3E Rang. 355

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Supply Fan Airflow 76.6 CFM
Ventilation Airflow 0.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

80 3E ESC2 350 / 3E Rang. 355 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	76.6	-	-	-

5. Equipment Data

No equipment data required for this system.

81 3E ESC3 / 3E Rang. 354 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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1. General Details:

Air System Name 81 3E ESC3 / 3E Rang. 354 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:

Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	3E ESC3 / 3E Rang. 354

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h

Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Supply Fan Airflow 75.8 CFM
Ventilation Airflow 0.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

81 3E ESC3 / 3E Rang. 354 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	75.8	-	-	-

5. Equipment Data

No equipment data required for this system.

81 3E ESC3 / 3E Rang. 354 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

Prepared by: Groupe CMI

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1. General Details:

Air System Name 81 3E ESC3 / 3E Rang. 354 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:

Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	3E ESC3 / 3E Rang. 354

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h

Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Supply Fan Airflow 77.1 CFM
Ventilation Airflow 0.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

81 3E ESC3 / 3E Rang. 354 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	77.1	-	-	-

5. Equipment Data

No equipment data required for this system.

82 3E Rang. 356 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 82 3E Rang. 356 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	3E Rang. 356

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:
Supply Fan Airflow 7.8 CFM
Ventilation Airflow 0.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

82 3E Rang. 356 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	7.8	-	-	-

5. Equipment Data

No equipment data required for this system.

82 3E Rang. 356 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 82 3E Rang. 356 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:

Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	3E Rang. 356

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Supply Fan Airflow 8.0 CFM
Ventilation Airflow 0.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

82 3E Rang. 356 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	8.0	-	-	-

5. Equipment Data

No equipment data required for this system.

83 4E ESC1 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 83 4E ESC1 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:
Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E ESC1

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:
Supply Fan Airflow 99.7 CFM
Ventilation Airflow 0.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

83 4E ESC1 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

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Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	99.7	-	-	-

5. Equipment Data

No equipment data required for this system.

83 4E ESC1 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 83 4E ESC1 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:
Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E ESC1

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:
Supply Fan Airflow 100.7 CFM
Ventilation Airflow 0.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

83 4E ESC1 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	100.7	-	-	-

5. Equipment Data

No equipment data required for this system.

84 4E ESC2 / 4E Conciergerie 455 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 84 4E ESC2 / 4E Conciergerie 455 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:

Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E ESC2 / 4E Conciergerie 455

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Supply Fan Airflow 112.7 CFM
Ventilation Airflow 0.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

84 4E ESC2 / 4E Conciergerie 455 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	112.7	-	-	-

5. Equipment Data

No equipment data required for this system.

84 4E ESC2 / 4E Conciergerie 455 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

03/02/2026
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1. General Details:

Air System Name 84 4E ESC2 / 4E Conciergerie 455 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:

Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E ESC2 / 4E Conciergerie 455

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Supply Fan Airflow 113.8 CFM
Ventilation Airflow 0.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

84 4E ESC2 / 4E Conciergerie 455 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

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Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	113.8	-	-	-

5. Equipment Data

No equipment data required for this system.

85 4E ESC3 / 4E Rang. 454 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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1. General Details:

Air System Name 85 4E ESC3 / 4E Rang. 454 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:

Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E ESC3 / 4E Rang. 454

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h

Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Supply Fan Airflow 140.1 CFM
Ventilation Airflow 0.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

85 4E ESC3 / 4E Rang. 454 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	140.1	-	-	-

5. Equipment Data

No equipment data required for this system.

85 4E ESC3 / 4E Rang. 454 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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1. General Details:

Air System Name 85 4E ESC3 / 4E Rang. 454 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:

Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E ESC3 / 4E Rang. 454

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h

Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Supply Fan Airflow 141.3 CFM
Ventilation Airflow 0.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

85 4E ESC3 / 4E Rang. 454 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	141.3	-	-	-

5. Equipment Data

No equipment data required for this system.

86 4E Rang. 456 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

03/02/2026
1:22 PM

1. General Details:

Air System Name 86 4E Rang. 456 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:

Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E Rang. 456

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Supply Fan Airflow 28.1 CFM
Ventilation Airflow 0.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

86 4E Rang. 456 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	28.1	-	-	-

5. Equipment Data

No equipment data required for this system.

86 4E Rang. 456 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 86 4E Rang. 456 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	4E Rang. 456

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:
Supply Fan Airflow 28.2 CFM
Ventilation Airflow 0.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

86 4E Rang. 456 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	28.2	-	-	-

5. Equipment Data

No equipment data required for this system.

87 RDC EAU CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 87 RDC EAU CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC EAU

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:
Supply Fan Airflow 37.0 CFM
Ventilation Airflow 0.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

87 RDC EAU CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	37.0	-	-	-

5. Equipment Data

No equipment data required for this system.

87 RDC EAU REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 87 RDC EAU REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:

Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC EAU

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Supply Fan Airflow 37.1 CFM
Ventilation Airflow 0.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

87 RDC EAU REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	37.1	-	-	-

5. Equipment Data

No equipment data required for this system.

88 RDC ESC1 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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1. General Details:

Air System Name 88 RDC ESC1 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:

Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC ESC1

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Supply Fan Airflow 145.8 CFM
Ventilation Airflow 0.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

88 RDC ESC1 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	145.8	-	-	-

5. Equipment Data

No equipment data required for this system.

88 RDC ESC1 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:22 PM

1. General Details:

Air System Name 88 RDC ESC1 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:

Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC ESC1

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h

Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:

Supply Fan Airflow 145.9 CFM
Ventilation Airflow 0.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

88 RDC ESC1 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	145.9	-	-	-

5. Equipment Data

No equipment data required for this system.

89 RDC ESC2 / RDC Conciergerie 155 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

03/02/2026
1:22 PM

1. General Details:

Air System Name 89 RDC ESC2 / RDC Conciergerie 155 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC ESC2 / RDC Conciergerie 155

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:
Supply Fan Airflow 160.9 CFM
Ventilation Airflow 0.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

89 RDC ESC2 / RDC Conciergerie 155 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	160.9	-	-	-

5. Equipment Data

No equipment data required for this system.

89 RDC ESC2 / RDC Conciergerie 155 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 89 RDC ESC2 / RDC Conciergerie 155 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:
Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC ESC2 / RDC Conciergerie 155

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:
Supply Fan Airflow 161.0 CFM
Ventilation Airflow 0.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

89 RDC ESC2 / RDC Conciergerie 155 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	161.0	-	-	-

5. Equipment Data

No equipment data required for this system.

90 RDC ESC3 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

03/02/2026
1:22 PM

1. General Details:

Air System Name 90 RDC ESC3 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:
Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC ESC3

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:
Supply Fan Airflow 139.6 CFM
Ventilation Airflow 0.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

90 RDC ESC3 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

03/02/2026
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Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	139.6	-	-	-

5. Equipment Data

No equipment data required for this system.

90 RDC ESC3 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

03/02/2026
1:22 PM

1. General Details:

Air System Name 90 RDC ESC3 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:
Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC ESC3

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:
Supply Fan Airflow 139.7 CFM
Ventilation Airflow 0.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

90 RDC ESC3 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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Chilled Water Supply Temperature **44.0** F
Chilled Water Delta-T **10.0** F
Hot Water Supply Temperature **140.0** F
Hot Water Delta-T **20.0** F

Safety Factors:

Cooling Sensible **15** %
Cooling Latent **15** %
Heating **15** %

Zone Sizing Data:

Zone Airflow Sizing Method **Sum of space airflow rates**
Space Airflow Sizing Method **Individual peak space loads**

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	139.7	-	-	-

5. Equipment Data

No equipment data required for this system.

91 RDC Méc 154 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 91 RDC Méc 154 CPT
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: b) Space Model CPT
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC Méc 154

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:
Supply Fan Airflow 36.5 CFM
Ventilation Airflow 0.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

91 RDC Méc 154 CPT Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	36.5	-	-	-

5. Equipment Data

No equipment data required for this system.

91 RDC Méc 154 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. General Details:

Air System Name 91 RDC Méc 154 REF
Equipment Type Split AHU
Air System Type Single Zone CAV
Space Model: a) Space Model REF
Notes:

2. System Components:

Ventilation Air Data:

Airflow Control Constant Ventilation Airflow
Ventilation Sizing Method Sum of Space OA Airflows
Unocc. Damper Position Closed
Damper Leak Rate 0 %

Central Heating Data:

Supply Temperature 95.0 F
Heating Source Electric Resistance
Schedule JFMAMJJASOND
Capacity Control Cycled or Staged Capacity - Fan On

Supply Fan Data:

Fan Type Forward Curved
Configuration Draw-thru
Fan Performance 0.00 kW
Fan Control 1-speed, cooling and heating

Duct System Data:

Supply Duct Data:
Duct Leakage 0 %

Return Duct or Plenum Data:

Return Air Via Ducted Return

3. Zone Components:

Assigned Zones:

Zone	Zone Name
1	RDC Méc 154

Number of zones 1

Thermostats and Zone Data:

Zone	Cooling T-Stat Occ. (F)	Cooling T-Stat Unocc. (F)	Heating T-Stat Occ. (F)	Heating T-Stat Unocc. (F)	T-Stat Throttling Range (F)	Diversity Factor (%)	Direct Exhaust Fan (kW)
1	75.0	80.0	70.0	65.0	1.50	100	0.0

Thermostat Schedule 24h/24h
Unoccupied Cooling is Available

Supply Terminals Data:

Zone	Terminal Type	Air Distribution	Air Distribution Effectiveness Specification	Air Distribution Effectiveness	Minimum Airflow	Design Supply Temp.	Fan Perf.	Fan Efficiency
1	Diffuser (no reheat)	Ceiling supply / ceiling return	Not Used	-	0.00 CFM/person	-	-	-

4. Sizing Data (Computer-Generated):

System Sizing Data:

Sizing Data:
Supply Fan Airflow 36.6 CFM
Ventilation Airflow 0.0 CFM
Heating Supply Temperature 95.0 F

Hydronic Sizing Specifications:

91 RDC Méc 154 REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Chilled Water Supply Temperature 44.0 F
Chilled Water Delta-T 10.0 F
Hot Water Supply Temperature 140.0 F
Hot Water Delta-T 20.0 F

Safety Factors:

Cooling Sensible 15 %
Cooling Latent 15 %
Heating 15 %

Zone Sizing Data:

Zone Airflow Sizing Method Sum of space airflow rates
Space Airflow Sizing Method Individual peak space loads

Zone	Supply Airflow (CFM)	Zone Htg Unit (MBH)	Reheat Coil (MBH)	FPMBX Fan (CFM)
1	36.6	-	-	-

5. Equipment Data

No equipment data required for this system.

a) Alternative REF Input Data

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
 Prepared by: Groupe CMI

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1. General Details:

Name a) Alternative REF
 Energy Sim. Status Calculated
 Baseline-90° Status Not Calculated
 Baseline-180° Status Not Calculated
 Baseline-270° Status Not Calculated

2. Plants Included in this Alternative:

(none)

3. Air Systems Included in this Alternative:

Air System	# Zones
01 2E 201 REF	1
02 2E 202 à 204 REF	1
03 2E 205 REF	1
04 2E 207 et 206 REF	1
05 2E 208 REF	1
06 2E 209 REF	1
07 2E 210 à 214 REF	1
08 2E 215 et 216 REF	1
09 2E 217 REF	1
10 2E 218 et 219 REF	1
11 2E 220 REF	1
12 2E 221 à 225 REF	1
13 2E 226 REF	1
14 2E 227 REF	1
15 2E 228 REF	1
16 2E 229 REF	1
17 2E 230 à 234 REF	1
18 2E 235 REF	1
19 2E 236 et 237 REF	1
20 2E salle commune 257 REF	1
21 3E 301 à 308 REF	1
22 3E 309 à 328 REF	1
23 3E 329 et 330 REF	1
24 3E 331 à 338 REF	1
25 3E salle commune 357 REF	1
26 4E 401 REF	1
27 4E 402 à 404 REF	1
28 4E 405 REF	1
29 4E 406 et 407 REF	1
30 4E 408 REF	1
31 4E 409 REF	1
32 4E 410 à 417 REF	1
33 4E 418 REF	1
34 4E 419 et 420 REF	1
35 4E 421 REF	1
36 4E 422 à 426 REF	1
37 4E 427 REF	1
38 4E 428 REF	1
39 4E 429 REF	1
40 4E 430 REF	1
41 4E 431 à 435 REF	1
42 4E 436 REF	1
43 4E 437 et 438 REF	1
44 4E salle commune 457 REF	1
45 RDC 101 REF	1
46 RDC 102 et 103 REF	1
47 RDC 104 REF	1

a) Alternative REF Input Data

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48 RDC 105 REF	1
49 RDC 106 à 109 REF	1
50 RDC 110 et 111 REF	1
51 RDC 112 REF	1
52 RDC 113 à 117 REF	1
53 RDC 118 REF	1
54 RDC 119 REF	1
55 RDC 120 REF	1
56 RDC 121 REF	1
57 RDC 122 à 126 REF	1
58 RDC 127 REF	1
59 RDC 128 et 129 REF	1
60 RDC Atelier REF	1
61 RDC Billard REF	1
62 RDC Bureau 157 REF	1
63 RDC Bureau 158 REF	1
64 RDC Bureau 159 REF	1
65 RDC Bureau 160 REF	1
66 RDC Bureau 161 REF	1
67 RDC Poste1 163 REF	1
68 RDC Poste2 162 REF	1
69 RDC Salle Com. 173 REF	1
70 RDC salle commune 175 REF	1
71 RDC SOINS 167 REF	1
72 SAS/Corridor REF	9
73 169/ 170 / Corridor 100 et 2E HALL 170 REF	2
74 RDC Passage couvert 176 REF	1
75 2E ESC1 REF	1
76 2E ESC2 / 2E Rang. 255 REF	1
77 2E ESC3 et 2E Rang. 254 REF	1
78 2E Rang. 256 REF	1
79 3E ESC1 REF	1
80 3E ESC2 350 / 3E Rang. 355 REF	1
81 3E ESC3 / 3E Rang. 354 REF	1
82 3E Rang. 356 REF	1
83 4E ESC1 REF	1
84 4E ESC2 / 4E Conciergerie 455 REF	1
85 4E ESC3 / 4E Rang. 454 REF	1
86 4E Rang. 456 REF	1
87 RDC EAU REF	1
88 RDC ESC1 REF	1
89 RDC ESC2 / RDC Conciergerie 155 REF	1
90 RDC ESC3 REF	1
91 RDC Méc 154 REF	1

4. Space Models Included in this Alternative:

Summary Calculation Status:

Design Sizing Calculated
Energy Simulation Calculated

Space Model: a) Space Model REF (for building1)

Design Sizing Calculated
Energy Simulation Calculated

Zone	Air System
2E 201	01 2E 201 REF
2E 202 à 204	02 2E 202 à 204 REF
2E 205	03 2E 205 REF
2E 207 et 206	04 2E 207 et 206 REF
2E 208	05 2E 208 REF
2E 209	06 2E 209 REF

a) Alternative REF Input Data

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2E 210 à 214	07 2E 210 à 214 REF
2E 215 et 216	08 2E 215 et 216 REF
2E 217	09 2E 217 REF
2E 218 et 219	10 2E 218 et 219 REF
2E 220	11 2E 220 REF
2E 221 à 225	12 2E 221 à 225 REF
2E 226	13 2E 226 REF
2E 227	14 2E 227 REF
2E 228	15 2E 228 REF
2E 229	16 2E 229 REF
2E 230 à 234	17 2E 230 à 234 REF
2E 235	18 2E 235 REF
2E 236 et 237	19 2E 236 et 237 REF
2E corridor	72 SAS/Corridor REF
2E ESC1	75 2E ESC1 REF
2E ESC2 / 2E Rang. 255	76 2E ESC2 / 2E Rang. 255 REF
2E ESC3 et 2E Rang. 254	77 2E ESC3 et 2E Rang. 254 REF
2E Hall 170	73 169/ 170 / Corridor 100 et 2E HALL 170 REF
2E Rang. 256	78 2E Rang. 256 REF
2E salle commune 257	20 2E salle commune 257 REF
3E 301 à 308	21 3E 301 à 308 REF
3E 309 à 328	22 3E 309 à 328 REF
3E 329 et 330	23 3E 329 et 330 REF
3E 331 à 338	24 3E 331 à 338 REF
3E corridor 300	72 SAS/Corridor REF
3E ESC1	79 3E ESC1 REF
3E ESC2 350 / 3E Rang. 355	80 3E ESC2 350 / 3E Rang. 355 REF
3E ESC3 / 3E Rang. 354	81 3E ESC3 / 3E Rang. 354 REF
3E Rang. 356	82 3E Rang. 356 REF
3E salle commune 357	25 3E salle commune 357 REF
4E 401	26 4E 401 REF
4E 402 à 404	27 4E 402 à 404 REF
4E 405	28 4E 405 REF
4E 406 et 407	29 4E 406 et 407 REF
4E 408	30 4E 408 REF
4E 409	31 4E 409 REF
4E 410 à 417	32 4E 410 à 417 REF
4E 418	33 4E 418 REF
4E 419 et 420	34 4E 419 et 420 REF
4E 421	35 4E 421 REF
4E 422 à 426	36 4E 422 à 426 REF
4E 427	37 4E 427 REF
4E 428	38 4E 428 REF
4E 429	39 4E 429 REF
4E 430	40 4E 430 REF
4E 431 à 435	41 4E 431 à 435 REF
4E 436	42 4E 436 REF
4E 437 et 438	43 4E 437 et 438 REF
4E corridor 400	72 SAS/Corridor REF
4E ESC1	83 4E ESC1 REF
4E ESC2 / 4E Conciergerie 455	84 4E ESC2 / 4E Conciergerie 455 REF
4E ESC3 / 4E Rang. 454	85 4E ESC3 / 4E Rang. 454 REF
4E Rang. 456	86 4E Rang. 456 REF
4E salle commune 457	44 4E salle commune 457 REF
RDC 101	45 RDC 101 REF
RDC 102 et 103	46 RDC 102 et 103 REF
RDC 104	47 RDC 104 REF
RDC 105	48 RDC 105 REF
RDC 106 à 109	49 RDC 106 à 109 REF

a) Alternative REF Input Data

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RDC 110 et 111	50 RDC 110 et 111 REF
RDC 112	51 RDC 112 REF
RDC 113 à 117	52 RDC 113 à 117 REF
RDC 118	53 RDC 118 REF
RDC 119	54 RDC 119 REF
RDC 120	55 RDC 120 REF
RDC 121	56 RDC 121 REF
RDC 122 à 126	57 RDC 122 à 126 REF
RDC 127	58 RDC 127 REF
RDC 128 et 129	59 RDC 128 et 129 REF
RDC 169 / 170 / Corridor 100	73 169/ 170 / Corridor 100 et 2E HALL 170 REF
RDC Atelier	60 RDC Atelier REF
RDC Billard	61 RDC Billard REF
RDC Bureau 157	62 RDC Bureau 157 REF
RDC Bureau 158	63 RDC Bureau 158 REF
RDC Bureau 159	64 RDC Bureau 159 REF
RDC Bureau 160	65 RDC Bureau 160 REF
RDC Bureau 161	66 RDC Bureau 161 REF
RDC Corridor	72 SAS/Corridor REF
RDC Corridor 100	72 SAS/Corridor REF
RDC Corridor 100A	72 SAS/Corridor REF
RDC EAU	87 RDC EAU REF
RDC ESC1	88 RDC ESC1 REF
RDC ESC2 / RDC Conciergerie 155	89 RDC ESC2 / RDC Conciergerie 155 REF
RDC ESC3	90 RDC ESC3 REF
RDC Hall/Vestibule 170/171	72 SAS/Corridor REF
RDC Méc 154	91 RDC Méc 154 REF
RDC Passage couvert 176	74 RDC Passage couvert 176 REF
RDC Poste2 162	68 RDC Poste2 162 REF
RDC Réception1	67 RDC Poste1 163 REF
RDC salle commune 175	70 RDC salle commune 175 REF
RDC Salons résidents	69 RDC Salle Com. 173 REF
RDC SOINS 167	71 RDC SOINS 167 REF
RDC Vestibule 001	72 SAS/Corridor REF
RDC Vestibule100C	72 SAS/Corridor REF

5. Miscellaneous Energy

(no items defined)

6. Meters

Electric **Default Electric Rate**

7. Miscellaneous Data

Average Building Power Factor **100.00** %
Source Electric Generating Efficiency **90.00** %
Additional Floor Area **0.0** sqft

b) Alternative CPT Input Data

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1. General Details:

Name **b) Alternative CPT**
Energy Sim. Status **Calculated**
Baseline-90° Status **Not Calculated**
Baseline-180° Status **Not Calculated**
Baseline-270° Status **Not Calculated**

2. Plants Included in this Alternative:

(none)

3. Air Systems Included in this Alternative:

Air System	# Zones
01 2E 201 CPT	1
02 2E 202 à 204 CPT	1
03 2E 205 CPT	1
04 2E 207 et 206 CPT	1
05 2E 208 CPT	1
06 2E 209 CPT	1
07 2E 210 à 214 CPT	1
08 2E 215 et 216 CPT	1
09 2E 217 CPT	1
10 2E 218 et 219 CPT	1
11 2E 220 CPT	1
12 2E 221 à 225 CPT	1
13 2E 226 CPT	1
14 2E 227 CPT	1
15 2E 228 CPT	1
16 2E 229 CPT	1
17 2E 230 à 234 CPT	1
18 2E 235 CPT	1
19 2E 236 et 237 CPT	1
20 2E salle commune 257 CPT	1
21 3E 301 à 308 CPT	1
22 3E 309 à 328 CPT	1
23 3E 329 et 330 CPT	1
24 3E 331 à 338 CPT	1
25 3E salle commune 357 CPT	1
26 4E 401 CPT	1
27 4E 402 à 404 CPT	1
28 4E 405 CPT	1
29 4E 406 et 407 CPT	1
30 4E 408 CPT	1
31 4E 409 CPT	1
32 4E 410 à 417 CPT	1
33 4E 418 CPT	1
34 4E 419 et 420 CPT	1
35 4E 421 CPT	1
36 4E 422 à 426 CPT	1
37 4E 427 CPT	1
38 4E 428 CPT	1
39 4E 429 CPT	1
40 4E 430 CPT	1
41 4E 431 à 435 CPT	1
42 4E 436 CPT	1
43 4E 437 et 438 CPT	1
44 4E salle commune 457 CPT	1
45 RDC 101 CPT	1
46 RDC 102 et 103 CPT	1
47 RDC 104 CPT	1
48 RDC 105 CPT	1

b) Alternative CPT Input Data

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49 RDC 106 à 109 CPT	1
50 RDC 110 et 111 CPT	1
51 RDC 112 CPT	1
52 RDC 113 à 117 CPT	1
53 RDC 118 CPT	1
54 RDC 119 CPT	1
55 RDC 120 CPT	1
56 RDC 121 CPT	1
57 RDC 122 à 126 CPT	1
58 RDC 127 CPT	1
59 RDC 128 et 129 CPT	1
60 RDC Atelier CPT	1
61 RDC Billard CPT	1
62 RDC Bureau 157 CPT	1
63 RDC Bureau 158 CPT	1
64 RDC Bureau 159 CPT	1
65 RDC Bureau 160 CPT	1
66 RDC Bureau 161 CPT	1
67 RDC Poste1 163 CPT	1
68 RDC Poste2 162 CPT	1
69 RDC Salle Com. 173 CPT	1
70 RDC salle commune 175 CPT	1
71 RDC SOINS 167 CPT	1
72 SAS/Corridor CPT	9
73 169/ 170 / Corridor 100 et 2E HALL 170 CPT	2
74 RDC Passage couvert 176 CPT	1
75 2E ESC1 CPT	1
76 2E ESC2 / 2E Rang. 255 CPT	1
77 2E ESC3 et 2E Rang. 254 CPT	1
78 2E Rang. 256 CPT	1
79 3E ESC1 CPT	1
80 3E ESC2 350 / 3E Rang. 355 CPT	1
81 3E ESC3 / 3E Rang. 354 CPT	1
82 3E Rang. 356 CPT	1
83 4E ESC1 CPT	1
84 4E ESC2 / 4E Conciergerie 455 CPT	1
85 4E ESC3 / 4E Rang. 454 CPT	1
86 4E Rang. 456 CPT	1
87 RDC EAU CPT	1
88 RDC ESC1 CPT	1
89 RDC ESC2 / RDC Conciergerie 155 CPT	1
90 RDC ESC3 CPT	1
91 RDC Méc 154 CPT	1

4. Space Models Included in this Alternative:

Summary Calculation Status:

Design Sizing Calculated
Energy Simulation Calculated

Space Model: b) Space Model CPT (for building1)

Design Sizing Calculated
Energy Simulation Calculated

Zone	Air System
2E 201	01 2E 201 CPT
2E 202 à 204	02 2E 202 à 204 CPT
2E 205	03 2E 205 CPT
2E 207 et 206	04 2E 207 et 206 CPT
2E 208	05 2E 208 CPT
2E 209	06 2E 209 CPT
2E 210 à 214	07 2E 210 à 214 CPT

b) Alternative CPT Input Data

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2E 215 et 216	08 2E 215 et 216 CPT
2E 217	09 2E 217 CPT
2E 218 et 219	10 2E 218 et 219 CPT
2E 220	11 2E 220 CPT
2E 221 à 225	12 2E 221 à 225 CPT
2E 226	13 2E 226 CPT
2E 227	14 2E 227 CPT
2E 228	15 2E 228 CPT
2E 229	16 2E 229 CPT
2E 230 à 234	17 2E 230 à 234 CPT
2E 235	18 2E 235 CPT
2E 236 et 237	19 2E 236 et 237 CPT
2E corridor	72 SAS/Corridor CPT
2E ESC1	75 2E ESC1 CPT
2E ESC2 / 2E Rang. 255	76 2E ESC2 / 2E Rang. 255 CPT
2E ESC3 et 2E Rang. 254	77 2E ESC3 et 2E Rang. 254 CPT
2E Hall 170	73 169/ 170 / Corridor 100 et 2E HALL 170 CPT
2E Rang. 256	78 2E Rang. 256 CPT
2E salle commune 257	20 2E salle commune 257 CPT
3E 301 à 308	21 3E 301 à 308 CPT
3E 309 à 328	22 3E 309 à 328 CPT
3E 329 et 330	23 3E 329 et 330 CPT
3E 331 à 338	24 3E 331 à 338 CPT
3E corridor 300	72 SAS/Corridor CPT
3E ESC1	79 3E ESC1 CPT
3E ESC2 350 / 3E Rang. 355	80 3E ESC2 350 / 3E Rang. 355 CPT
3E ESC3 / 3E Rang. 354	81 3E ESC3 / 3E Rang. 354 CPT
3E Rang. 356	82 3E Rang. 356 CPT
3E salle commune 357	25 3E salle commune 357 CPT
4E 401	26 4E 401 CPT
4E 402 à 404	27 4E 402 à 404 CPT
4E 405	28 4E 405 CPT
4E 406 et 407	29 4E 406 et 407 CPT
4E 408	30 4E 408 CPT
4E 409	31 4E 409 CPT
4E 410 à 417	32 4E 410 à 417 CPT
4E 418	33 4E 418 CPT
4E 419 et 420	34 4E 419 et 420 CPT
4E 421	35 4E 421 CPT
4E 422 à 426	36 4E 422 à 426 CPT
4E 427	37 4E 427 CPT
4E 428	38 4E 428 CPT
4E 429	39 4E 429 CPT
4E 430	40 4E 430 CPT
4E 431 à 435	41 4E 431 à 435 CPT
4E 436	42 4E 436 CPT
4E 437 et 438	43 4E 437 et 438 CPT
4E corridor 400	72 SAS/Corridor CPT
4E ESC1	83 4E ESC1 CPT
4E ESC2 / 4E Conciergerie 455	84 4E ESC2 / 4E Conciergerie 455 CPT
4E ESC3 / 4E Rang. 454	85 4E ESC3 / 4E Rang. 454 CPT
4E Rang. 456	86 4E Rang. 456 CPT
4E salle commune 457	44 4E salle commune 457 CPT
RDC 101	45 RDC 101 CPT
RDC 102 et 103	46 RDC 102 et 103 CPT
RDC 104	47 RDC 104 CPT
RDC 105	48 RDC 105 CPT
RDC 106 à 109	49 RDC 106 à 109 CPT
RDC 110 et 111	50 RDC 110 et 111 CPT

b) Alternative CPT Input Data

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RDC 112	51 RDC 112 CPT
RDC 113 à 117	52 RDC 113 à 117 CPT
RDC 118	53 RDC 118 CPT
RDC 119	54 RDC 119 CPT
RDC 120	55 RDC 120 CPT
RDC 121	56 RDC 121 CPT
RDC 122 à 126	57 RDC 122 à 126 CPT
RDC 127	58 RDC 127 CPT
RDC 128 et 129	59 RDC 128 et 129 CPT
RDC 169 / 170 / Corridor 100	73 169/ 170 / Corridor 100 et 2E HALL 170 CPT
RDC Atelier	60 RDC Atelier CPT
RDC Billard	61 RDC Billard CPT
RDC Bureau 157	62 RDC Bureau 157 CPT
RDC Bureau 158	63 RDC Bureau 158 CPT
RDC Bureau 159	64 RDC Bureau 159 CPT
RDC Bureau 160	65 RDC Bureau 160 CPT
RDC Bureau 161	66 RDC Bureau 161 CPT
RDC Corridor	72 SAS/Corridor CPT
RDC Corridor 100	72 SAS/Corridor CPT
RDC Corridor 100A	72 SAS/Corridor CPT
RDC EAU	87 RDC EAU CPT
RDC ESC1	88 RDC ESC1 CPT
RDC ESC2 / RDC Conciergerie 155	89 RDC ESC2 / RDC Conciergerie 155 CPT
RDC ESC3	90 RDC ESC3 CPT
RDC Hall/Vestibule 170/171	72 SAS/Corridor CPT
RDC Méc 154	91 RDC Méc 154 CPT
RDC Passage couvert 176	74 RDC Passage couvert 176 CPT
RDC Poste2 162	68 RDC Poste2 162 CPT
RDC Réception1	67 RDC Poste1 163 CPT
RDC salle commune 175	70 RDC salle commune 175 CPT
RDC Salons résidents	69 RDC Salle Com. 173 CPT
RDC SOINS 167	71 RDC SOINS 167 CPT
RDC Vestibule 001	72 SAS/Corridor CPT
RDC Vestibule100C	72 SAS/Corridor CPT

5. Miscellaneous Energy

(no items defined)

6. Meters

Electric **Default Electric Rate**

7. Miscellaneous Data

Average Building Power Factor **100.00** %
 Source Electric Generating Efficiency **90.00** %
 Additional Floor Area **0.0** sqft

Air System Sizing Summary for 01 2E 201 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **01 2E 201 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **865.1** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.9** Tons
Total coil load **10.7** MBH
Sensible coil load **8.9** MBH
Coil CFM at peak load **524** CFM
Sum of peak zone CFM **524** CFM
Sensible heat ratio **0.839**
CFM/Ton **589.7**
sqft/Ton **973.6**
BTU/(hr sqft) **12.3**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 15:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **75.7 / 66.2** F
Leaving DB / WB **60.3 / 59.8** F
Resulting RH **59** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **13.6** MBH
Coil CFM at Design Heating **524** CFM
Max coil CFM **524** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **15.7**
Ent. DB / Lvg DB **64.0 / 88.1** F

Supply Fan Sizing Data

Design CFM **524** CFM
Design CFM/sqft **0.61** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.12** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 01 2E 201 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **01 2E 201 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **865.1** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 201	524	524	0.61	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 201	9.6	September 15:00	10.1	865.1

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 201						
2E 201	9.6	September 15:00	524	10.1	865.1	0.61

Air System Heat Balance Summary for 01 2E 201 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	8507	319	-	10212	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	524 CFM	0	-	524 CFM	0	-
Ventilation Load	100 CFM	415	1130	100 CFM	3391	0
Supply Fan Load	524 CFM	0	-	524 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	8923	1449	-	13603	0
Central Cooling Coil	-	8944	1718	-	0	0
Central Heating Coil	-	0	-	-	13612	-
>> Total Conditioning	-	8944	1718	-	13612	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	291 sqft	591	-	291 sqft	710	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	722	-	66 sqft	695	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	515	-	47 sqft	495	-
Floor Convection	865 sqft	2402	-	865 sqft	711	-
Interior Wall Convection	954 sqft	1489	-	954 sqft	530	-
Ceiling Convection	865 sqft	2220	-	865 sqft	922	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	40 CFM	4722	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	1191	0	15%	1318	0
>> Total Zone Loads	-	9130	0	-	10104	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 01 2E 201 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

DESIGN COOLING DAY AT AUGUST 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	100	400	415	1130
Air-to-Air Energy Recovery	Outlet	78.9	0.01352	100	400	789	0
Vent - Return Mixing	Outlet	75.7	0.01159	524	400	-	-
Central Cooling Coil	Outlet	60.3	0.01092	524	400	8944	1718
Central Heating Coil	Outlet	60.3	0.01092	524	400	0	-
Supply Fan	Outlet	60.3	0.01092	524	400	0	-
Cold Supply Duct	Outlet	60.3	0.01092	524	400	-	-
Zone Air	-	75.0	0.01105	524	400	8507	319
Return Air	Outlet	75.0	0.01114	524	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 201	8505	Cooling	8507	75.0	524	400	0	0

System Psychrometrics for 01 2E 201 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-3391	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	100	400	-6315	0
Vent - Return Mixing	Outlet	64.0	0.00026	524	400	-	-
Central Cooling Coil	Outlet	64.0	0.00026	524	400	0	0
Central Heating Coil	Outlet	88.1	0.00026	524	400	13612	-
Supply Fan	Outlet	88.1	0.00026	524	400	0	-
Cold Supply Duct	Outlet	88.1	0.00026	524	400	-	-
Zone Air	-	70.0	0.00026	524	400	-10212	0
Return Air	Outlet	70.0	0.00026	524	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 201	-10212	Heating	-10212	70.0	524	400	0	0

Air System Sizing Summary for 02 2E 202 à 204 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **02 2E 202 à 204 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **1943.0** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.8** Tons
Total coil load **21.1** MBH
Sensible coil load **16.4** MBH
Coil CFM at peak load **917** CFM
Sum of peak zone CFM **917** CFM
Sensible heat ratio **0.780**
CFM/Ton **521.7**
sqft/Ton **1105.6**
BTU/(hr sqft) **10.9**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 15:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **76.3 / 66.8** F
Leaving DB / WB **60.0 / 59.7** F
Resulting RH **59** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **28.8** MBH
Coil CFM at Design Heating **917** CFM
Max coil CFM **917** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **14.8**
Ent. DB / Lvg DB **59.7 / 88.8** F

Supply Fan Sizing Data

Design CFM **917** CFM
Design CFM/sqft **0.47** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **300** CFM
CFM/sqft **0.15** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 02 2E 202 à 204 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **02 2E 202 à 204 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **1943.0** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 202 à 204	917	917	0.47	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 202 à 204	16.8	September 15:00	18.3	1943.0

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 202 à 204						
2E 202 à 204	16.8	September 15:00	917	18.3	1943.0	0.47

Air System Heat Balance Summary for 02 2E 202 à 204 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	15130	691	-	18623	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	917 CFM	0	-	917 CFM	0	-
Ventilation Load	300 CFM	1246	3444	300 CFM	10173	0
Supply Fan Load	917 CFM	0	-	917 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	16376	4135	-	28796	0
Central Cooling Coil	-	16443	4646	-	0	0
Central Heating Coil	-	0	-	-	28824	-
>> Total Conditioning	-	16443	4646	-	28824	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	521 sqft	915	-	521 sqft	1222	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	116 sqft	1200	-	116 sqft	1230	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	95 sqft	976	-	95 sqft	1007	-
Floor Convection	1943 sqft	5004	-	1943 sqft	1398	-
Interior Wall Convection	1281 sqft	1599	-	1281 sqft	630	-
Ceiling Convection	1943 sqft	4188	-	1943 sqft	1901	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	73 CFM	8528	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	2082	0	15%	2387	0
>> Total Zone Loads	-	15964	0	-	18303	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 02 2E 202 à 204 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

DESIGN COOLING DAY AT AUGUST 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	300	400	1246	3444
Air-to-Air Energy Recovery	Outlet	78.9	0.01352	300	400	2368	0
Vent - Return Mixing	Outlet	76.3	0.01189	917	400	-	-
Central Cooling Coil	Outlet	60.0	0.01086	917	400	16443	4646
Central Heating Coil	Outlet	60.0	0.01086	917	400	0	-
Supply Fan	Outlet	60.0	0.01086	917	400	0	-
Cold Supply Duct	Outlet	60.0	0.01086	917	400	-	-
Zone Air	-	75.0	0.01102	917	400	15130	691
Return Air	Outlet	75.0	0.01110	917	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 202 à 204	15125	Cooling	15130	75.0	917	400	0	0

System Psychrometrics for 02 2E 202 à 204 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	300	400	-10173	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	300	400	-18946	0
Vent - Return Mixing	Outlet	59.7	0.00026	917	400	-	-
Central Cooling Coil	Outlet	59.7	0.00026	917	400	0	0
Central Heating Coil	Outlet	88.8	0.00026	917	400	28824	-
Supply Fan	Outlet	88.8	0.00026	917	400	0	-
Cold Supply Duct	Outlet	88.8	0.00026	917	400	-	-
Zone Air	-	70.0	0.00026	917	400	-18623	0
Return Air	Outlet	70.0	0.00026	917	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 202 à 204	-18623	Heating	-18623	70.0	917	400	0	0

Air System Sizing Summary for 03 2E 205 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **03 2E 205 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **845.6** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.9** Tons
Total coil load **10.4** MBH
Sensible coil load **8.8** MBH
Coil CFM at peak load **515** CFM
Sum of peak zone CFM **515** CFM
Sensible heat ratio **0.841**
CFM/Ton **591.2**
sqft/Ton **971.2**
BTU/(hr sqft) **12.4**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 15:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **75.8 / 66.2** F
Leaving DB / WB **60.3 / 59.9** F
Resulting RH **59** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **12.7** MBH
Coil CFM at Design Heating **515** CFM
Max coil CFM **515** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **15.0**
Ent. DB / Lvg DB **63.9 / 86.7** F

Supply Fan Sizing Data

Design CFM **515** CFM
Design CFM/sqft **0.61** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.12** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 03 2E 205 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **03 2E 205 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **845.6** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 205	515	515	0.61	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 205	9.4	September 15:00	9.1	845.6

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 205						
2E 205	9.4	September 15:00	515	9.1	845.6	0.61

Air System Heat Balance Summary for 03 2E 205 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	8348	279	-	9289	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	515 CFM	0	-	515 CFM	0	-
Ventilation Load	100 CFM	415	1139	100 CFM	3391	0
Supply Fan Load	515 CFM	0	-	515 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	8764	1418	-	12680	0
Central Cooling Coil	-	8786	1662	-	0	0
Central Heating Coil	-	0	-	-	12690	-
>> Total Conditioning	-	8786	1662	-	12690	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	240 sqft	486	-	240 sqft	578	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	726	-	66 sqft	700	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	518	-	47 sqft	499	-
Floor Convection	846 sqft	2509	-	846 sqft	673	-
Interior Wall Convection	904 sqft	1391	-	904 sqft	486	-
Ceiling Convection	846 sqft	2162	-	846 sqft	885	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	35 CFM	4125	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	1169	0	15%	1192	0
>> Total Zone Loads	-	8960	0	-	9138	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 03 2E 205 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

DESIGN COOLING DAY AT AUGUST 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	100	400	415	1139
Air-to-Air Energy Recovery	Outlet	78.9	0.01352	100	400	789	0
Vent - Return Mixing	Outlet	75.8	0.01158	515	400	-	-
Central Cooling Coil	Outlet	60.3	0.01092	515	400	8786	1662
Central Heating Coil	Outlet	60.3	0.01092	515	400	0	-
Supply Fan	Outlet	60.3	0.01092	515	400	0	-
Cold Supply Duct	Outlet	60.3	0.01092	515	400	-	-
Zone Air	-	75.0	0.01104	515	400	8348	279
Return Air	Outlet	75.0	0.01112	515	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 205	8346	Cooling	8348	75.0	515	400	0	0

System Psychrometrics for 03 2E 205 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-3391	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	100	400	-6315	0
Vent - Return Mixing	Outlet	63.9	0.00026	515	400	-	-
Central Cooling Coil	Outlet	63.9	0.00026	515	400	0	0
Central Heating Coil	Outlet	86.7	0.00026	515	400	12690	-
Supply Fan	Outlet	86.7	0.00026	515	400	0	-
Cold Supply Duct	Outlet	86.7	0.00026	515	400	-	-
Zone Air	-	70.0	0.00026	515	400	-9289	0
Return Air	Outlet	70.0	0.00026	515	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 205	-9289	Heating	-9289	70.0	515	400	0	0

Air System Sizing Summary for 04 2E 207 et 206 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **04 2E 207 et 206 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **1151.2** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.9** Tons
Total coil load **10.7** MBH
Sensible coil load **7.8** MBH
Coil CFM at peak load **431** CFM
Sum of peak zone CFM **431** CFM
Sensible heat ratio **0.732**
CFM/Ton **482.5**
sqft/Ton **1288.3**
BTU/(hr sqft) **9.3**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 15:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **76.8 / 67.5** F
Leaving DB / WB **60.3 / 60.0** F
Resulting RH **60** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **15.8** MBH
Coil CFM at Design Heating **431** CFM
Max coil CFM **431** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **13.8**
Ent. DB / Lvg DB **55.4 / 89.4** F

Supply Fan Sizing Data

Design CFM **431** CFM
Design CFM/sqft **0.37** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **200** CFM
CFM/sqft **0.17** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 04 2E 207 et 206 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **04 2E 207 et 206 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **1151.2** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 207 et 206	431	431	0.37	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 207 et 206	7.9	September 15:00	8.9	1151.2

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 207 et 206						
2E 207 et 206	7.9	September 15:00	431	8.9	1151.2	0.37

Air System Heat Balance Summary for 04 2E 207 et 206 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	6972	505	-	9044	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	431 CFM	0	-	431 CFM	0	-
Ventilation Load	200 CFM	831	2075	200 CFM	6782	0
Supply Fan Load	431 CFM	0	-	431 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	7803	2580	-	15826	0
Central Cooling Coil	-	7845	2878	-	0	0
Central Heating Coil	-	0	-	-	15845	-
>> Total Conditioning	-	7845	2878	-	15845	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	263 sqft	435	-	263 sqft	580	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	0 sqft	0	-	0 sqft	0	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	95 sqft	913	-	95 sqft	1003	-
Floor Convection	1151 sqft	1649	-	1151 sqft	616	-
Interior Wall Convection	1245 sqft	1408	-	1245 sqft	477	-
Ceiling Convection	1151 sqft	2117	-	1151 sqft	891	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	36 CFM	4172	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	978	0	15%	1161	0
>> Total Zone Loads	-	7500	0	-	8901	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 04 2E 207 et 206 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

DESIGN COOLING DAY AT AUGUST 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	200	400	831	2075
Air-to-Air Energy Recovery	Outlet	78.9	0.01352	200	400	1579	0
Vent - Return Mixing	Outlet	76.8	0.01235	431	400	-	-
Central Cooling Coil	Outlet	60.3	0.01098	431	400	7845	2878
Central Heating Coil	Outlet	60.3	0.01098	431	400	0	-
Supply Fan	Outlet	60.3	0.01098	431	400	0	-
Cold Supply Duct	Outlet	60.3	0.01098	431	400	-	-
Zone Air	-	75.0	0.01123	431	400	6972	505
Return Air	Outlet	75.0	0.01133	431	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 207 et 206	6968	Cooling	6972	75.0	431	400	0	0

System Psychrometrics for 04 2E 207 et 206 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	200	400	-6782	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	200	400	-12631	0
Vent - Return Mixing	Outlet	55.4	0.00026	431	400	-	-
Central Cooling Coil	Outlet	55.4	0.00026	431	400	0	0
Central Heating Coil	Outlet	89.4	0.00026	431	400	15845	-
Supply Fan	Outlet	89.4	0.00026	431	400	0	-
Cold Supply Duct	Outlet	89.4	0.00026	431	400	-	-
Zone Air	-	70.0	0.00026	431	400	-9044	0
Return Air	Outlet	70.0	0.00026	431	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 207 et 206	-9044	Heating	-9044	70.0	431	400	0	0

Air System Sizing Summary for 05 2E 208 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **05 2E 208 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **972.9** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.9** Tons
Total coil load **10.7** MBH
Sensible coil load **8.9** MBH
Coil CFM at peak load **519** CFM
Sum of peak zone CFM **519** CFM
Sensible heat ratio **0.834**
CFM/Ton **583.3**
sqft/Ton **1092.6**
BTU/(hr sqft) **11.0**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 15:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **75.8 / 66.2** F
Leaving DB / WB **60.2 / 59.8** F
Resulting RH **59** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **13.7** MBH
Coil CFM at Design Heating **519** CFM
Max coil CFM **519** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **14.0**
Ent. DB / Lvg DB **63.9 / 88.3** F

Supply Fan Sizing Data

Design CFM **519** CFM
Design CFM/sqft **0.53** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.10** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 05 2E 208 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **05 2E 208 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **972.9** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 208	519	519	0.53	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 208	9.5	September 15:00	10.1	972.9

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 208						
2E 208	9.5	September 15:00	519	10.1	972.9	0.53

Air System Heat Balance Summary for 05 2E 208 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	8479	365	-	10262	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	519 CFM	0	-	519 CFM	0	-
Ventilation Load	100 CFM	415	1132	100 CFM	3391	0
Supply Fan Load	519 CFM	0	-	519 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	8894	1497	-	13653	0
Central Cooling Coil	-	8916	1770	-	0	0
Central Heating Coil	-	0	-	-	13663	-
>> Total Conditioning	-	8916	1770	-	13663	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	290 sqft	545	-	290 sqft	687	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	705	-	66 sqft	703	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	500	-	47 sqft	501	-
Floor Convection	973 sqft	2478	-	973 sqft	729	-
Interior Wall Convection	954 sqft	1343	-	954 sqft	490	-
Ceiling Convection	973 sqft	2278	-	973 sqft	972	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	40 CFM	4706	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	1177	0	15%	1318	0
>> Total Zone Loads	-	9027	0	-	10107	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 05 2E 208 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

DESIGN COOLING DAY AT AUGUST 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	100	400	415	1132
Air-to-Air Energy Recovery	Outlet	78.9	0.01352	100	400	789	0
Vent - Return Mixing	Outlet	75.8	0.01159	519	400	-	-
Central Cooling Coil	Outlet	60.2	0.01090	519	400	8916	1770
Central Heating Coil	Outlet	60.2	0.01090	519	400	0	-
Supply Fan	Outlet	60.2	0.01090	519	400	0	-
Cold Supply Duct	Outlet	60.2	0.01090	519	400	-	-
Zone Air	-	75.0	0.01105	519	400	8479	365
Return Air	Outlet	75.0	0.01113	519	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 208	8476	Cooling	8479	75.0	519	400	0	0

System Psychrometrics for 05 2E 208 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-3391	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	100	400	-6315	0
Vent - Return Mixing	Outlet	63.9	0.00026	519	400	-	-
Central Cooling Coil	Outlet	63.9	0.00026	519	400	0	0
Central Heating Coil	Outlet	88.3	0.00026	519	400	13663	-
Supply Fan	Outlet	88.3	0.00026	519	400	0	-
Cold Supply Duct	Outlet	88.3	0.00026	519	400	-	-
Zone Air	-	70.0	0.00026	519	400	-10262	0
Return Air	Outlet	70.0	0.00026	519	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 208	-10262	Heating	-10262	70.0	519	400	0	0

Air System Sizing Summary for 06 2E 209 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **06 2E 209 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **661.3** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.3** Tons
Total coil load **4.0** MBH
Sensible coil load **3.9** MBH
Coil CFM at peak load **442** CFM
Sum of peak zone CFM **442** CFM
Sensible heat ratio **0.957**
CFM/Ton **1310.3**
sqft/Ton **1959.5**
BTU/(hr sqft) **6.1**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 17:00**
OA DB / WB **85.0 / 71.5** F
Entering DB / WB **75.8 / 68.7** F
Leaving DB / WB **67.9 / 66.1** F
Resulting RH **72** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **15.3** MBH
Coil CFM at Design Heating **442** CFM
Max coil CFM **442** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **23.1**
Ent. DB / Lvg DB **62.9 / 94.9** F

Supply Fan Sizing Data

Design CFM **442** CFM
Design CFM/sqft **0.67** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.15** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 06 2E 209 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **06 2E 209 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **661.3** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 209	442	442	0.67	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 209	3.5	July 18:00	11.9	661.3

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 209						
2E 209	3.5	July 18:00	442	11.9	661.3	0.67

Air System Heat Balance Summary for 06 2E 209 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 17:00			DESIGN HEATING		
	OA DB / WB 85.0 F / 71.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	3492	75	-	11888	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	442 CFM	0	-	442 CFM	0	-
Ventilation Load	100 CFM	373	43	100 CFM	3391	0
Supply Fan Load	442 CFM	0	-	442 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	3865	117	-	15279	0
Central Cooling Coil	-	3875	174	-	0	0
Central Heating Coil	-	0	-	-	15288	-
>> Total Conditioning	-	3875	174	-	15288	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 17:00			DESIGN HEATING		
	OA DB / WB 85.0 F / 71.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	427 sqft	515	-	427 sqft	1189	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	49 sqft	97	-	49 sqft	555	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	325	-	47 sqft	541	-
Floor Convection	661 sqft	843	-	661 sqft	717	-
Interior Wall Convection	524 sqft	393	-	524 sqft	366	-
Ceiling Convection	661 sqft	805	-	661 sqft	869	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	52 CFM	6112	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	447	0	15%	1552	0
>> Total Zone Loads	-	3424	0	-	11900	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 06 2E 209 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

DESIGN COOLING DAY AT JULY 17:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	84.9	0.01353	100	400	373	43
Air-to-Air Energy Recovery	Outlet	78.5	0.01353	100	400	711	0
Vent - Return Mixing	Outlet	75.8	0.01346	442	400	-	-
Central Cooling Coil	Outlet	67.9	0.01338	442	400	3875	174
Central Heating Coil	Outlet	67.9	0.01338	442	400	0	-
Supply Fan	Outlet	67.9	0.01338	442	400	0	-
Cold Supply Duct	Outlet	67.9	0.01338	442	400	-	-
Zone Air	-	75.0	0.01341	442	400	3492	75
Return Air	Outlet	75.0	0.01344	442	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 209	3492	Cooling	3492	75.0	442	400	0	0

System Psychrometrics for 06 2E 209 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-3391	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	100	400	-6315	0
Vent - Return Mixing	Outlet	62.9	0.00026	442	400	-	-
Central Cooling Coil	Outlet	62.9	0.00026	442	400	0	0
Central Heating Coil	Outlet	94.9	0.00026	442	400	15288	-
Supply Fan	Outlet	94.9	0.00026	442	400	0	-
Cold Supply Duct	Outlet	94.9	0.00026	442	400	-	-
Zone Air	-	70.0	0.00026	442	400	-11888	0
Return Air	Outlet	70.0	0.00026	442	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 209	-11888	Heating	-11888	70.0	442	400	0	0

Air System Sizing Summary for 07 2E 210 à 214 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **07 2E 210 à 214 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **3254.4** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.6** Tons
Total coil load **19.1** MBH
Sensible coil load **12.8** MBH
Coil CFM at peak load **1179** CFM
Sum of peak zone CFM **1179** CFM
Sensible heat ratio **0.669**
CFM/Ton **741.1**
sqft/Ton **2046.1**
BTU/(hr sqft) **5.9**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 7:00**
OA DB / WB **68.8 / 66.5** F
Entering DB / WB **72.4 / 66.8** F
Leaving DB / WB **62.6 / 62.0** F
Resulting RH **66** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **48.8** MBH
Coil CFM at Design Heating **1179** CFM
Max coil CFM **1179** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **15.0**
Ent. DB / Lvg DB **56.6 / 95.0** F

Supply Fan Sizing Data

Design CFM **1179** CFM
Design CFM/sqft **0.36** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **500** CFM
CFM/sqft **0.15** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 07 2E 210 à 214 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **07 2E 210 à 214 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **3254.4** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 210 à 214	1179	1179	0.36	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 210 à 214	17.7	June 8:00	31.7	3254.4

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 210 à 214						
2E 210 à 214	17.7	June 8:00	1179	31.7	3254.4	0.36

Air System Heat Balance Summary for 07 2E 210 à 214 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	16107	2627	-	31779	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	1179 CFM	0	-	1179 CFM	0	-
Ventilation Load	500 CFM	-3266	2686	500 CFM	16955	0
Supply Fan Load	1179 CFM	0	-	1179 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	12841	5313	-	48734	0
Central Cooling Coil	-	12766	6321	-	0	0
Central Heating Coil	-	0	-	-	48782	-
>> Total Conditioning	-	12766	6321	-	48782	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	819 sqft	562	-	819 sqft	1959	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	165 sqft	809	-	165 sqft	1804	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	237 sqft	1289	-	237 sqft	2578	-
Floor Convection	3254 sqft	5232	-	3254 sqft	2593	-
Interior Wall Convection	1772 sqft	1562	-	1772 sqft	945	-
Ceiling Convection	3254 sqft	4949	-	3254 sqft	3463	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	122 CFM	14244	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	2160	0	15%	4138	0
>> Total Zone Loads	-	16563	0	-	31724	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 07 2E 210 à 214 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

DESIGN COOLING DAY AT JULY 7:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	68.9	0.01349	500	400	-3266	2686
Air-to-Air Energy Recovery	Outlet	68.9	0.01349	500	400	0	0
Vent - Return Mixing	Outlet	72.4	0.01284	1179	400	-	-
Central Cooling Coil	Outlet	62.6	0.01174	1179	400	12766	6321
Central Heating Coil	Outlet	62.6	0.01174	1179	400	0	-
Supply Fan	Outlet	62.6	0.01174	1179	400	0	-
Cold Supply Duct	Outlet	62.6	0.01174	1179	400	-	-
Zone Air	-	75.0	0.01221	1179	400	16107	2627
Return Air	Outlet	75.0	0.01235	1179	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 210 à 214	16090	Cooling	16107	75.0	1179	400	0	0

System Psychrometrics for 07 2E 210 à 214 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	500	400	-16955	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	500	400	-31576	0
Vent - Return Mixing	Outlet	56.6	0.00026	1179	400	-	-
Central Cooling Coil	Outlet	56.6	0.00026	1179	400	0	0
Central Heating Coil	Outlet	95.0	0.00026	1179	400	48782	-
Supply Fan	Outlet	95.0	0.00026	1179	400	0	-
Cold Supply Duct	Outlet	95.0	0.00026	1179	400	-	-
Zone Air	-	70.0	0.00026	1179	400	-31779	0
Return Air	Outlet	70.0	0.00026	1179	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 210 à 214	-31779	Heating	-31779	70.0	1179	400	0	0

Air System Sizing Summary for 08 2E 215 et 216 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **08 2E 215 et 216 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **1270.4** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.5** Tons
Total coil load **5.5** MBH
Sensible coil load **3.9** MBH
Coil CFM at peak load **463** CFM
Sum of peak zone CFM **463** CFM
Sensible heat ratio **0.710**
CFM/Ton **1013.3**
sqft/Ton **2781.5**
BTU/(hr sqft) **4.3**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 7:00**
OA DB / WB **68.8 / 66.5** F
Entering DB / WB **72.4 / 67.2** F
Leaving DB / WB **64.8 / 63.7** F
Resulting RH **68** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **19.3** MBH
Coil CFM at Design Heating **463** CFM
Max coil CFM **463** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **15.2**
Ent. DB / Lvg DB **56.4 / 95.0** F

Supply Fan Sizing Data

Design CFM **463** CFM
Design CFM/sqft **0.36** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **200** CFM
CFM/sqft **0.16** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 08 2E 215 et 216 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **08 2E 215 et 216 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **1270.4** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 215 et 216	463	463	0.36	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 215 et 216	5.7	June 7:00	12.5	1270.4

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 215 et 216						
2E 215 et 216	5.7	June 7:00	463	12.5	1270.4	0.36

Air System Heat Balance Summary for 08 2E 215 et 216 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	5232	681	-	12479	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	463 CFM	0	-	463 CFM	0	-
Ventilation Load	200 CFM	-1307	641	200 CFM	6782	0
Supply Fan Load	463 CFM	0	-	463 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	3925	1323	-	19261	0
Central Cooling Coil	-	3892	1588	-	0	0
Central Heating Coil	-	0	-	-	19280	-
>> Total Conditioning	-	3892	1588	-	19280	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	316 sqft	179	-	316 sqft	743	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	187	-	66 sqft	713	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	95 sqft	467	-	95 sqft	1020	-
Floor Convection	1270 sqft	1436	-	1270 sqft	971	-
Interior Wall Convection	1028 sqft	843	-	1028 sqft	523	-
Ceiling Convection	1270 sqft	1510	-	1270 sqft	1302	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	48 CFM	5559	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	693	0	15%	1625	0
>> Total Zone Loads	-	5317	0	-	12455	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 08 2E 215 et 216 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

DESIGN COOLING DAY AT JULY 7:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	68.9	0.01349	200	400	-1307	641
Air-to-Air Energy Recovery	Outlet	68.9	0.01349	200	400	0	0
Vent - Return Mixing	Outlet	72.4	0.01310	463	400	-	-
Central Cooling Coil	Outlet	64.8	0.01240	463	400	3892	1588
Central Heating Coil	Outlet	64.8	0.01240	463	400	0	-
Supply Fan	Outlet	64.8	0.01240	463	400	0	-
Cold Supply Duct	Outlet	64.8	0.01240	463	400	-	-
Zone Air	-	75.0	0.01271	463	400	5232	681
Return Air	Outlet	75.0	0.01281	463	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 215 et 216	5228	Cooling	5232	75.0	463	400	0	0

System Psychrometrics for 08 2E 215 et 216 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	200	400	-6782	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	200	400	-12631	0
Vent - Return Mixing	Outlet	56.4	0.00026	463	400	-	-
Central Cooling Coil	Outlet	56.4	0.00026	463	400	0	0
Central Heating Coil	Outlet	95.0	0.00026	463	400	19280	-
Supply Fan	Outlet	95.0	0.00026	463	400	0	-
Cold Supply Duct	Outlet	95.0	0.00026	463	400	-	-
Zone Air	-	70.0	0.00026	463	400	-12479	0
Return Air	Outlet	70.0	0.00026	463	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 215 et 216	-12479	Heating	-12479	70.0	463	400	0	0

Air System Sizing Summary for 09 2E 217 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **09 2E 217 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **862.9** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.5** Tons
Total coil load **5.6** MBH
Sensible coil load **4.9** MBH
Coil CFM at peak load **496** CFM
Sum of peak zone CFM **496** CFM
Sensible heat ratio **0.880**
CFM/Ton **1059.4**
sqft/Ton **1842.5**
BTU/(hr sqft) **6.5**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 8:00**
OA DB / WB **70.0 / 66.9** F
Entering DB / WB **74.1 / 67.1** F
Leaving DB / WB **65.0 / 63.7** F
Resulting RH **67** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **16.7** MBH
Coil CFM at Design Heating **496** CFM
Max coil CFM **496** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **19.4**
Ent. DB / Lvg DB **63.7 / 94.9** F

Supply Fan Sizing Data

Design CFM **496** CFM
Design CFM/sqft **0.58** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.12** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 09 2E 217 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **09 2E 217 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **862.9** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 217	496	496	0.58	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 217	5.7	June 8:00	13.4	862.9

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 217						
2E 217	5.7	June 8:00	496	13.4	862.9	0.58

Air System Heat Balance Summary for 09 2E 217 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Table 1. System Loads

	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
COMPONENT LOADS	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	5455	81	-	13333	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	496 CFM	0	-	496 CFM	0	-
Ventilation Load	100 CFM	-496	501	100 CFM	3391	0
Supply Fan Load	496 CFM	0	-	496 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	4959	582	-	16724	0
Central Cooling Coil	-	4948	673	-	0	0
Central Heating Coil	-	0	-	-	16734	-
>> Total Conditioning	-	4948	673	-	16734	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
Zone Heat Balance Component	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	431 sqft	505	-	431 sqft	1158	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	83 sqft	433	-	83 sqft	890	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	290	-	47 sqft	507	-
Floor Convection	863 sqft	1331	-	863 sqft	927	-
Interior Wall Convection	717 sqft	799	-	717 sqft	475	-
Ceiling Convection	863 sqft	1551	-	863 sqft	1108	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	56 CFM	6547	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	736	0	15%	1742	0
>> Total Zone Loads	-	5646	0	-	13354	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 09 2E 217 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

DESIGN COOLING DAY AT JULY 8:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	70.4	0.01350	100	400	-496	501
Air-to-Air Energy Recovery	Outlet	70.4	0.01350	100	400	0	0
Vent - Return Mixing	Outlet	74.1	0.01265	496	400	-	-
Central Cooling Coil	Outlet	65.0	0.01237	496	400	4948	673
Central Heating Coil	Outlet	65.0	0.01237	496	400	0	-
Supply Fan	Outlet	65.0	0.01237	496	400	0	-
Cold Supply Duct	Outlet	65.0	0.01237	496	400	-	-
Zone Air	-	75.0	0.01241	496	400	5455	81
Return Air	Outlet	75.0	0.01244	496	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 217	5454	Cooling	5455	75.0	496	400	0	0

System Psychrometrics for 09 2E 217 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-3391	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	100	400	-6315	0
Vent - Return Mixing	Outlet	63.7	0.00026	496	400	-	-
Central Cooling Coil	Outlet	63.7	0.00026	496	400	0	0
Central Heating Coil	Outlet	94.9	0.00026	496	400	16734	-
Supply Fan	Outlet	94.9	0.00026	496	400	0	-
Cold Supply Duct	Outlet	94.9	0.00026	496	400	-	-
Zone Air	-	70.0	0.00026	496	400	-13333	0
Return Air	Outlet	70.0	0.00026	496	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 217	-13333	Heating	-13333	70.0	496	400	0	0

Air System Sizing Summary for 10 2E 218 et 219 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **10 2E 218 et 219 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **1151.3** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.4** Tons
Total coil load **4.9** MBH
Sensible coil load **3.2** MBH
Coil CFM at peak load **330** CFM
Sum of peak zone CFM **330** CFM
Sensible heat ratio **0.652**
CFM/Ton **807.7**
sqft/Ton **2817.1**
BTU/(hr sqft) **4.3**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 8:00**
OA DB / WB **70.0 / 66.9** F
Entering DB / WB **72.2 / 67.0** F
Leaving DB / WB **63.4 / 62.5** F
Resulting RH **65** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **15.7** MBH
Coil CFM at Design Heating **330** CFM
Max coil CFM **330** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **13.6**
Ent. DB / Lvg DB **50.9 / 94.9** F

Supply Fan Sizing Data

Design CFM **330** CFM
Design CFM/sqft **0.29** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **200** CFM
CFM/sqft **0.17** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 10 2E 218 et 219 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **10 2E 218 et 219 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **1151.3** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 218 et 219	330	330	0.29	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 218 et 219	4.6	June 8:00	8.9	1151.3

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 218 et 219						
2E 218 et 219	4.6	June 8:00	330	8.9	1151.3	0.29

Air System Heat Balance Summary for 10 2E 218 et 219 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	4213	294	-	8891	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	330 CFM	0	-	330 CFM	0	-
Ventilation Load	200 CFM	-992	1253	200 CFM	6782	0
Supply Fan Load	330 CFM	0	-	330 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	3221	1548	-	15673	0
Central Cooling Coil	-	3200	1704	-	0	0
Central Heating Coil	-	0	-	-	15692	-
>> Total Conditioning	-	3200	1704	-	15692	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	259 sqft	176	-	259 sqft	572	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	0 sqft	0	-	0 sqft	0	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	95 sqft	509	-	95 sqft	1026	-
Floor Convection	1151 sqft	1088	-	1151 sqft	619	-
Interior Wall Convection	1256 sqft	958	-	1256 sqft	484	-
Ceiling Convection	1151 sqft	1221	-	1151 sqft	894	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	35 CFM	4131	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	593	0	15%	1159	0
>> Total Zone Loads	-	4545	0	-	8884	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 10 2E 218 et 219 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

DESIGN COOLING DAY AT JULY 8:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	70.4	0.01350	200	400	-992	1253
Air-to-Air Energy Recovery	Outlet	70.4	0.01350	200	400	0	0
Vent - Return Mixing	Outlet	72.2	0.01297	330	400	-	-
Central Cooling Coil	Outlet	63.4	0.01192	330	400	3200	1704
Central Heating Coil	Outlet	63.4	0.01192	330	400	0	-
Supply Fan	Outlet	63.4	0.01192	330	400	0	-
Cold Supply Duct	Outlet	63.4	0.01192	330	400	-	-
Zone Air	-	75.0	0.01211	330	400	4213	294
Return Air	Outlet	75.0	0.01217	330	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 218 et 219	4211	Cooling	4213	75.0	330	400	0	0

System Psychrometrics for 10 2E 218 et 219 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	200	400	-6782	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	200	400	-12631	0
Vent - Return Mixing	Outlet	50.9	0.00026	330	400	-	-
Central Cooling Coil	Outlet	50.9	0.00026	330	400	0	0
Central Heating Coil	Outlet	94.9	0.00026	330	400	15692	-
Supply Fan	Outlet	94.9	0.00026	330	400	0	-
Cold Supply Duct	Outlet	94.9	0.00026	330	400	-	-
Zone Air	-	70.0	0.00026	330	400	-8891	0
Return Air	Outlet	70.0	0.00026	330	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 218 et 219	-8891	Heating	-8891	70.0	330	400	0	0

Air System Sizing Summary for 11 2E 220 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **11 2E 220 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **839.5** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.5** Tons
Total coil load **6.1** MBH
Sensible coil load **4.3** MBH
Coil CFM at peak load **341** CFM
Sum of peak zone CFM **341** CFM
Sensible heat ratio **0.699**
CFM/Ton **668.2**
sqft/Ton **1645.9**
BTU/(hr sqft) **7.3**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 7:00**
OA DB / WB **68.8 / 66.5** F
Entering DB / WB **73.2 / 66.8** F
Leaving DB / WB **61.8 / 61.3** F
Resulting RH **65** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **12.6** MBH
Coil CFM at Design Heating **341** CFM
Max coil CFM **341** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **15.0**
Ent. DB / Lvg DB **60.8 / 94.9** F

Supply Fan Sizing Data

Design CFM **341** CFM
Design CFM/sqft **0.41** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.12** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 11 2E 220 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **11 2E 220 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **839.5** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 220	341	341	0.41	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 220	5.8	June 8:00	9.2	839.5

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 220						
2E 220	5.8	June 8:00	341	9.2	839.5	0.41

Air System Heat Balance Summary for 11 2E 220 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	4946	883	-	9180	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	341 CFM	0	-	341 CFM	0	-
Ventilation Load	100 CFM	-653	598	100 CFM	3391	0
Supply Fan Load	341 CFM	0	-	341 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	4293	1481	-	12571	0
Central Cooling Coil	-	4278	1842	-	0	0
Central Heating Coil	-	0	-	-	12581	-
>> Total Conditioning	-	4278	1842	-	12581	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	239 sqft	183	-	239 sqft	575	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	377	-	66 sqft	717	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	264	-	47 sqft	510	-
Floor Convection	839 sqft	1159	-	839 sqft	680	-
Interior Wall Convection	904 sqft	1003	-	904 sqft	496	-
Ceiling Convection	839 sqft	1473	-	839 sqft	891	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	35 CFM	4106	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	669	0	15%	1196	0
>> Total Zone Loads	-	5129	0	-	9173	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 11 2E 220 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

DESIGN COOLING DAY AT JULY 7:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	68.9	0.01349	100	400	-653	598
Air-to-Air Energy Recovery	Outlet	68.9	0.01349	100	400	0	0
Vent - Return Mixing	Outlet	73.2	0.01260	341	400	-	-
Central Cooling Coil	Outlet	61.8	0.01149	341	400	4278	1842
Central Heating Coil	Outlet	61.8	0.01149	341	400	0	-
Supply Fan	Outlet	61.8	0.01149	341	400	0	-
Cold Supply Duct	Outlet	61.8	0.01149	341	400	-	-
Zone Air	-	75.0	0.01204	341	400	4946	883
Return Air	Outlet	75.0	0.01222	341	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 220	4940	Cooling	4946	75.0	341	400	0	0

System Psychrometrics for 11 2E 220 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-3391	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	100	400	-6315	0
Vent - Return Mixing	Outlet	60.8	0.00026	341	400	-	-
Central Cooling Coil	Outlet	60.8	0.00026	341	400	0	0
Central Heating Coil	Outlet	94.9	0.00026	341	400	12581	-
Supply Fan	Outlet	94.9	0.00026	341	400	0	-
Cold Supply Duct	Outlet	94.9	0.00026	341	400	-	-
Zone Air	-	70.0	0.00026	341	400	-9180	0
Return Air	Outlet	70.0	0.00026	341	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 220	-9180	Heating	-9180	70.0	341	400	0	0

Air System Sizing Summary for 12 2E 221 à 225 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **12 2E 221 à 225 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **3265.4** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.7** Tons
Total coil load **20.4** MBH
Sensible coil load **13.4** MBH
Coil CFM at peak load **1181** CFM
Sum of peak zone CFM **1181** CFM
Sensible heat ratio **0.659**
CFM/Ton **696.0**
sqft/Ton **1924.0**
BTU/(hr sqft) **6.2**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 7:00**
OA DB / WB **68.8 / 66.5** F
Entering DB / WB **72.4 / 66.8** F
Leaving DB / WB **62.1 / 61.6** F
Resulting RH **65** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **48.8** MBH
Coil CFM at Design Heating **1181** CFM
Max coil CFM **1181** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **15.0**
Ent. DB / Lvg DB **56.7 / 95.0** F

Supply Fan Sizing Data

Design CFM **1181** CFM
Design CFM/sqft **0.36** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **500** CFM
CFM/sqft **0.15** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 12 2E 221 à 225 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **12 2E 221 à 225 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **3265.4** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 221 à 225	1181	1181	0.36	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 221 à 225	18.5	June 8:00	31.8	3265.4

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 221 à 225						
2E 221 à 225	18.5	June 8:00	1181	31.8	3265.4	0.36

Air System Heat Balance Summary for 12 2E 221 à 225 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	16765	2925	-	31841	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	1181 CFM	0	-	1181 CFM	0	-
Ventilation Load	500 CFM	-3266	2899	500 CFM	16955	0
Supply Fan Load	1181 CFM	0	-	1181 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	13499	5824	-	48795	0
Central Cooling Coil	-	13426	6940	-	0	0
Central Heating Coil	-	0	-	-	48843	-
>> Total Conditioning	-	13426	6940	-	48843	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	821 sqft	525	-	821 sqft	1966	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	165 sqft	926	-	165 sqft	1804	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	237 sqft	1301	-	237 sqft	2581	-
Floor Convection	3265 sqft	5968	-	3265 sqft	2596	-
Interior Wall Convection	1775 sqft	1502	-	1775 sqft	952	-
Ceiling Convection	3265 sqft	4864	-	3265 sqft	3471	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	122 CFM	14272	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	2263	0	15%	4146	0
>> Total Zone Loads	-	17350	0	-	31789	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 12 2E 221 à 225 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

DESIGN COOLING DAY AT JULY 7:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	68.9	0.01349	500	400	-3266	2899
Air-to-Air Energy Recovery	Outlet	68.9	0.01349	500	400	0	0
Vent - Return Mixing	Outlet	72.4	0.01278	1181	400	-	-
Central Cooling Coil	Outlet	62.1	0.01158	1181	400	13426	6940
Central Heating Coil	Outlet	62.1	0.01158	1181	400	0	-
Supply Fan	Outlet	62.1	0.01158	1181	400	0	-
Cold Supply Duct	Outlet	62.1	0.01158	1181	400	-	-
Zone Air	-	75.0	0.01211	1181	400	16765	2925
Return Air	Outlet	75.0	0.01226	1181	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 221 à 225	16747	Cooling	16765	75.0	1181	400	0	0

System Psychrometrics for 12 2E 221 à 225 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	500	400	-16955	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	500	400	-31576	0
Vent - Return Mixing	Outlet	56.7	0.00026	1181	400	-	-
Central Cooling Coil	Outlet	56.7	0.00026	1181	400	0	0
Central Heating Coil	Outlet	95.0	0.00026	1181	400	48843	-
Supply Fan	Outlet	95.0	0.00026	1181	400	0	-
Cold Supply Duct	Outlet	95.0	0.00026	1181	400	-	-
Zone Air	-	70.0	0.00026	1181	400	-31841	0
Return Air	Outlet	70.0	0.00026	1181	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 221 à 225	-31841	Heating	-31841	70.0	1181	400	0	0

Air System Sizing Summary for 13 2E 226 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **13 2E 226 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **573.0** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.2** Tons
Total coil load **2.5** MBH
Sensible coil load **1.7** MBH
Coil CFM at peak load **166** CFM
Sum of peak zone CFM **166** CFM
Sensible heat ratio **0.655**
CFM/Ton **790.3**
sqft/Ton **2726.5**
BTU/(hr sqft) **4.4**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 8:00**
OA DB / WB **70.0 / 66.9** F
Entering DB / WB **72.2 / 67.0** F
Leaving DB / WB **63.2 / 62.4** F
Resulting RH **65** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **7.9** MBH
Coil CFM at Design Heating **166** CFM
Max coil CFM **166** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **13.7**
Ent. DB / Lvg DB **51.0 / 94.9** F

Supply Fan Sizing Data

Design CFM **166** CFM
Design CFM/sqft **0.29** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.17** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 13 2E 226 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **13 2E 226 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **573.0** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 226	166	166	0.29	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 226	2.4	June 8:00	4.5	573.0

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 226						
2E 226	2.4	June 8:00	166	4.5	573.0	0.29

Air System Heat Balance Summary for 13 2E 226 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	2159	172	-	4471	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	166 CFM	0	-	166 CFM	0	-
Ventilation Load	100 CFM	-496	611	100 CFM	3391	0
Supply Fan Load	166 CFM	0	-	166 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	1663	783	-	7862	0
Central Cooling Coil	-	1653	869	-	0	0
Central Heating Coil	-	0	-	-	7872	-
>> Total Conditioning	-	1653	869	-	7872	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	129 sqft	77	-	129 sqft	280	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	0 sqft	0	-	0 sqft	0	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	253	-	47 sqft	512	-
Floor Convection	573 sqft	491	-	573 sqft	289	-
Interior Wall Convection	901 sqft	686	-	901 sqft	332	-
Ceiling Convection	573 sqft	568	-	573 sqft	421	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	18 CFM	2053	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	311	0	15%	583	0
>> Total Zone Loads	-	2386	0	-	4470	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 13 2E 226 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

DESIGN COOLING DAY AT JULY 8:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	70.4	0.01350	100	400	-496	611
Air-to-Air Energy Recovery	Outlet	70.4	0.01350	100	400	0	0
Vent - Return Mixing	Outlet	72.2	0.01298	166	400	-	-
Central Cooling Coil	Outlet	63.2	0.01191	166	400	1653	869
Central Heating Coil	Outlet	63.2	0.01191	166	400	0	-
Supply Fan	Outlet	63.2	0.01191	166	400	0	-
Cold Supply Duct	Outlet	63.2	0.01191	166	400	-	-
Zone Air	-	75.0	0.01213	166	400	2159	172
Return Air	Outlet	75.0	0.01220	166	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 226	2158	Cooling	2159	75.0	166	400	0	0

System Psychrometrics for 13 2E 226 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-3391	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	100	400	-6315	0
Vent - Return Mixing	Outlet	51.0	0.00026	166	400	-	-
Central Cooling Coil	Outlet	51.0	0.00026	166	400	0	0
Central Heating Coil	Outlet	94.9	0.00026	166	400	7872	-
Supply Fan	Outlet	94.9	0.00026	166	400	0	-
Cold Supply Duct	Outlet	94.9	0.00026	166	400	-	-
Zone Air	-	70.0	0.00026	166	400	-4471	0
Return Air	Outlet	70.0	0.00026	166	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 226	-4471	Heating	-4471	70.0	166	400	0	0

Air System Sizing Summary for 14 2E 227 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **14 2E 227 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **852.3** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.4** Tons
Total coil load **5.3** MBH
Sensible coil load **4.8** MBH
Coil CFM at peak load **531** CFM
Sum of peak zone CFM **531** CFM
Sensible heat ratio **0.903**
CFM/Ton **1201.6**
sqft/Ton **1927.6**
BTU/(hr sqft) **6.2**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 8:00**
OA DB / WB **70.0 / 66.9** F
Entering DB / WB **74.1 / 67.4** F
Leaving DB / WB **66.0 / 64.4** F
Resulting RH **68** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **17.7** MBH
Coil CFM at Design Heating **531** CFM
Max coil CFM **531** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **20.7**
Ent. DB / Lvg DB **64.1 / 94.9** F

Supply Fan Sizing Data

Design CFM **531** CFM
Design CFM/sqft **0.62** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.12** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 14 2E 227 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **14 2E 227 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **852.3** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 227	531	531	0.62	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 227	5.4	July 8:00	14.3	852.3

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 227						
2E 227	5.4	July 8:00	531	14.3	852.3	0.62

Air System Heat Balance Summary for 14 2E 227 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	5300	58	-	14277	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	531 CFM	0	-	531 CFM	0	-
Ventilation Load	100 CFM	-496	384	100 CFM	3391	0
Supply Fan Load	531 CFM	0	-	531 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	4804	442	-	17668	0
Central Cooling Coil	-	4792	514	-	0	0
Central Heating Coil	-	0	-	-	17677	-
>> Total Conditioning	-	4792	514	-	17677	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	520 sqft	462	-	520 sqft	1420	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	407	-	66 sqft	722	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	286	-	47 sqft	514	-
Floor Convection	852 sqft	1586	-	852 sqft	891	-
Interior Wall Convection	634 sqft	617	-	634 sqft	414	-
Ceiling Convection	852 sqft	1357	-	852 sqft	1077	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	63 CFM	7395	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	707	0	15%	1865	0
>> Total Zone Loads	-	5423	0	-	14298	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 14 2E 227 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

DESIGN COOLING DAY AT JULY 8:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	70.4	0.01350	100	400	-496	384
Air-to-Air Energy Recovery	Outlet	70.4	0.01350	100	400	0	0
Vent - Return Mixing	Outlet	74.1	0.01284	531	400	-	-
Central Cooling Coil	Outlet	66.0	0.01264	531	400	4792	514
Central Heating Coil	Outlet	66.0	0.01264	531	400	0	-
Supply Fan	Outlet	66.0	0.01264	531	400	0	-
Cold Supply Duct	Outlet	66.0	0.01264	531	400	-	-
Zone Air	-	75.0	0.01266	531	400	5300	58
Return Air	Outlet	75.0	0.01268	531	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 227	5300	Cooling	5300	75.0	531	400	0	0

System Psychrometrics for 14 2E 227 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-3391	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	100	400	-6315	0
Vent - Return Mixing	Outlet	64.1	0.00026	531	400	-	-
Central Cooling Coil	Outlet	64.1	0.00026	531	400	0	0
Central Heating Coil	Outlet	94.9	0.00026	531	400	17677	-
Supply Fan	Outlet	94.9	0.00026	531	400	0	-
Cold Supply Duct	Outlet	94.9	0.00026	531	400	-	-
Zone Air	-	70.0	0.00026	531	400	-14277	0
Return Air	Outlet	70.0	0.00026	531	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 227	-14277	Heating	-14277	70.0	531	400	0	0

Air System Sizing Summary for 15 2E 228 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **15 2E 228 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **593.9** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.4** Tons
Total coil load **4.7** MBH
Sensible coil load **3.3** MBH
Coil CFM at peak load **197** CFM
Sum of peak zone CFM **197** CFM
Sensible heat ratio **0.696**
CFM/Ton **499.4**
sqft/Ton **1504.8**
BTU/(hr sqft) **8.0**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 10:00**
OA DB / WB **76.4 / 68.9** F
Entering DB / WB **75.3 / 67.1** F
Leaving DB / WB **60.1 / 59.7** F
Resulting RH **60** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **8.2** MBH
Coil CFM at Design Heating **197** CFM
Max coil CFM **197** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **13.7**
Ent. DB / Lvg DB **54.0 / 92.4** F

Supply Fan Sizing Data

Design CFM **197** CFM
Design CFM/sqft **0.33** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.17** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 15 2E 228 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **15 2E 228 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **593.9** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 228	197	197	0.33	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 228	3.6	September 10:00	4.7	593.9

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 228						
2E 228	3.6	September 10:00	197	4.7	593.9	0.33

Air System Heat Balance Summary for 15 2E 228 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 10:00			DESIGN HEATING		
	OA DB / WB 76.4 F / 68.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	3229	217	-	4760	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	197 CFM	0	-	197 CFM	0	-
Ventilation Load	100 CFM	60	1095	100 CFM	3391	0
Supply Fan Load	197 CFM	0	-	197 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	3289	1312	-	8150	0
Central Cooling Coil	-	3298	1438	-	0	0
Central Heating Coil	-	0	-	-	8160	-
>> Total Conditioning	-	3298	1438	-	8160	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 10:00			DESIGN HEATING		
	OA DB / WB 76.4 F / 68.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	143 sqft	169	-	143 sqft	312	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	0 sqft	0	-	0 sqft	0	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	403	-	47 sqft	510	-
Floor Convection	594 sqft	726	-	594 sqft	302	-
Interior Wall Convection	895 sqft	881	-	895 sqft	319	-
Ceiling Convection	594 sqft	914	-	594 sqft	438	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	19 CFM	2224	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	464	0	15%	616	0
>> Total Zone Loads	-	3557	0	-	4720	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 15 2E 228 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

DESIGN COOLING DAY AT AUGUST 10:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	76.6	0.01351	100	400	60	1095
Air-to-Air Energy Recovery	Outlet	75.6	0.01351	100	400	114	0
Vent - Return Mixing	Outlet	75.3	0.01237	197	400	-	-
Central Cooling Coil	Outlet	60.1	0.01088	197	400	3298	1438
Central Heating Coil	Outlet	60.1	0.01088	197	400	0	-
Supply Fan	Outlet	60.1	0.01088	197	400	0	-
Cold Supply Duct	Outlet	60.1	0.01088	197	400	-	-
Zone Air	-	75.0	0.01111	197	400	3229	217
Return Air	Outlet	75.0	0.01120	197	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 228	3228	Cooling	3229	75.0	197	400	0	0

System Psychrometrics for 15 2E 228 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-3391	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	100	400	-6315	0
Vent - Return Mixing	Outlet	54.0	0.00026	197	400	-	-
Central Cooling Coil	Outlet	54.0	0.00026	197	400	0	0
Central Heating Coil	Outlet	92.4	0.00026	197	400	8160	-
Supply Fan	Outlet	92.4	0.00026	197	400	0	-
Cold Supply Duct	Outlet	92.4	0.00026	197	400	-	-
Zone Air	-	70.0	0.00026	197	400	-4760	0
Return Air	Outlet	70.0	0.00026	197	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 228	-4760	Heating	-4760	70.0	197	400	0	0

Air System Sizing Summary for 16 2E 229 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **16 2E 229 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **991.0** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.6** Tons
Total coil load **6.6** MBH
Sensible coil load **6.0** MBH
Coil CFM at peak load **592** CFM
Sum of peak zone CFM **592** CFM
Sensible heat ratio **0.911**
CFM/Ton **1070.1**
sqft/Ton **1791.4**
BTU/(hr sqft) **6.7**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 10:00**
OA DB / WB **76.4 / 68.9** F
Entering DB / WB **75.1 / 67.8** F
Leaving DB / WB **65.8 / 64.5** F
Resulting RH **69** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **19.3** MBH
Coil CFM at Design Heating **592** CFM
Max coil CFM **592** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **19.5**
Ent. DB / Lvg DB **64.7 / 94.9** F

Supply Fan Sizing Data

Design CFM **592** CFM
Design CFM/sqft **0.60** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.10** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 16 2E 229 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **16 2E 229 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **991.0** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 229	592	592	0.60	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 229	6.1	September 11:00	15.9	991.0

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 229						
2E 229	6.1	September 11:00	592	15.9	991.0	0.60

Air System Heat Balance Summary for 16 2E 229 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 10:00			DESIGN HEATING		
	OA DB / WB 76.4 F / 68.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	5985	146	-	15901	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	592 CFM	0	-	592 CFM	0	-
Ventilation Load	100 CFM	60	328	100 CFM	3391	0
Supply Fan Load	592 CFM	0	-	592 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	6044	474	-	19292	0
Central Cooling Coil	-	6047	591	-	0	0
Central Heating Coil	-	0	-	-	19301	-
>> Total Conditioning	-	6047	591	-	19301	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 10:00			DESIGN HEATING		
	OA DB / WB 76.4 F / 68.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	608 sqft	585	-	608 sqft	1636	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	345	-	66 sqft	709	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	406	-	47 sqft	510	-
Floor Convection	991 sqft	1801	-	991 sqft	997	-
Interior Wall Convection	606 sqft	563	-	606 sqft	378	-
Ceiling Convection	991 sqft	1473	-	991 sqft	1206	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	72 CFM	8418	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	776	0	15%	2078	0
>> Total Zone Loads	-	5950	0	-	15932	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 16 2E 229 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

DESIGN COOLING DAY AT AUGUST 10:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	76.6	0.01351	100	400	60	328
Air-to-Air Energy Recovery	Outlet	75.6	0.01351	100	400	114	0
Vent - Return Mixing	Outlet	75.1	0.01293	592	400	-	-
Central Cooling Coil	Outlet	65.8	0.01273	592	400	6047	591
Central Heating Coil	Outlet	65.8	0.01273	592	400	0	-
Supply Fan	Outlet	65.8	0.01273	592	400	0	-
Cold Supply Duct	Outlet	65.8	0.01273	592	400	-	-
Zone Air	-	75.0	0.01278	592	400	5985	146
Return Air	Outlet	75.0	0.01282	592	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 229	5983	Cooling	5985	75.0	592	400	0	0

System Psychrometrics for 16 2E 229 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-3391	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	100	400	-6315	0
Vent - Return Mixing	Outlet	64.7	0.00026	592	400	-	-
Central Cooling Coil	Outlet	64.7	0.00026	592	400	0	0
Central Heating Coil	Outlet	94.9	0.00026	592	400	19301	-
Supply Fan	Outlet	94.9	0.00026	592	400	0	-
Cold Supply Duct	Outlet	94.9	0.00026	592	400	-	-
Zone Air	-	70.0	0.00026	592	400	-15901	0
Return Air	Outlet	70.0	0.00026	592	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 229	-15901	Heating	-15901	70.0	592	400	0	0

Air System Sizing Summary for 17 2E 230 à 234 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **17 2E 230 à 234 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **3286.8** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **3.2** Tons
Total coil load **38.5** MBH
Sensible coil load **30.7** MBH
Coil CFM at peak load **1731** CFM
Sum of peak zone CFM **1731** CFM
Sensible heat ratio **0.798**
CFM/Ton **540.0**
sqft/Ton **1025.5**
BTU/(hr sqft) **11.7**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 15:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **76.1 / 66.6** F
Leaving DB / WB **60.0 / 59.7** F
Resulting RH **59** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **49.3** MBH
Coil CFM at Design Heating **1731** CFM
Max coil CFM **1731** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **15.0**
Ent. DB / Lvg DB **60.9 / 87.3** F

Supply Fan Sizing Data

Design CFM **1731** CFM
Design CFM/sqft **0.53** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **500** CFM
CFM/sqft **0.15** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 17 2E 230 à 234 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **17 2E 230 à 234 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **3286.8** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 230 à 234	1731	1731	0.53	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 230 à 234	31.7	September 15:00	31.6	3286.8

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 230 à 234						
2E 230 à 234	31.7	September 15:00	1731	31.6	3286.8	0.53

Air System Heat Balance Summary for 17 2E 230 à 234 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	28506	1066	-	32248	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	1731 CFM	0	-	1731 CFM	0	-
Ventilation Load	500 CFM	2077	5818	500 CFM	16955	0
Supply Fan Load	1731 CFM	0	-	1731 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	30584	6884	-	49202	0
Central Cooling Coil	-	30695	7765	-	0	0
Central Heating Coil	-	0	-	-	49250	-
>> Total Conditioning	-	30695	7765	-	49250	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	821 sqft	1566	-	821 sqft	1957	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	165 sqft	1766	-	165 sqft	1763	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	237 sqft	2513	-	237 sqft	2514	-
Floor Convection	3287 sqft	9752	-	3287 sqft	2560	-
Interior Wall Convection	1779 sqft	2496	-	1779 sqft	942	-
Ceiling Convection	3287 sqft	8119	-	3287 sqft	3437	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	122 CFM	14272	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	3932	0	15%	4117	0
>> Total Zone Loads	-	30145	0	-	31562	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 17 2E 230 à 234 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

DESIGN COOLING DAY AT AUGUST 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	500	400	2077	5818
Air-to-Air Energy Recovery	Outlet	78.9	0.01352	500	400	3946	0
Vent - Return Mixing	Outlet	76.1	0.01178	1731	400	-	-
Central Cooling Coil	Outlet	60.0	0.01086	1731	400	30695	7765
Central Heating Coil	Outlet	60.0	0.01086	1731	400	0	-
Supply Fan	Outlet	60.0	0.01086	1731	400	0	-
Cold Supply Duct	Outlet	60.0	0.01086	1731	400	-	-
Zone Air	-	75.0	0.01099	1731	400	28506	1066
Return Air	Outlet	75.0	0.01107	1731	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 230 à 234	28498	Cooling	28507	75.0	1731	400	0	0

System Psychrometrics for 17 2E 230 à 234 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	500	400	-16955	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	500	400	-31576	0
Vent - Return Mixing	Outlet	60.9	0.00026	1731	400	-	-
Central Cooling Coil	Outlet	60.9	0.00026	1731	400	0	0
Central Heating Coil	Outlet	87.3	0.00026	1731	400	49250	-
Supply Fan	Outlet	87.3	0.00026	1731	400	0	-
Cold Supply Duct	Outlet	87.3	0.00026	1731	400	-	-
Zone Air	-	70.0	0.00026	1731	400	-32248	0
Return Air	Outlet	70.0	0.00026	1731	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 230 à 234	-32248	Heating	-32248	70.0	1731	400	0	0

Air System Sizing Summary for 18 2E 235 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **18 2E 235 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **844.7** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.9** Tons
Total coil load **10.5** MBH
Sensible coil load **8.8** MBH
Coil CFM at peak load **516** CFM
Sum of peak zone CFM **516** CFM
Sensible heat ratio **0.841**
CFM/Ton **591.0**
sqft/Ton **966.7**
BTU/(hr sqft) **12.4**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 15:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **75.8 / 66.2** F
Leaving DB / WB **60.3 / 59.9** F
Resulting RH **59** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **12.7** MBH
Coil CFM at Design Heating **516** CFM
Max coil CFM **516** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **15.0**
Ent. DB / Lvg DB **63.9 / 86.6** F

Supply Fan Sizing Data

Design CFM **516** CFM
Design CFM/sqft **0.61** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.12** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 18 2E 235 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **18 2E 235 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **844.7** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 235	516	516	0.61	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 235	9.5	September 15:00	9.1	844.7

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 235						
2E 235	9.5	September 15:00	516	9.1	844.7	0.61

Air System Heat Balance Summary for 18 2E 235 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	8378	284	-	9255	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	516 CFM	0	-	516 CFM	0	-
Ventilation Load	100 CFM	415	1138	100 CFM	3391	0
Supply Fan Load	516 CFM	0	-	516 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	8793	1422	-	12646	0
Central Cooling Coil	-	8815	1670	-	0	0
Central Heating Coil	-	0	-	-	12656	-
>> Total Conditioning	-	8815	1670	-	12656	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	238 sqft	488	-	238 sqft	572	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	731	-	66 sqft	703	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	517	-	47 sqft	497	-
Floor Convection	845 sqft	2459	-	845 sqft	671	-
Interior Wall Convection	907 sqft	1421	-	907 sqft	489	-
Ceiling Convection	845 sqft	2199	-	845 sqft	883	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	35 CFM	4100	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	1172	0	15%	1187	0
>> Total Zone Loads	-	8986	0	-	9103	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 18 2E 235 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

DESIGN COOLING DAY AT AUGUST 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	100	400	415	1138
Air-to-Air Energy Recovery	Outlet	78.9	0.01352	100	400	789	0
Vent - Return Mixing	Outlet	75.8	0.01158	516	400	-	-
Central Cooling Coil	Outlet	60.3	0.01092	516	400	8815	1670
Central Heating Coil	Outlet	60.3	0.01092	516	400	0	-
Supply Fan	Outlet	60.3	0.01092	516	400	0	-
Cold Supply Duct	Outlet	60.3	0.01092	516	400	-	-
Zone Air	-	75.0	0.01104	516	400	8378	284
Return Air	Outlet	75.0	0.01112	516	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 235	8376	Cooling	8378	75.0	516	400	0	0

System Psychrometrics for 18 2E 235 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-3391	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	100	400	-6315	0
Vent - Return Mixing	Outlet	63.9	0.00026	516	400	-	-
Central Cooling Coil	Outlet	63.9	0.00026	516	400	0	0
Central Heating Coil	Outlet	86.6	0.00026	516	400	12656	-
Supply Fan	Outlet	86.6	0.00026	516	400	0	-
Cold Supply Duct	Outlet	86.6	0.00026	516	400	-	-
Zone Air	-	70.0	0.00026	516	400	-9255	0
Return Air	Outlet	70.0	0.00026	516	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 235	-9255	Heating	-9255	70.0	516	400	0	0

Air System Sizing Summary for 19 2E 236 et 237 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **19 2E 236 et 237 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **1153.7** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.9** Tons
Total coil load **10.7** MBH
Sensible coil load **7.8** MBH
Coil CFM at peak load **428** CFM
Sum of peak zone CFM **428** CFM
Sensible heat ratio **0.730**
CFM/Ton **480.7**
sqft/Ton **1296.5**
BTU/(hr sqft) **9.3**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 15:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **76.8 / 67.6** F
Leaving DB / WB **60.3 / 60.0** F
Resulting RH **60** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **15.7** MBH
Coil CFM at Design Heating **428** CFM
Max coil CFM **428** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **13.6**
Ent. DB / Lvg DB **55.3 / 89.4** F

Supply Fan Sizing Data

Design CFM **428** CFM
Design CFM/sqft **0.37** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **200** CFM
CFM/sqft **0.17** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 19 2E 236 et 237 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **19 2E 236 et 237 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **1153.7** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 236 et 237	428	428	0.37	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 236 et 237	7.8	September 15:00	8.8	1153.7

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 236 et 237						
2E 236 et 237	7.8	September 15:00	428	8.8	1153.7	0.37

Air System Heat Balance Summary for 19 2E 236 et 237 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	6922	513	-	8942	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	428 CFM	0	-	428 CFM	0	-
Ventilation Load	200 CFM	831	2071	200 CFM	6782	0
Supply Fan Load	428 CFM	0	-	428 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	7753	2584	-	15724	0
Central Cooling Coil	-	7795	2884	-	0	0
Central Heating Coil	-	0	-	-	15743	-
>> Total Conditioning	-	7795	2884	-	15743	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	258 sqft	422	-	258 sqft	565	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	0 sqft	0	-	0 sqft	0	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	95 sqft	908	-	95 sqft	997	-
Floor Convection	1154 sqft	1636	-	1154 sqft	609	-
Interior Wall Convection	1256 sqft	1407	-	1256 sqft	476	-
Ceiling Convection	1154 sqft	2099	-	1154 sqft	883	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	35 CFM	4111	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	971	0	15%	1146	0
>> Total Zone Loads	-	7443	0	-	8787	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 19 2E 236 et 237 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

DESIGN COOLING DAY AT AUGUST 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	200	400	831	2071
Air-to-Air Energy Recovery	Outlet	78.9	0.01352	200	400	1579	0
Vent - Return Mixing	Outlet	76.8	0.01236	428	400	-	-
Central Cooling Coil	Outlet	60.3	0.01098	428	400	7795	2884
Central Heating Coil	Outlet	60.3	0.01098	428	400	0	-
Supply Fan	Outlet	60.3	0.01098	428	400	0	-
Cold Supply Duct	Outlet	60.3	0.01098	428	400	-	-
Zone Air	-	75.0	0.01123	428	400	6922	513
Return Air	Outlet	75.0	0.01134	428	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 236 et 237	6918	Cooling	6922	75.0	428	400	0	0

System Psychrometrics for 19 2E 236 et 237 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	200	400	-6782	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	200	400	-12631	0
Vent - Return Mixing	Outlet	55.3	0.00026	428	400	-	-
Central Cooling Coil	Outlet	55.3	0.00026	428	400	0	0
Central Heating Coil	Outlet	89.4	0.00026	428	400	15743	-
Supply Fan	Outlet	89.4	0.00026	428	400	0	-
Cold Supply Duct	Outlet	89.4	0.00026	428	400	-	-
Zone Air	-	70.0	0.00026	428	400	-8942	0
Return Air	Outlet	70.0	0.00026	428	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 236 et 237	-8942	Heating	-8942	70.0	428	400	0	0

Air System Sizing Summary for 20 2E salle commune 257 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **20 2E salle commune 257 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **193.7** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.2** Tons
Total coil load **2.6** MBH
Sensible coil load **2.1** MBH
Coil CFM at peak load **126** CFM
Sum of peak zone CFM **126** CFM
Sensible heat ratio **0.786**
CFM/Ton **572.2**
sqft/Ton **879.2**
BTU/(hr sqft) **13.6**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 10:00**
OA DB / WB **76.4 / 68.9** F
Entering DB / WB **75.2 / 66.3** F
Leaving DB / WB **60.2 / 59.8** F
Resulting RH **59** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **4.6** MBH
Coil CFM at Design Heating **126** CFM
Max coil CFM **126** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **23.8**
Ent. DB / Lvg DB **60.8 / 94.6** F

Supply Fan Sizing Data

Design CFM **126** CFM
Design CFM/sqft **0.65** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **37** CFM
CFM/sqft **0.19** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 20 2E salle commune 257 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **20 2E salle commune 257 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **193.7** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E salle commune 257	126	126	0.65	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E salle commune 257	2.3	September 11:00	3.4	193.7

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E salle commune 257						
2E salle commune 257	2.3	September 11:00	126	3.4	193.7	0.65

Air System Heat Balance Summary for 20 2E salle commune 257 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 10:00			DESIGN HEATING		
	OA DB / WB 76.4 F / 68.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	2053	72	-	3348	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	126 CFM	0	-	126 CFM	0	-
Ventilation Load	37 CFM	22	424	37 CFM	1255	0
Supply Fan Load	126 CFM	0	-	126 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	2075	496	-	4602	0
Central Cooling Coil	-	2078	566	-	0	0
Central Heating Coil	-	0	-	-	4606	-
>> Total Conditioning	-	2078	566	-	4606	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 10:00			DESIGN HEATING		
	OA DB / WB 76.4 F / 68.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	118 sqft	186	-	118 sqft	302	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	28 sqft	276	-	28 sqft	298	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	0 sqft	0	-	0 sqft	0	-
Floor Convection	194 sqft	366	-	194 sqft	165	-
Interior Wall Convection	460 sqft	653	-	460 sqft	253	-
Ceiling Convection	194 sqft	446	-	194 sqft	204	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	15 CFM	1695	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	289	0	15%	438	0
>> Total Zone Loads	-	2216	0	-	3354	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 20 2E salle commune 257 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

DESIGN COOLING DAY AT AUGUST 10:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	76.6	0.01351	37	400	22	424
Air-to-Air Energy Recovery	Outlet	75.6	0.01351	37	400	42	0
Vent - Return Mixing	Outlet	75.2	0.01180	126	400	-	-
Central Cooling Coil	Outlet	60.2	0.01088	126	400	2078	566
Central Heating Coil	Outlet	60.2	0.01088	126	400	0	-
Supply Fan	Outlet	60.2	0.01088	126	400	0	-
Cold Supply Duct	Outlet	60.2	0.01088	126	400	-	-
Zone Air	-	75.0	0.01100	126	400	2053	72
Return Air	Outlet	75.0	0.01109	126	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E salle commune 257	2052	Cooling	2053	75.0	126	400	0	0

System Psychrometrics for 20 2E salle commune 257 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	37	400	-1255	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	37	400	-2337	0
Vent - Return Mixing	Outlet	60.8	0.00026	126	400	-	-
Central Cooling Coil	Outlet	60.8	0.00026	126	400	0	0
Central Heating Coil	Outlet	94.6	0.00026	126	400	4606	-
Supply Fan	Outlet	94.6	0.00026	126	400	0	-
Cold Supply Duct	Outlet	94.6	0.00026	126	400	-	-
Zone Air	-	70.0	0.00026	126	400	-3348	0
Return Air	Outlet	70.0	0.00026	126	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E salle commune 257	-3348	Heating	-3348	70.0	126	400	0	0

Air System Sizing Summary for 21 3E 301 à 308 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **21 3E 301 à 308 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **5777.7** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **5.4** Tons
Total coil load **64.3** MBH
Sensible coil load **51.5** MBH
Coil CFM at peak load **2923** CFM
Sum of peak zone CFM **2923** CFM
Sensible heat ratio **0.801**
CFM/Ton **545.4**
sqft/Ton **1077.9**
BTU/(hr sqft) **11.1**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 15:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **76.1 / 66.5** F
Leaving DB / WB **60.1 / 59.7** F
Resulting RH **59** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **84.4** MBH
Coil CFM at Design Heating **2923** CFM
Max coil CFM **2923** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **14.6**
Ent. DB / Lvg DB **61.4 / 88.1** F

Supply Fan Sizing Data

Design CFM **2923** CFM
Design CFM/sqft **0.51** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **800** CFM
CFM/sqft **0.14** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 21 3E 301 à 308 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **21 3E 301 à 308 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **5777.7** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
3E 301 à 308	2923	2923	0.51	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
3E 301 à 308	53.5	September 15:00	56.2	5777.7

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
3E 301 à 308						
3E 301 à 308	53.5	September 15:00	2923	56.2	5777.7	0.51

Air System Heat Balance Summary for 21 3E 301 à 308 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	48035	2053	-	57186	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	2923 CFM	0	-	2923 CFM	0	-
Ventilation Load	800 CFM	3324	9167	800 CFM	27128	0
Supply Fan Load	2923 CFM	0	-	2923 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	51359	11220	-	84314	0
Central Cooling Coil	-	51536	12785	-	0	0
Central Heating Coil	-	0	-	-	84391	-
>> Total Conditioning	-	51536	12785	-	84391	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	1605 sqft	3472	-	1605 sqft	3812	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	314 sqft	3316	-	314 sqft	3354	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	332 sqft	3490	-	332 sqft	3548	-
Floor Convection	5778 sqft	12934	-	5778 sqft	4374	-
Interior Wall Convection	2980 sqft	4886	-	2980 sqft	1546	-
Ceiling Convection	5778 sqft	16040	-	5778 sqft	5989	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	225 CFM	26269	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	6621	0	15%	7334	0
>> Total Zone Loads	-	50759	0	-	56224	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 21 3E 301 à 308 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

DESIGN COOLING DAY AT AUGUST 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	800	400	3324	9167
Air-to-Air Energy Recovery	Outlet	78.9	0.01352	800	400	6314	0
Vent - Return Mixing	Outlet	76.1	0.01177	2923	400	-	-
Central Cooling Coil	Outlet	60.1	0.01087	2923	400	51536	12785
Central Heating Coil	Outlet	60.1	0.01087	2923	400	0	-
Supply Fan	Outlet	60.1	0.01087	2923	400	0	-
Cold Supply Duct	Outlet	60.1	0.01087	2923	400	-	-
Zone Air	-	75.0	0.01102	2923	400	48035	2053
Return Air	Outlet	75.0	0.01110	2923	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
3E 301 à 308	48019	Cooling	48035	75.0	2923	400	0	0

System Psychrometrics for 21 3E 301 à 308 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	800	400	-27128	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	800	400	-50522	0
Vent - Return Mixing	Outlet	61.4	0.00026	2923	400	-	-
Central Cooling Coil	Outlet	61.4	0.00026	2923	400	0	0
Central Heating Coil	Outlet	88.1	0.00026	2923	400	84391	-
Supply Fan	Outlet	88.1	0.00026	2923	400	0	-
Cold Supply Duct	Outlet	88.1	0.00026	2923	400	-	-
Zone Air	-	70.0	0.00026	2923	400	-57186	0
Return Air	Outlet	70.0	0.00026	2923	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
3E 301 à 308	-57186	Heating	-57186	70.0	2923	400	0	0

Air System Sizing Summary for 22 3E 309 à 328 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **22 3E 309 à 328 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **13391.1** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **6.4** Tons
Total coil load **77.4** MBH
Sensible coil load **54.6** MBH
Coil CFM at peak load **5370** CFM
Sum of peak zone CFM **5370** CFM
Sensible heat ratio **0.706**
CFM/Ton **832.7**
sqft/Ton **2076.5**
BTU/(hr sqft) **5.8**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 7:00**
OA DB / WB **68.8 / 66.5** F
Entering DB / WB **72.7 / 67.0** F
Leaving DB / WB **63.5 / 62.7** F
Resulting RH **67** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **212.5** MBH
Coil CFM at Design Heating **5370** CFM
Max coil CFM **5370** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **15.9**
Ent. DB / Lvg DB **58.3 / 94.9** F

Supply Fan Sizing Data

Design CFM **5370** CFM
Design CFM/sqft **0.40** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **2000** CFM
CFM/sqft **0.15** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 22 3E 309 à 328 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **22 3E 309 à 328 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **13391.1** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
3E 309 à 328	5370	5370	0.40	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
3E 309 à 328	72.4	June 8:00	144.5	13391.1

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
3E 309 à 328						
3E 309 à 328	72.4	June 8:00	5370	144.5	13391.1	0.40

Air System Heat Balance Summary for 22 3E 309 à 328 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	68009	9780	-	144495	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	5370 CFM	0	-	5370 CFM	0	-
Ventilation Load	2000 CFM	-13065	8926	2000 CFM	67819	0
Supply Fan Load	5370 CFM	0	-	5370 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	54944	18705	-	212314	0
Central Cooling Coil	-	54632	22756	-	0	0
Central Heating Coil	-	0	-	-	212506	-
>> Total Conditioning	-	54632	22756	-	212506	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	4109 sqft	3234	-	4109 sqft	10162	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	759 sqft	3988	-	759 sqft	8318	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	900 sqft	4686	-	900 sqft	9876	-
Floor Convection	13391 sqft	20702	-	13391 sqft	11617	-
Interior Wall Convection	5217 sqft	4903	-	5217 sqft	2950	-
Ceiling Convection	13391 sqft	21894	-	13391 sqft	15394	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	577 CFM	67346	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	8911	0	15%	18850	0
>> Total Zone Loads	-	68318	0	-	144513	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 22 3E 309 à 328 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

DESIGN COOLING DAY AT JULY 7:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	68.9	0.01349	2000	400	-13065	8926
Air-to-Air Energy Recovery	Outlet	68.9	0.01349	2000	400	0	0
Vent - Return Mixing	Outlet	72.7	0.01290	5370	400	-	-
Central Cooling Coil	Outlet	63.5	0.01203	5370	400	54632	22756
Central Heating Coil	Outlet	63.5	0.01203	5370	400	0	-
Supply Fan	Outlet	63.5	0.01203	5370	400	0	-
Cold Supply Duct	Outlet	63.5	0.01203	5370	400	-	-
Zone Air	-	75.0	0.01242	5370	400	68009	9780
Return Air	Outlet	75.0	0.01255	5370	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
3E 309 à 328	67951	Cooling	68008	75.0	5370	400	0	0

System Psychrometrics for 22 3E 309 à 328 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	2000	400	-67819	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	2000	400	-126306	0
Vent - Return Mixing	Outlet	58.3	0.00026	5370	400	-	-
Central Cooling Coil	Outlet	58.3	0.00026	5370	400	0	0
Central Heating Coil	Outlet	94.9	0.00026	5370	400	212506	-
Supply Fan	Outlet	94.9	0.00026	5370	400	0	-
Cold Supply Duct	Outlet	94.9	0.00026	5370	400	-	-
Zone Air	-	70.0	0.00026	5370	400	-144495	0
Return Air	Outlet	70.0	0.00026	5370	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
3E 309 à 328	-144495	Heating	-144495	70.0	5370	400	0	0

Air System Sizing Summary for 23 3E 329 et 330 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **23 3E 329 et 330 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **1584.9** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.9** Tons
Total coil load **11.0** MBH
Sensible coil load **9.4** MBH
Coil CFM at peak load **767** CFM
Sum of peak zone CFM **767** CFM
Sensible heat ratio **0.850**
CFM/Ton **833.7**
sqft/Ton **1723.7**
BTU/(hr sqft) **7.0**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 10:00**
OA DB / WB **76.4 / 68.9** F
Entering DB / WB **75.1 / 67.4** F
Leaving DB / WB **64.1 / 63.1** F
Resulting RH **66** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **27.4** MBH
Coil CFM at Design Heating **767** CFM
Max coil CFM **767** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **17.3**
Ent. DB / Lvg DB **61.8 / 94.9** F

Supply Fan Sizing Data

Design CFM **767** CFM
Design CFM/sqft **0.48** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **200** CFM
CFM/sqft **0.13** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 23 3E 329 et 330 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **23 3E 329 et 330 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **1584.9** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
3E 329 et 330	767	767	0.48	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
3E 329 et 330	9.5	September 11:00	20.6	1584.9

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
3E 329 et 330						
3E 329 et 330	9.5	September 11:00	767	20.6	1584.9	0.48

Air System Heat Balance Summary for 23 3E 329 et 330 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 10:00			DESIGN HEATING		
	OA DB / WB 76.4 F / 68.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	9249	300	-	20613	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	767 CFM	0	-	767 CFM	0	-
Ventilation Load	200 CFM	120	1137	200 CFM	6782	0
Supply Fan Load	767 CFM	0	-	767 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	9369	1437	-	27395	0
Central Cooling Coil	-	9378	1655	-	0	0
Central Heating Coil	-	0	-	-	27414	-
>> Total Conditioning	-	9378	1655	-	27414	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 10:00			DESIGN HEATING		
	OA DB / WB 76.4 F / 68.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	751 sqft	813	-	751 sqft	1910	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	345	-	66 sqft	707	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	95 sqft	813	-	95 sqft	1022	-
Floor Convection	1585 sqft	2652	-	1585 sqft	1374	-
Interior Wall Convection	953 sqft	929	-	953 sqft	511	-
Ceiling Convection	1585 sqft	2547	-	1585 sqft	1768	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	91 CFM	10648	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	1215	0	15%	2691	0
>> Total Zone Loads	-	9314	0	-	20630	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 23 3E 329 et 330 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

DESIGN COOLING DAY AT AUGUST 10:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	76.6	0.01351	200	400	120	1137
Air-to-Air Energy Recovery	Outlet	75.6	0.01351	200	400	228	0
Vent - Return Mixing	Outlet	75.1	0.01262	767	400	-	-
Central Cooling Coil	Outlet	64.1	0.01218	767	400	9378	1655
Central Heating Coil	Outlet	64.1	0.01218	767	400	0	-
Supply Fan	Outlet	64.1	0.01218	767	400	0	-
Cold Supply Duct	Outlet	64.1	0.01218	767	400	-	-
Zone Air	-	75.0	0.01226	767	400	9249	300
Return Air	Outlet	75.0	0.01231	767	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
3E 329 et 330	9247	Cooling	9249	75.0	767	400	0	0

System Psychrometrics for 23 3E 329 et 330 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	200	400	-6782	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	200	400	-12631	0
Vent - Return Mixing	Outlet	61.8	0.00026	767	400	-	-
Central Cooling Coil	Outlet	61.8	0.00026	767	400	0	0
Central Heating Coil	Outlet	94.9	0.00026	767	400	27414	-
Supply Fan	Outlet	94.9	0.00026	767	400	0	-
Cold Supply Duct	Outlet	94.9	0.00026	767	400	-	-
Zone Air	-	70.0	0.00026	767	400	-20613	0
Return Air	Outlet	70.0	0.00026	767	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
3E 329 et 330	-20613	Heating	-20613	70.0	767	400	0	0

Air System Sizing Summary for 24 3E 331 à 338 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **24 3E 331 à 338 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **5285.2** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **5.0** Tons
Total coil load **59.7** MBH
Sensible coil load **47.2** MBH
Coil CFM at peak load **2648** CFM
Sum of peak zone CFM **2648** CFM
Sensible heat ratio **0.791**
CFM/Ton **532.2**
sqft/Ton **1062.2**
BTU/(hr sqft) **11.3**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 15:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **76.2 / 66.6** F
Leaving DB / WB **60.0 / 59.6** F
Resulting RH **59** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **77.5** MBH
Coil CFM at Design Heating **2648** CFM
Max coil CFM **2648** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **14.7**
Ent. DB / Lvg DB **60.5 / 87.6** F

Supply Fan Sizing Data

Design CFM **2648** CFM
Design CFM/sqft **0.50** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **800** CFM
CFM/sqft **0.15** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 24 3E 331 à 338 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **24 3E 331 à 338 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **5285.2** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
3E 331 à 338	2648	2648	0.50	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
3E 331 à 338	48.5	September 15:00	49.3	5285.2

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
3E 331 à 338						
3E 331 à 338	48.5	September 15:00	2648	49.3	5285.2	0.50

Air System Heat Balance Summary for 24 3E 331 à 338 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	43743	1763	-	50312	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	2648 CFM	0	-	2648 CFM	0	-
Ventilation Load	800 CFM	3324	9314	800 CFM	27128	0
Supply Fan Load	2648 CFM	0	-	2648 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	47067	11077	-	77440	0
Central Cooling Coil	-	47245	12465	-	0	0
Central Heating Coil	-	0	-	-	77517	-
>> Total Conditioning	-	47245	12465	-	77517	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	1317 sqft	2557	-	1317 sqft	3110	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	231 sqft	2446	-	231 sqft	2479	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	379 sqft	3979	-	379 sqft	4051	-
Floor Convection	5285 sqft	14235	-	5285 sqft	3944	-
Interior Wall Convection	2664 sqft	3765	-	2664 sqft	1359	-
Ceiling Convection	5285 sqft	13175	-	5285 sqft	5438	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	193 CFM	22496	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	6024	0	15%	6431	0
>> Total Zone Loads	-	46181	0	-	49308	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 24 3E 331 à 338 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

DESIGN COOLING DAY AT AUGUST 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	800	400	3324	9314
Air-to-Air Energy Recovery	Outlet	78.9	0.01352	800	400	6314	0
Vent - Return Mixing	Outlet	76.2	0.01181	2648	400	-	-
Central Cooling Coil	Outlet	60.0	0.01084	2648	400	47245	12465
Central Heating Coil	Outlet	60.0	0.01084	2648	400	0	-
Supply Fan	Outlet	60.0	0.01084	2648	400	0	-
Cold Supply Duct	Outlet	60.0	0.01084	2648	400	-	-
Zone Air	-	75.0	0.01099	2648	400	43743	1763
Return Air	Outlet	75.0	0.01106	2648	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
3E 331 à 338	43729	Cooling	43743	75.0	2648	400	0	0

System Psychrometrics for 24 3E 331 à 338 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	800	400	-27128	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	800	400	-50522	0
Vent - Return Mixing	Outlet	60.5	0.00026	2648	400	-	-
Central Cooling Coil	Outlet	60.5	0.00026	2648	400	0	0
Central Heating Coil	Outlet	87.6	0.00026	2648	400	77517	-
Supply Fan	Outlet	87.6	0.00026	2648	400	0	-
Cold Supply Duct	Outlet	87.6	0.00026	2648	400	-	-
Zone Air	-	70.0	0.00026	2648	400	-50312	0
Return Air	Outlet	70.0	0.00026	2648	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
3E 331 à 338	-50312	Heating	-50312	70.0	2648	400	0	0

Air System Sizing Summary for 25 3E salle commune 357 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **25 3E salle commune 357 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **193.7** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.2** Tons
Total coil load **2.6** MBH
Sensible coil load **2.1** MBH
Coil CFM at peak load **126** CFM
Sum of peak zone CFM **126** CFM
Sensible heat ratio **0.787**
CFM/Ton **573.4**
sqft/Ton **881.4**
BTU/(hr sqft) **13.6**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 10:00**
OA DB / WB **76.4 / 68.9** F
Entering DB / WB **75.2 / 66.3** F
Leaving DB / WB **60.2 / 59.8** F
Resulting RH **59** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **4.6** MBH
Coil CFM at Design Heating **126** CFM
Max coil CFM **126** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **23.8**
Ent. DB / Lvg DB **60.8 / 94.6** F

Supply Fan Sizing Data

Design CFM **126** CFM
Design CFM/sqft **0.65** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **37** CFM
CFM/sqft **0.19** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 25 3E salle commune 357 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:45 PM

Air System Information

Air System Name **25 3E salle commune 357 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **193.7** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
3E salle commune 357	126	126	0.65	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
3E salle commune 357	2.3	September 11:00	3.4	193.7

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
3E salle commune 357						
3E salle commune 357	2.3	September 11:00	126	3.4	193.7	0.65

Air System Heat Balance Summary for 25 3E salle commune 357 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 10:00			DESIGN HEATING		
	OA DB / WB 76.4 F / 68.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	2049	71	-	3353	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	126 CFM	0	-	126 CFM	0	-
Ventilation Load	37 CFM	22	424	37 CFM	1255	0
Supply Fan Load	126 CFM	0	-	126 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	2071	494	-	4607	0
Central Cooling Coil	-	2075	563	-	0	0
Central Heating Coil	-	0	-	-	4611	-
>> Total Conditioning	-	2075	563	-	4611	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 10:00			DESIGN HEATING		
	OA DB / WB 76.4 F / 68.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	118 sqft	186	-	118 sqft	302	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	28 sqft	276	-	28 sqft	299	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	0 sqft	0	-	0 sqft	0	-
Floor Convection	194 sqft	366	-	194 sqft	163	-
Interior Wall Convection	460 sqft	658	-	460 sqft	256	-
Ceiling Convection	194 sqft	450	-	194 sqft	207	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	15 CFM	1696	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	290	0	15%	439	0
>> Total Zone Loads	-	2225	0	-	3363	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 25 3E salle commune 357 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

DESIGN COOLING DAY AT AUGUST 10:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	76.6	0.01351	37	400	22	424
Air-to-Air Energy Recovery	Outlet	75.6	0.01351	37	400	42	0
Vent - Return Mixing	Outlet	75.2	0.01180	126	400	-	-
Central Cooling Coil	Outlet	60.2	0.01089	126	400	2075	563
Central Heating Coil	Outlet	60.2	0.01089	126	400	0	-
Supply Fan	Outlet	60.2	0.01089	126	400	0	-
Cold Supply Duct	Outlet	60.2	0.01089	126	400	-	-
Zone Air	-	75.0	0.01101	126	400	2049	71
Return Air	Outlet	75.0	0.01109	126	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
3E salle commune 357	2048	Cooling	2049	75.0	126	400	0	0

System Psychrometrics for 25 3E salle commune 357 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	37	400	-1255	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	37	400	-2337	0
Vent - Return Mixing	Outlet	60.8	0.00026	126	400	-	-
Central Cooling Coil	Outlet	60.8	0.00026	126	400	0	0
Central Heating Coil	Outlet	94.6	0.00026	126	400	4611	-
Supply Fan	Outlet	94.6	0.00026	126	400	0	-
Cold Supply Duct	Outlet	94.6	0.00026	126	400	-	-
Zone Air	-	70.0	0.00026	126	400	-3353	0
Return Air	Outlet	70.0	0.00026	126	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
3E salle commune 357	-3353	Heating	-3353	70.0	126	400	0	0

Air System Sizing Summary for 26 4E 401 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Air System Information

Air System Name **26 4E 401 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **865.1** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.0** Tons
Total coil load **11.6** MBH
Sensible coil load **9.7** MBH
Coil CFM at peak load **562** CFM
Sum of peak zone CFM **562** CFM
Sensible heat ratio **0.836**
CFM/Ton **579.5**
sqft/Ton **892.6**
BTU/(hr sqft) **13.4**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 15:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **75.7 / 66.1** F
Leaving DB / WB **60.0 / 59.6** F
Resulting RH **59** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **16.4** MBH
Coil CFM at Design Heating **562** CFM
Max coil CFM **562** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **19.0**
Ent. DB / Lvg DB **64.4 / 91.5** F

Supply Fan Sizing Data

Design CFM **562** CFM
Design CFM/sqft **0.65** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.12** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 26 4E 401 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Air System Information

Air System Name **26 4E 401 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **865.1** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 401	562	562	0.65	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 401	10.3	September 15:00	12.9	865.1

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 401						
4E 401	10.3	September 15:00	562	12.9	865.1	0.65

Air System Heat Balance Summary for 26 4E 401 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	9285	424	-	13033	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	562 CFM	0	-	562 CFM	0	-
Ventilation Load	100 CFM	415	1151	100 CFM	3391	0
Supply Fan Load	562 CFM	0	-	562 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	9700	1575	-	16424	0
Central Cooling Coil	-	9722	1909	-	0	0
Central Heating Coil	-	0	-	-	16433	-
>> Total Conditioning	-	9722	1909	-	16433	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	331 sqft	716	-	331 sqft	860	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	719	-	66 sqft	695	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	516	-	47 sqft	498	-
Floor Convection	865 sqft	2157	-	865 sqft	868	-
Interior Wall Convection	1048 sqft	1784	-	1048 sqft	704	-
Ceiling Convection	865 sqft	2886	-	865 sqft	2435	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	44 CFM	5185	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	1317	0	15%	1687	0
>> Total Zone Loads	-	10095	0	-	12932	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 26 4E 401 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

DESIGN COOLING DAY AT AUGUST 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	100	400	415	1151
Air-to-Air Energy Recovery	Outlet	78.9	0.01352	100	400	789	0
Vent - Return Mixing	Outlet	75.7	0.01152	562	400	-	-
Central Cooling Coil	Outlet	60.0	0.01083	562	400	9722	1909
Central Heating Coil	Outlet	60.0	0.01083	562	400	0	-
Supply Fan	Outlet	60.0	0.01083	562	400	0	-
Cold Supply Duct	Outlet	60.0	0.01083	562	400	-	-
Zone Air	-	75.0	0.01099	562	400	9285	424
Return Air	Outlet	75.0	0.01109	562	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 401	9281	Cooling	9285	75.0	562	400	0	0

System Psychrometrics for 26 4E 401 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-3391	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	100	400	-6315	0
Vent - Return Mixing	Outlet	64.4	0.00026	562	400	-	-
Central Cooling Coil	Outlet	64.4	0.00026	562	400	0	0
Central Heating Coil	Outlet	91.5	0.00026	562	400	16433	-
Supply Fan	Outlet	91.5	0.00026	562	400	0	-
Cold Supply Duct	Outlet	91.5	0.00026	562	400	-	-
Zone Air	-	70.0	0.00026	562	400	-13033	0
Return Air	Outlet	70.0	0.00026	562	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 401	-13033	Heating	-13033	70.0	562	400	0	0

Air System Sizing Summary for 27 4E 402 à 404 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Air System Information

Air System Name **27 4E 402 à 404 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **1943.0** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.9** Tons
Total coil load **22.8** MBH
Sensible coil load **17.8** MBH
Coil CFM at peak load **983** CFM
Sum of peak zone CFM **983** CFM
Sensible heat ratio **0.779**
CFM/Ton **516.6**
sqft/Ton **1020.8**
BTU/(hr sqft) **11.8**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 15:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **76.2 / 66.6** F
Leaving DB / WB **59.8 / 59.4** F
Resulting RH **59** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **34.7** MBH
Coil CFM at Design Heating **983** CFM
Max coil CFM **983** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **17.8**
Ent. DB / Lvg DB **60.4 / 93.1** F

Supply Fan Sizing Data

Design CFM **983** CFM
Design CFM/sqft **0.51** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **300** CFM
CFM/sqft **0.15** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 27 4E 402 à 404 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Air System Information

Air System Name **27 4E 402 à 404 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **1943.0** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 402 à 404	983	983	0.51	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 402 à 404	18.0	August 16:00	24.2	1943.0

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 402 à 404						
4E 402 à 404	18.0	August 16:00	983	24.2	1943.0	0.51

Air System Heat Balance Summary for 27 4E 402 à 404 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	16470	953	-	24479	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	983 CFM	0	-	983 CFM	0	-
Ventilation Load	300 CFM	1246	3463	300 CFM	10173	0
Supply Fan Load	983 CFM	0	-	983 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	17716	4416	-	34652	0
Central Cooling Coil	-	17783	5057	-	0	0
Central Heating Coil	-	0	-	-	34681	-
>> Total Conditioning	-	17783	5057	-	34681	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	593 sqft	1054	-	593 sqft	1503	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	116 sqft	1196	-	116 sqft	1234	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	95 sqft	978	-	95 sqft	1017	-
Floor Convection	1943 sqft	5075	-	1943 sqft	1823	-
Interior Wall Convection	1407 sqft	1799	-	1407 sqft	899	-
Ceiling Convection	1943 sqft	5285	-	1943 sqft	5176	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	80 CFM	9364	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	2308	0	15%	3153	0
>> Total Zone Loads	-	17694	0	-	24169	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 27 4E 402 à 404 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT AUGUST 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	300	400	1246	3463
Air-to-Air Energy Recovery	Outlet	78.9	0.01352	300	400	2368	0
Vent - Return Mixing	Outlet	76.2	0.01183	983	400	-	-
Central Cooling Coil	Outlet	59.8	0.01078	983	400	17783	5057
Central Heating Coil	Outlet	59.8	0.01078	983	400	0	-
Supply Fan	Outlet	59.8	0.01078	983	400	0	-
Cold Supply Duct	Outlet	59.8	0.01078	983	400	-	-
Zone Air	-	75.0	0.01098	983	400	16470	953
Return Air	Outlet	75.0	0.01109	983	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 402 à 404	16462	Cooling	16470	75.0	983	400	0	0

System Psychrometrics for 27 4E 402 à 404 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	300	400	-10173	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	300	400	-18946	0
Vent - Return Mixing	Outlet	60.4	0.00026	983	400	-	-
Central Cooling Coil	Outlet	60.4	0.00026	983	400	0	0
Central Heating Coil	Outlet	93.1	0.00026	983	400	34681	-
Supply Fan	Outlet	93.1	0.00026	983	400	0	-
Cold Supply Duct	Outlet	93.1	0.00026	983	400	-	-
Zone Air	-	70.0	0.00026	983	400	-24479	0
Return Air	Outlet	70.0	0.00026	983	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 402 à 404	-24479	Heating	-24479	70.0	983	400	0	0

Air System Sizing Summary for 28 4E 405 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Air System Information

Air System Name **28 4E 405 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **849.7** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.9** Tons
Total coil load **11.3** MBH
Sensible coil load **9.4** MBH
Coil CFM at peak load **544** CFM
Sum of peak zone CFM **544** CFM
Sensible heat ratio **0.836**
CFM/Ton **579.3**
sqft/Ton **905.6**
BTU/(hr sqft) **13.3**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 15:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **75.7 / 66.1** F
Leaving DB / WB **60.0 / 59.6** F
Resulting RH **59** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **15.4** MBH
Coil CFM at Design Heating **544** CFM
Max coil CFM **544** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **18.2**
Ent. DB / Lvg DB **64.2 / 90.5** F

Supply Fan Sizing Data

Design CFM **544** CFM
Design CFM/sqft **0.64** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.12** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 28 4E 405 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Air System Information

Air System Name **28 4E 405 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **849.7** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 405	544	544	0.64	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 405	9.9	September 15:00	11.9	849.7

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 405						
4E 405	9.9	September 15:00	544	11.9	849.7	0.64

Air System Heat Balance Summary for 28 4E 405 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	8976	383	-	12042	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	544 CFM	0	-	544 CFM	0	-
Ventilation Load	100 CFM	415	1158	100 CFM	3391	0
Supply Fan Load	544 CFM	0	-	544 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	9392	1541	-	15433	0
Central Cooling Coil	-	9414	1845	-	0	0
Central Heating Coil	-	0	-	-	15442	-
>> Total Conditioning	-	9414	1845	-	15442	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	279 sqft	561	-	279 sqft	718	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	719	-	66 sqft	700	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	516	-	47 sqft	502	-
Floor Convection	850 sqft	2515	-	850 sqft	835	-
Interior Wall Convection	997 sqft	1527	-	997 sqft	659	-
Ceiling Convection	850 sqft	2653	-	850 sqft	2350	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	39 CFM	4575	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	1274	0	15%	1551	0
>> Total Zone Loads	-	9764	0	-	11890	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 28 4E 405 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

DESIGN COOLING DAY AT AUGUST 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	100	400	415	1158
Air-to-Air Energy Recovery	Outlet	78.9	0.01352	100	400	789	0
Vent - Return Mixing	Outlet	75.7	0.01153	544	400	-	-
Central Cooling Coil	Outlet	60.0	0.01083	544	400	9414	1845
Central Heating Coil	Outlet	60.0	0.01083	544	400	0	-
Supply Fan	Outlet	60.0	0.01083	544	400	0	-
Cold Supply Duct	Outlet	60.0	0.01083	544	400	-	-
Zone Air	-	75.0	0.01098	544	400	8976	383
Return Air	Outlet	75.0	0.01108	544	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 405	8973	Cooling	8976	75.0	544	400	0	0

System Psychrometrics for 28 4E 405 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-3391	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	100	400	-6315	0
Vent - Return Mixing	Outlet	64.2	0.00026	544	400	-	-
Central Cooling Coil	Outlet	64.2	0.00026	544	400	0	0
Central Heating Coil	Outlet	90.5	0.00026	544	400	15442	-
Supply Fan	Outlet	90.5	0.00026	544	400	0	-
Cold Supply Duct	Outlet	90.5	0.00026	544	400	-	-
Zone Air	-	70.0	0.00026	544	400	-12042	0
Return Air	Outlet	70.0	0.00026	544	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 405	-12042	Heating	-12042	70.0	544	400	0	0

Air System Sizing Summary for 29 4E 406 et 407 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Air System Information

Air System Name **29 4E 406 et 407 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **1152.0** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.0** Tons
Total coil load **11.7** MBH
Sensible coil load **8.7** MBH
Coil CFM at peak load **484** CFM
Sum of peak zone CFM **484** CFM
Sensible heat ratio **0.741**
CFM/Ton **495.5**
sqft/Ton **1179.5**
BTU/(hr sqft) **10.2**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 15:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **76.6 / 67.4** F
Leaving DB / WB **60.4 / 60.0** F
Resulting RH **61** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **19.2** MBH
Coil CFM at Design Heating **484** CFM
Max coil CFM **484** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **16.6**
Ent. DB / Lvg DB **57.0 / 93.6** F

Supply Fan Sizing Data

Design CFM **484** CFM
Design CFM/sqft **0.42** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **200** CFM
CFM/sqft **0.17** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 29 4E 406 et 407 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Air System Information

Air System Name **29 4E 406 et 407 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **1152.0** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 406 et 407	484	484	0.42	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 406 et 407	8.9	August 16:00	12.2	1152.0

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 406 et 407						
4E 406 et 407	8.9	August 16:00	484	12.2	1152.0	0.42

Air System Heat Balance Summary for 29 4E 406 et 407 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	7809	662	-	12353	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	484 CFM	0	-	484 CFM	0	-
Ventilation Load	200 CFM	831	2007	200 CFM	6782	0
Supply Fan Load	484 CFM	0	-	484 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	8640	2669	-	19135	0
Central Cooling Coil	-	8682	3038	-	0	0
Central Heating Coil	-	0	-	-	19154	-
>> Total Conditioning	-	8682	3038	-	19154	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	298 sqft	501	-	298 sqft	716	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	0 sqft	0	-	0 sqft	0	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	95 sqft	920	-	95 sqft	1014	-
Floor Convection	1152 sqft	1703	-	1152 sqft	851	-
Interior Wall Convection	1362 sqft	1580	-	1362 sqft	711	-
Ceiling Convection	1152 sqft	2734	-	1152 sqft	2736	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	39 CFM	4584	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	1116	0	15%	1592	0
>> Total Zone Loads	-	8554	0	-	12203	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 29 4E 406 et 407 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

DESIGN COOLING DAY AT AUGUST 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	200	400	831	2007
Air-to-Air Energy Recovery	Outlet	78.9	0.01352	200	400	1579	0
Vent - Return Mixing	Outlet	76.6	0.01228	484	400	-	-
Central Cooling Coil	Outlet	60.4	0.01100	484	400	8682	3038
Central Heating Coil	Outlet	60.4	0.01100	484	400	0	-
Supply Fan	Outlet	60.4	0.01100	484	400	0	-
Cold Supply Duct	Outlet	60.4	0.01100	484	400	-	-
Zone Air	-	75.0	0.01129	484	400	7809	662
Return Air	Outlet	75.0	0.01140	484	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 406 et 407	7805	Cooling	7809	75.0	484	400	0	0

System Psychrometrics for 29 4E 406 et 407 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	200	400	-6782	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	200	400	-12631	0
Vent - Return Mixing	Outlet	57.0	0.00026	484	400	-	-
Central Cooling Coil	Outlet	57.0	0.00026	484	400	0	0
Central Heating Coil	Outlet	93.6	0.00026	484	400	19154	-
Supply Fan	Outlet	93.6	0.00026	484	400	0	-
Cold Supply Duct	Outlet	93.6	0.00026	484	400	-	-
Zone Air	-	70.0	0.00026	484	400	-12353	0
Return Air	Outlet	70.0	0.00026	484	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 406 et 407	-12353	Heating	-12353	70.0	484	400	0	0

Air System Sizing Summary for 30 4E 408 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Air System Information

Air System Name **30 4E 408 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **967.9** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.0** Tons
Total coil load **11.6** MBH
Sensible coil load **9.6** MBH
Coil CFM at peak load **554** CFM
Sum of peak zone CFM **554** CFM
Sensible heat ratio **0.830**
CFM/Ton **573.5**
sqft/Ton **1002.4**
BTU/(hr sqft) **12.0**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 15:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **75.7 / 66.1** F
Leaving DB / WB **59.9 / 59.6** F
Resulting RH **59** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **16.6** MBH
Coil CFM at Design Heating **554** CFM
Max coil CFM **554** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **17.2**
Ent. DB / Lvg DB **64.3 / 92.1** F

Supply Fan Sizing Data

Design CFM **554** CFM
Design CFM/sqft **0.57** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.10** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 30 4E 408 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **30 4E 408 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **967.9** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 408	554	554	0.57	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 408	10.1	August 16:00	13.1	967.9

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 408						
4E 408	10.1	August 16:00	554	13.1	967.9	0.57

Air System Heat Balance Summary for 30 4E 408 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	9180	487	-	13223	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	554 CFM	0	-	554 CFM	0	-
Ventilation Load	100 CFM	415	1143	100 CFM	3391	0
Supply Fan Load	554 CFM	0	-	554 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	9596	1630	-	16614	0
Central Cooling Coil	-	9618	1969	-	0	0
Central Heating Coil	-	0	-	-	16623	-
>> Total Conditioning	-	9618	1969	-	16623	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	325 sqft	615	-	325 sqft	827	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	702	-	66 sqft	704	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	501	-	47 sqft	505	-
Floor Convection	968 sqft	2495	-	968 sqft	913	-
Interior Wall Convection	1044 sqft	1486	-	1044 sqft	671	-
Ceiling Convection	968 sqft	2823	-	968 sqft	2621	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	44 CFM	5119	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	1293	0	15%	1704	0
>> Total Zone Loads	-	9915	0	-	13064	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 30 4E 408 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

DESIGN COOLING DAY AT AUGUST 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	100	400	415	1143
Air-to-Air Energy Recovery	Outlet	78.9	0.01352	100	400	789	0
Vent - Return Mixing	Outlet	75.7	0.01155	554	400	-	-
Central Cooling Coil	Outlet	59.9	0.01082	554	400	9618	1969
Central Heating Coil	Outlet	59.9	0.01082	554	400	0	-
Supply Fan	Outlet	59.9	0.01082	554	400	0	-
Cold Supply Duct	Outlet	59.9	0.01082	554	400	-	-
Zone Air	-	75.0	0.01100	554	400	9180	487
Return Air	Outlet	75.0	0.01111	554	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 408	9177	Cooling	9180	75.0	554	400	0	0

System Psychrometrics for 30 4E 408 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-3391	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	100	400	-6315	0
Vent - Return Mixing	Outlet	64.3	0.00026	554	400	-	-
Central Cooling Coil	Outlet	64.3	0.00026	554	400	0	0
Central Heating Coil	Outlet	92.1	0.00026	554	400	16623	-
Supply Fan	Outlet	92.1	0.00026	554	400	0	-
Cold Supply Duct	Outlet	92.1	0.00026	554	400	-	-
Zone Air	-	70.0	0.00026	554	400	-13223	0
Return Air	Outlet	70.0	0.00026	554	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 408	-13223	Heating	-13223	70.0	554	400	0	0

Air System Sizing Summary for 31 4E 409 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Air System Information

Air System Name **31 4E 409 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **656.2** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.4** Tons
Total coil load **4.8** MBH
Sensible coil load **4.6** MBH
Coil CFM at peak load **535** CFM
Sum of peak zone CFM **535** CFM
Sensible heat ratio **0.959**
CFM/Ton **1328.3**
sqft/Ton **1627.7**
BTU/(hr sqft) **7.4**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 17:00**
OA DB / WB **85.0 / 71.5** F
Entering DB / WB **75.6 / 68.7** F
Leaving DB / WB **67.8 / 66.1** F
Resulting RH **72** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **17.8** MBH
Coil CFM at Design Heating **535** CFM
Max coil CFM **535** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **27.2**
Ent. DB / Lvg DB **64.1 / 94.9** F

Supply Fan Sizing Data

Design CFM **535** CFM
Design CFM/sqft **0.82** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.15** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 31 4E 409 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Air System Information

Air System Name **31 4E 409 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **656.2** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 409	535	535	0.82	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 409	4.3	July 18:00	14.4	656.2

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 409						
4E 409	4.3	July 18:00	535	14.4	656.2	0.82

Air System Heat Balance Summary for 31 4E 409 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 17:00			DESIGN HEATING		
	OA DB / WB 85.0 F / 71.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	4257	84	-	14421	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	535 CFM	0	-	535 CFM	0	-
Ventilation Load	100 CFM	373	44	100 CFM	3391	0
Supply Fan Load	535 CFM	0	-	535 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	4629	127	-	17812	0
Central Cooling Coil	-	4640	198	-	0	0
Central Heating Coil	-	0	-	-	17822	-
>> Total Conditioning	-	4640	198	-	17822	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 17:00			DESIGN HEATING		
	OA DB / WB 85.0 F / 71.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	476 sqft	603	-	476 sqft	1392	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	49 sqft	103	-	49 sqft	574	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	335	-	47 sqft	564	-
Floor Convection	656 sqft	913	-	656 sqft	782	-
Interior Wall Convection	573 sqft	473	-	573 sqft	467	-
Ceiling Convection	656 sqft	1289	-	656 sqft	2065	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	57 CFM	6687	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	557	0	15%	1880	0
>> Total Zone Loads	-	4273	0	-	14411	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 31 4E 409 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

DESIGN COOLING DAY AT JULY 17:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	84.9	0.01353	100	400	373	44
Air-to-Air Energy Recovery	Outlet	78.5	0.01353	100	400	711	0
Vent - Return Mixing	Outlet	75.6	0.01345	535	400	-	-
Central Cooling Coil	Outlet	67.8	0.01338	535	400	4640	198
Central Heating Coil	Outlet	67.8	0.01338	535	400	0	-
Supply Fan	Outlet	67.8	0.01338	535	400	0	-
Cold Supply Duct	Outlet	67.8	0.01338	535	400	-	-
Zone Air	-	75.0	0.01341	535	400	4257	84
Return Air	Outlet	75.0	0.01343	535	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 409	4256	Cooling	4257	75.0	535	400	0	0

System Psychrometrics for 31 4E 409 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-3391	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	100	400	-6315	0
Vent - Return Mixing	Outlet	64.1	0.00026	535	400	-	-
Central Cooling Coil	Outlet	64.1	0.00026	535	400	0	0
Central Heating Coil	Outlet	94.9	0.00026	535	400	17822	-
Supply Fan	Outlet	94.9	0.00026	535	400	0	-
Cold Supply Duct	Outlet	94.9	0.00026	535	400	-	-
Zone Air	-	70.0	0.00026	535	400	-14421	0
Return Air	Outlet	70.0	0.00026	535	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 409	-14421	Heating	-14421	70.0	535	400	0	0

Air System Sizing Summary for 32 4E 410 à 417 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Air System Information

Air System Name **32 4E 410 à 417 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **5190.3** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **2.2** Tons
Total coil load **26.7** MBH
Sensible coil load **22.2** MBH
Coil CFM at peak load **2478** CFM
Sum of peak zone CFM **2478** CFM
Sensible heat ratio **0.829**
CFM/Ton **1112.7**
sqft/Ton **2330.1**
BTU/(hr sqft) **5.2**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 8:00**
OA DB / WB **70.0 / 66.9** F
Entering DB / WB **73.5 / 67.2** F
Leaving DB / WB **65.4 / 64.0** F
Resulting RH **67** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **94.3** MBH
Coil CFM at Design Heating **2478** CFM
Max coil CFM **2478** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **18.2**
Ent. DB / Lvg DB **59.8 / 95.1** F

Supply Fan Sizing Data

Design CFM **2478** CFM
Design CFM/sqft **0.48** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **800** CFM
CFM/sqft **0.15** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 32 4E 410 à 417 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Air System Information

Air System Name **32 4E 410 à 417 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **5190.3** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 410 à 417	2478	2478	0.48	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 410 à 417	26.9	July 8:00	66.7	5190.3

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 410 à 417						
4E 410 à 417	26.9	July 8:00	2478	66.7	5190.3	0.48

Air System Heat Balance Summary for 32 4E 410 à 417 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	26223	559	-	67142	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	2478 CFM	0	-	2478 CFM	0	-
Ventilation Load	800 CFM	-3969	3522	800 CFM	27128	0
Supply Fan Load	2478 CFM	0	-	2478 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	22255	4081	-	94270	0
Central Cooling Coil	-	22160	4570	-	0	0
Central Heating Coil	-	0	-	-	94347	-
>> Total Conditioning	-	22160	4570	-	94347	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	1477 sqft	1361	-	1477 sqft	3840	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	330 sqft	1777	-	330 sqft	3630	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	332 sqft	1893	-	332 sqft	3649	-
Floor Convection	5190 sqft	8389	-	5190 sqft	5462	-
Interior Wall Convection	2744 sqft	2738	-	2744 sqft	1944	-
Ceiling Convection	5190 sqft	7208	-	5190 sqft	14534	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	214 CFM	24941	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	3505	0	15%	8700	0
>> Total Zone Loads	-	26871	0	-	66701	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 32 4E 410 à 417 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

DESIGN COOLING DAY AT JULY 8:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	70.4	0.01350	800	400	-3969	3522
Air-to-Air Energy Recovery	Outlet	70.4	0.01350	800	400	0	0
Vent - Return Mixing	Outlet	73.5	0.01287	2478	400	-	-
Central Cooling Coil	Outlet	65.4	0.01249	2478	400	22160	4570
Central Heating Coil	Outlet	65.4	0.01249	2478	400	0	-
Supply Fan	Outlet	65.4	0.01249	2478	400	0	-
Cold Supply Duct	Outlet	65.4	0.01249	2478	400	-	-
Zone Air	-	75.0	0.01254	2478	400	26223	559
Return Air	Outlet	75.0	0.01257	2478	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 410 à 417	26219	Cooling	26224	75.0	2478	400	0	0

System Psychrometrics for 32 4E 410 à 417 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	800	400	-27128	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	800	400	-50522	0
Vent - Return Mixing	Outlet	59.8	0.00026	2478	400	-	-
Central Cooling Coil	Outlet	59.8	0.00026	2478	400	0	0
Central Heating Coil	Outlet	95.1	0.00026	2478	400	94347	-
Supply Fan	Outlet	95.1	0.00026	2478	400	0	-
Cold Supply Duct	Outlet	95.1	0.00026	2478	400	-	-
Zone Air	-	70.0	0.00026	2478	400	-67142	0
Return Air	Outlet	70.0	0.00026	2478	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 410 à 417	-67142	Heating	-67142	70.0	2478	400	0	0

Air System Sizing Summary for 33 4E 418 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Air System Information

Air System Name **33 4E 418 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **856.5** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.4** Tons
Total coil load **5.0** MBH
Sensible coil load **4.6** MBH
Coil CFM at peak load **608** CFM
Sum of peak zone CFM **608** CFM
Sensible heat ratio **0.931**
CFM/Ton **1465.6**
sqft/Ton **2064.2**
BTU/(hr sqft) **5.8**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 8:00**
OA DB / WB **70.0 / 66.9** F
Entering DB / WB **74.2 / 67.8** F
Leaving DB / WB **67.3 / 65.5** F
Resulting RH **70** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **19.8** MBH
Coil CFM at Design Heating **608** CFM
Max coil CFM **608** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **23.1**
Ent. DB / Lvg DB **64.8 / 94.9** F

Supply Fan Sizing Data

Design CFM **608** CFM
Design CFM/sqft **0.71** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.12** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 33 4E 418 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **33 4E 418 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **856.5** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 418	608	608	0.71	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 418	5.2	July 8:00	16.4	856.5

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 418						
4E 418	5.2	July 8:00	608	16.4	856.5	0.71

Air System Heat Balance Summary for 33 4E 418 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	5145	75	-	16361	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	608 CFM	0	-	608 CFM	0	-
Ventilation Load	100 CFM	-496	193	100 CFM	3391	0
Supply Fan Load	608 CFM	0	-	608 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	4649	268	-	19752	0
Central Cooling Coil	-	4636	343	-	0	0
Central Heating Coil	-	0	-	-	19762	-
>> Total Conditioning	-	4636	343	-	19762	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	482 sqft	522	-	482 sqft	1366	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	83 sqft	415	-	83 sqft	925	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	278	-	47 sqft	529	-
Floor Convection	856 sqft	1249	-	856 sqft	1017	-
Interior Wall Convection	783 sqft	821	-	783 sqft	611	-
Ceiling Convection	856 sqft	1260	-	856 sqft	2648	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	61 CFM	7134	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	682	0	15%	2135	0
>> Total Zone Loads	-	5227	0	-	16365	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 33 4E 418 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

DESIGN COOLING DAY AT JULY 8:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	70.4	0.01350	100	400	-496	193
Air-to-Air Energy Recovery	Outlet	70.4	0.01350	100	400	0	0
Vent - Return Mixing	Outlet	74.2	0.01315	608	400	-	-
Central Cooling Coil	Outlet	67.3	0.01304	608	400	4636	343
Central Heating Coil	Outlet	67.3	0.01304	608	400	0	-
Supply Fan	Outlet	67.3	0.01304	608	400	0	-
Cold Supply Duct	Outlet	67.3	0.01304	608	400	-	-
Zone Air	-	75.0	0.01307	608	400	5145	75
Return Air	Outlet	75.0	0.01309	608	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 418	5144	Cooling	5145	75.0	608	400	0	0

System Psychrometrics for 33 4E 418 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-3391	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	100	400	-6315	0
Vent - Return Mixing	Outlet	64.8	0.00026	608	400	-	-
Central Cooling Coil	Outlet	64.8	0.00026	608	400	0	0
Central Heating Coil	Outlet	94.9	0.00026	608	400	19762	-
Supply Fan	Outlet	94.9	0.00026	608	400	0	-
Cold Supply Duct	Outlet	94.9	0.00026	608	400	-	-
Zone Air	-	70.0	0.00026	608	400	-16361	0
Return Air	Outlet	70.0	0.00026	608	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 418	-16361	Heating	-16361	70.0	608	400	0	0

Air System Sizing Summary for 34 4E 419 et 420 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Air System Information

Air System Name **34 4E 419 et 420 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **1151.4** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.3** Tons
Total coil load **3.7** MBH
Sensible coil load **3.7** MBH
Coil CFM at peak load **454** CFM
Sum of peak zone CFM **454** CFM
Sensible heat ratio **1.000**
CFM/Ton **1455.6**
sqft/Ton **3694.6**
BTU/(hr sqft) **3.2**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 16:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **76.7 / 69.1** F
Leaving DB / WB **69.2 / 66.7** F
Resulting RH **73** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **19.1** MBH
Coil CFM at Design Heating **454** CFM
Max coil CFM **454** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **16.6**
Ent. DB / Lvg DB **56.1 / 95.1** F

Supply Fan Sizing Data

Design CFM **454** CFM
Design CFM/sqft **0.39** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **200** CFM
CFM/sqft **0.17** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 34 4E 419 et 420 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **34 4E 419 et 420 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **1151.4** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 419 et 420	454	454	0.39	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 419 et 420	4.1	July 8:00	12.2	1151.4

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 419 et 420						
4E 419 et 420	4.1	July 8:00	454	12.2	1151.4	0.39

Air System Heat Balance Summary for 34 4E 419 et 420 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

	DESIGN COOLING - JULY 16:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
COMPONENT LOADS	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	2894	-2	-	12301	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	454 CFM	0	-	454 CFM	0	-
Ventilation Load	200 CFM	823	3	200 CFM	6782	0
Supply Fan Load	454 CFM	0	-	454 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	3717	1	-	19082	0
Central Cooling Coil	-	3740	0	-	0	0
Central Heating Coil	-	0	-	-	19102	-
>> Total Conditioning	-	3740	0	-	19102	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

	DESIGN COOLING - JULY 16:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
Zone Heat Balance Component	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	296 sqft	233	-	296 sqft	709	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	0 sqft	0	-	0 sqft	0	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	95 sqft	154	-	95 sqft	1038	-
Floor Convection	1151 sqft	620	-	1151 sqft	854	-
Interior Wall Convection	1371 sqft	551	-	1371 sqft	719	-
Ceiling Convection	1151 sqft	703	-	1151 sqft	2741	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	39 CFM	4554	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	339	0	15%	1592	0
>> Total Zone Loads	-	2600	0	-	12208	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 34 4E 419 et 420 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT JULY 16:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	85.9	0.01352	200	400	823	3
Air-to-Air Energy Recovery	Outlet	78.8	0.01352	200	400	1571	0
Vent - Return Mixing	Outlet	76.7	0.01352	454	400	-	-
Central Cooling Coil	Outlet	69.2	0.01352	454	400	3740	0
Central Heating Coil	Outlet	69.2	0.01352	454	400	0	-
Supply Fan	Outlet	69.2	0.01352	454	400	0	-
Cold Supply Duct	Outlet	69.2	0.01352	454	400	-	-
Zone Air	-	75.0	0.01352	454	400	2894	-2
Return Air	Outlet	75.0	0.01352	454	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 419 et 420	2894	Cooling	2894	75.0	454	400	0	0

System Psychrometrics for 34 4E 419 et 420 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	200	400	-6782	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	200	400	-12631	0
Vent - Return Mixing	Outlet	56.1	0.00026	454	400	-	-
Central Cooling Coil	Outlet	56.1	0.00026	454	400	0	0
Central Heating Coil	Outlet	95.1	0.00026	454	400	19102	-
Supply Fan	Outlet	95.1	0.00026	454	400	0	-
Cold Supply Duct	Outlet	95.1	0.00026	454	400	-	-
Zone Air	-	70.0	0.00026	454	400	-12301	0
Return Air	Outlet	70.0	0.00026	454	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 419 et 420	-12301	Heating	-12301	70.0	454	400	0	0

Air System Sizing Summary for 35 4E 421 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Air System Information

Air System Name **35 4E 421 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **847.3** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.4** Tons
Total coil load **5.3** MBH
Sensible coil load **4.5** MBH
Coil CFM at peak load **443** CFM
Sum of peak zone CFM **443** CFM
Sensible heat ratio **0.850**
CFM/Ton **997.0**
sqft/Ton **1906.7**
BTU/(hr sqft) **6.3**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 8:00**
OA DB / WB **70.0 / 66.9** F
Entering DB / WB **74.0 / 67.1** F
Leaving DB / WB **64.7 / 63.5** F
Resulting RH **66** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **15.4** MBH
Coil CFM at Design Heating **443** CFM
Max coil CFM **443** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **18.2**
Ent. DB / Lvg DB **62.9 / 95.0** F

Supply Fan Sizing Data

Design CFM **443** CFM
Design CFM/sqft **0.52** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.12** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 35 4E 421 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **35 4E 421 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **847.3** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 421	443	443	0.52	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 421	5.3	July 8:00	11.9	847.3

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 421						
4E 421	5.3	July 8:00	443	11.9	847.3	0.52

Air System Heat Balance Summary for 35 4E 421 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	5043	165	-	11979	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	443 CFM	0	-	443 CFM	0	-
Ventilation Load	100 CFM	-496	508	100 CFM	3391	0
Supply Fan Load	443 CFM	0	-	443 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	4547	672	-	15370	0
Central Cooling Coil	-	4535	798	-	0	0
Central Heating Coil	-	0	-	-	15380	-
>> Total Conditioning	-	4535	798	-	15380	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	277 sqft	271	-	277 sqft	713	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	394	-	66 sqft	718	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	278	-	47 sqft	514	-
Floor Convection	847 sqft	1170	-	847 sqft	843	-
Interior Wall Convection	997 sqft	1203	-	997 sqft	669	-
Ceiling Convection	847 sqft	1295	-	847 sqft	2357	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	39 CFM	4554	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	692	0	15%	1555	0
>> Total Zone Loads	-	5303	0	-	11923	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 35 4E 421 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT JULY 8:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	70.4	0.01350	100	400	-496	508
Air-to-Air Energy Recovery	Outlet	70.4	0.01350	100	400	0	0
Vent - Return Mixing	Outlet	74.0	0.01266	443	400	-	-
Central Cooling Coil	Outlet	64.7	0.01230	443	400	4535	798
Central Heating Coil	Outlet	64.7	0.01230	443	400	0	-
Supply Fan	Outlet	64.7	0.01230	443	400	0	-
Cold Supply Duct	Outlet	64.7	0.01230	443	400	-	-
Zone Air	-	75.0	0.01238	443	400	5043	165
Return Air	Outlet	75.0	0.01242	443	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 421	5041	Cooling	5043	75.0	443	400	0	0

System Psychrometrics for 35 4E 421 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-3391	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	100	400	-6315	0
Vent - Return Mixing	Outlet	62.9	0.00026	443	400	-	-
Central Cooling Coil	Outlet	62.9	0.00026	443	400	0	0
Central Heating Coil	Outlet	95.0	0.00026	443	400	15380	-
Supply Fan	Outlet	95.0	0.00026	443	400	0	-
Cold Supply Duct	Outlet	95.0	0.00026	443	400	-	-
Zone Air	-	70.0	0.00026	443	400	-11979	0
Return Air	Outlet	70.0	0.00026	443	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 421	-11979	Heating	-11979	70.0	443	400	0	0

Air System Sizing Summary for 36 4E 422 à 426 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Air System Information

Air System Name **36 4E 422 à 426 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **3261.7** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.4** Tons
Total coil load **16.7** MBH
Sensible coil load **13.9** MBH
Coil CFM at peak load **1547** CFM
Sum of peak zone CFM **1547** CFM
Sensible heat ratio **0.829**
CFM/Ton **1109.5**
sqft/Ton **2339.3**
BTU/(hr sqft) **5.1**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 8:00**
OA DB / WB **70.0 / 66.9** F
Entering DB / WB **73.5 / 67.2** F
Leaving DB / WB **65.4 / 64.0** F
Resulting RH **67** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **58.9** MBH
Coil CFM at Design Heating **1547** CFM
Max coil CFM **1547** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **18.1**
Ent. DB / Lvg DB **59.8 / 95.1** F

Supply Fan Sizing Data

Design CFM **1547** CFM
Design CFM/sqft **0.47** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **500** CFM
CFM/sqft **0.15** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 36 4E 422 à 426 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Air System Information

Air System Name **36 4E 422 à 426 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **3261.7** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 422 à 426	1547	1547	0.47	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 422 à 426	16.9	July 8:00	41.6	3261.7

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 422 à 426						
4E 422 à 426	16.9	July 8:00	1547	41.6	3261.7	0.47

Air System Heat Balance Summary for 36 4E 422 à 426 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	16413	327	-	41900	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	1547 CFM	0	-	1547 CFM	0	-
Ventilation Load	500 CFM	-2481	2235	500 CFM	16955	0
Supply Fan Load	1547 CFM	0	-	1547 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	13932	2562	-	58855	0
Central Cooling Coil	-	13874	2858	-	0	0
Central Heating Coil	-	0	-	-	58903	-
>> Total Conditioning	-	13874	2858	-	58903	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	940 sqft	761	-	940 sqft	2429	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	165 sqft	959	-	165 sqft	1812	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	237 sqft	1355	-	237 sqft	2608	-
Floor Convection	3262 sqft	5770	-	3262 sqft	3337	-
Interior Wall Convection	1948 sqft	1755	-	1948 sqft	1345	-
Ceiling Convection	3262 sqft	4109	-	3262 sqft	9022	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	134 CFM	15650	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	2206	0	15%	5430	0
>> Total Zone Loads	-	16916	0	-	41631	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 36 4E 422 à 426 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

DESIGN COOLING DAY AT JULY 8:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	70.4	0.01350	500	400	-2481	2235
Air-to-Air Energy Recovery	Outlet	70.4	0.01350	500	400	0	0
Vent - Return Mixing	Outlet	73.5	0.01286	1547	400	-	-
Central Cooling Coil	Outlet	65.4	0.01248	1547	400	13874	2858
Central Heating Coil	Outlet	65.4	0.01248	1547	400	0	-
Supply Fan	Outlet	65.4	0.01248	1547	400	0	-
Cold Supply Duct	Outlet	65.4	0.01248	1547	400	-	-
Zone Air	-	75.0	0.01252	1547	400	16413	327
Return Air	Outlet	75.0	0.01255	1547	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 422 à 426	16410	Cooling	16413	75.0	1547	400	0	0

System Psychrometrics for 36 4E 422 à 426 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	500	400	-16955	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	500	400	-31576	0
Vent - Return Mixing	Outlet	59.8	0.00026	1547	400	-	-
Central Cooling Coil	Outlet	59.8	0.00026	1547	400	0	0
Central Heating Coil	Outlet	95.1	0.00026	1547	400	58903	-
Supply Fan	Outlet	95.1	0.00026	1547	400	0	-
Cold Supply Duct	Outlet	95.1	0.00026	1547	400	-	-
Zone Air	-	70.0	0.00026	1547	400	-41900	0
Return Air	Outlet	70.0	0.00026	1547	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 422 à 426	-41900	Heating	-41900	70.0	1547	400	0	0

Air System Sizing Summary for 37 4E 427 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Air System Information

Air System Name **37 4E 427 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **575.1** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.2** Tons
Total coil load **1.9** MBH
Sensible coil load **1.6** MBH
Coil CFM at peak load **230** CFM
Sum of peak zone CFM **230** CFM
Sensible heat ratio **0.805**
CFM/Ton **1421.5**
sqft/Ton **3551.3**
BTU/(hr sqft) **3.4**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 8:00**
OA DB / WB **70.0 / 66.9** F
Entering DB / WB **73.0 / 67.6** F
Leaving DB / WB **66.8 / 65.1** F
Resulting RH **70** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **9.6** MBH
Coil CFM at Design Heating **230** CFM
Max coil CFM **230** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **16.8**
Ent. DB / Lvg DB **56.3 / 95.1** F

Supply Fan Sizing Data

Design CFM **230** CFM
Design CFM/sqft **0.40** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.17** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 37 4E 427 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **37 4E 427 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **575.1** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 427	230	230	0.40	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 427	2.2	July 8:00	6.2	575.1

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 427						
4E 427	2.2	July 8:00	230	6.2	575.1	0.40

Air System Heat Balance Summary for 37 4E 427 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	2074	100	-	6237	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	230 CFM	0	-	230 CFM	0	-
Ventilation Load	100 CFM	-496	223	100 CFM	3391	0
Supply Fan Load	230 CFM	0	-	230 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	1578	324	-	9628	0
Central Cooling Coil	-	1565	378	-	0	0
Central Heating Coil	-	0	-	-	9638	-
>> Total Conditioning	-	1565	378	-	9638	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	149 sqft	81	-	149 sqft	352	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	0 sqft	0	-	0 sqft	0	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	245	-	47 sqft	517	-
Floor Convection	575 sqft	461	-	575 sqft	396	-
Interior Wall Convection	984 sqft	698	-	984 sqft	486	-
Ceiling Convection	575 sqft	415	-	575 sqft	1342	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	20 CFM	2294	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	285	0	15%	808	0
>> Total Zone Loads	-	2185	0	-	6195	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 37 4E 427 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT JULY 8:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	70.4	0.01350	100	400	-496	223
Air-to-Air Energy Recovery	Outlet	70.4	0.01350	100	400	0	0
Vent - Return Mixing	Outlet	73.0	0.01323	230	400	-	-
Central Cooling Coil	Outlet	66.8	0.01289	230	400	1565	378
Central Heating Coil	Outlet	66.8	0.01289	230	400	0	-
Supply Fan	Outlet	66.8	0.01289	230	400	0	-
Cold Supply Duct	Outlet	66.8	0.01289	230	400	-	-
Zone Air	-	75.0	0.01299	230	400	2074	100
Return Air	Outlet	75.0	0.01302	230	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 427	2073	Cooling	2074	75.0	230	400	0	0

System Psychrometrics for 37 4E 427 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-3391	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	100	400	-6315	0
Vent - Return Mixing	Outlet	56.3	0.00026	230	400	-	-
Central Cooling Coil	Outlet	56.3	0.00026	230	400	0	0
Central Heating Coil	Outlet	95.1	0.00026	230	400	9638	-
Supply Fan	Outlet	95.1	0.00026	230	400	0	-
Cold Supply Duct	Outlet	95.1	0.00026	230	400	-	-
Zone Air	-	70.0	0.00026	230	400	-6237	0
Return Air	Outlet	70.0	0.00026	230	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 427	-6237	Heating	-6237	70.0	230	400	0	0

Air System Sizing Summary for 38 4E 428 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Air System Information

Air System Name **38 4E 428 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **852.5** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.4** Tons
Total coil load **4.8** MBH
Sensible coil load **4.5** MBH
Coil CFM at peak load **649** CFM
Sum of peak zone CFM **649** CFM
Sensible heat ratio **0.950**
CFM/Ton **1626.1**
sqft/Ton **2136.9**
BTU/(hr sqft) **5.6**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 8:00**
OA DB / WB **70.0 / 66.9** F
Entering DB / WB **74.3 / 68.0** F
Leaving DB / WB **67.9 / 65.9** F
Resulting RH **71** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **20.9** MBH
Coil CFM at Design Heating **649** CFM
Max coil CFM **649** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **24.5**
Ent. DB / Lvg DB **65.1 / 94.9** F

Supply Fan Sizing Data

Design CFM **649** CFM
Design CFM/sqft **0.76** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.12** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 38 4E 428 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **38 4E 428 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **852.5** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 428	649	649	0.76	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 428	5.1	July 8:00	17.5	852.5

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 428						
4E 428	5.1	July 8:00	649	17.5	852.5	0.76

Air System Heat Balance Summary for 38 4E 428 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	5056	54	-	17453	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	649 CFM	0	-	649 CFM	0	-
Ventilation Load	100 CFM	-496	129	100 CFM	3391	0
Supply Fan Load	649 CFM	0	-	649 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	4560	183	-	20844	0
Central Cooling Coil	-	4547	240	-	0	0
Central Heating Coil	-	0	-	-	20853	-
>> Total Conditioning	-	4547	240	-	20853	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	580 sqft	484	-	580 sqft	1663	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	391	-	66 sqft	747	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	275	-	47 sqft	535	-
Floor Convection	852 sqft	1416	-	852 sqft	986	-
Interior Wall Convection	694 sqft	738	-	694 sqft	529	-
Ceiling Convection	852 sqft	1116	-	852 sqft	2628	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	69 CFM	8092	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	663	0	15%	2277	0
>> Total Zone Loads	-	5082	0	-	17458	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 38 4E 428 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

DESIGN COOLING DAY AT JULY 8:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	70.4	0.01350	100	400	-496	129
Air-to-Air Energy Recovery	Outlet	70.4	0.01350	100	400	0	0
Vent - Return Mixing	Outlet	74.3	0.01326	649	400	-	-
Central Cooling Coil	Outlet	67.9	0.01319	649	400	4547	240
Central Heating Coil	Outlet	67.9	0.01319	649	400	0	-
Supply Fan	Outlet	67.9	0.01319	649	400	0	-
Cold Supply Duct	Outlet	67.9	0.01319	649	400	-	-
Zone Air	-	75.0	0.01321	649	400	5056	54
Return Air	Outlet	75.0	0.01322	649	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 428	5055	Cooling	5056	75.0	649	400	0	0

System Psychrometrics for 38 4E 428 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-3391	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	100	400	-6315	0
Vent - Return Mixing	Outlet	65.1	0.00026	649	400	-	-
Central Cooling Coil	Outlet	65.1	0.00026	649	400	0	0
Central Heating Coil	Outlet	94.9	0.00026	649	400	20853	-
Supply Fan	Outlet	94.9	0.00026	649	400	0	-
Cold Supply Duct	Outlet	94.9	0.00026	649	400	-	-
Zone Air	-	70.0	0.00026	649	400	-17453	0
Return Air	Outlet	70.0	0.00026	649	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 428	-17453	Heating	-17453	70.0	649	400	0	0

Air System Sizing Summary for 39 4E 429 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Air System Information

Air System Name **39 4E 429 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **591.4** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.3** Tons
Total coil load **4.1** MBH
Sensible coil load **3.3** MBH
Coil CFM at peak load **239** CFM
Sum of peak zone CFM **239** CFM
Sensible heat ratio **0.802**
CFM/Ton **693.1**
sqft/Ton **1716.4**
BTU/(hr sqft) **7.0**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 11:00**
OA DB / WB **79.4 / 69.8** F
Entering DB / WB **75.7 / 67.5** F
Leaving DB / WB **63.1 / 62.3** F
Resulting RH **64** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **9.9** MBH
Coil CFM at Design Heating **239** CFM
Max coil CFM **239** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **16.7**
Ent. DB / Lvg DB **56.8 / 95.2** F

Supply Fan Sizing Data

Design CFM **239** CFM
Design CFM/sqft **0.40** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.17** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 39 4E 429 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Air System Information

Air System Name **39 4E 429 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **591.4** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 429	239	239	0.40	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 429	3.4	August 11:00	6.4	591.4

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 429						
4E 429	3.4	August 11:00	239	6.4	591.4	0.40

Air System Heat Balance Summary for 39 4E 429 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 11:00			DESIGN HEATING		
	OA DB / WB 79.4 F / 69.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	3134	20	-	6484	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	239 CFM	0	-	239 CFM	0	-
Ventilation Load	100 CFM	172	757	100 CFM	3391	0
Supply Fan Load	239 CFM	0	-	239 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	3306	777	-	9875	0
Central Cooling Coil	-	3316	819	-	0	0
Central Heating Coil	-	0	-	-	9885	-
>> Total Conditioning	-	3316	819	-	9885	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 11:00			DESIGN HEATING		
	OA DB / WB 79.4 F / 69.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	161 sqft	226	-	161 sqft	380	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	0 sqft	0	-	0 sqft	0	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	380	-	47 sqft	515	-
Floor Convection	591 sqft	671	-	591 sqft	408	-
Interior Wall Convection	982 sqft	921	-	982 sqft	474	-
Ceiling Convection	591 sqft	802	-	591 sqft	1382	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	21 CFM	2429	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	450	0	15%	838	0
>> Total Zone Loads	-	3448	0	-	6427	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 39 4E 429 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

DESIGN COOLING DAY AT AUGUST 11:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	79.6	0.01351	100	400	172	757
Air-to-Air Energy Recovery	Outlet	76.6	0.01351	100	400	327	0
Vent - Return Mixing	Outlet	75.7	0.01258	239	400	-	-
Central Cooling Coil	Outlet	63.1	0.01188	239	400	3316	819
Central Heating Coil	Outlet	63.1	0.01188	239	400	0	-
Supply Fan	Outlet	63.1	0.01188	239	400	0	-
Cold Supply Duct	Outlet	63.1	0.01188	239	400	-	-
Zone Air	-	75.0	0.01190	239	400	3134	20
Return Air	Outlet	75.0	0.01191	239	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 429	3134	Cooling	3134	75.0	239	400	0	0

System Psychrometrics for 39 4E 429 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-3391	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	100	400	-6315	0
Vent - Return Mixing	Outlet	56.8	0.00026	239	400	-	-
Central Cooling Coil	Outlet	56.8	0.00026	239	400	0	0
Central Heating Coil	Outlet	95.2	0.00026	239	400	9885	-
Supply Fan	Outlet	95.2	0.00026	239	400	0	-
Cold Supply Duct	Outlet	95.2	0.00026	239	400	-	-
Zone Air	-	70.0	0.00026	239	400	-6484	0
Return Air	Outlet	70.0	0.00026	239	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 429	-6484	Heating	-6484	70.0	239	400	0	0

Air System Sizing Summary for 40 4E 430 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Air System Information

Air System Name **40 4E 430 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **993.5** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.5** Tons
Total coil load **6.4** MBH
Sensible coil load **6.3** MBH
Coil CFM at peak load **730** CFM
Sum of peak zone CFM **730** CFM
Sensible heat ratio **0.981**
CFM/Ton **1359.3**
sqft/Ton **1850.1**
BTU/(hr sqft) **6.5**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 16:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **75.5 / 68.5** F
Leaving DB / WB **67.7 / 66.0** F
Resulting RH **71** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **23.0** MBH
Coil CFM at Design Heating **730** CFM
Max coil CFM **730** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **23.2**
Ent. DB / Lvg DB **65.7 / 94.9** F

Supply Fan Sizing Data

Design CFM **730** CFM
Design CFM/sqft **0.73** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.10** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 40 4E 430 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Air System Information

Air System Name **40 4E 430 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **993.5** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 430	730	730	0.73	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 430	5.9	August 12:00	19.6	993.5

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 430						
4E 430	5.9	August 12:00	730	19.6	993.5	0.73

Air System Heat Balance Summary for 40 4E 430 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Table 1. System Loads

	DESIGN COOLING - AUGUST 16:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
COMPONENT LOADS	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	5897	9	-	19633	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	730 CFM	0	-	730 CFM	0	-
Ventilation Load	100 CFM	412	101	100 CFM	3391	0
Supply Fan Load	730 CFM	0	-	730 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	6308	109	-	23024	0
Central Cooling Coil	-	6320	124	-	0	0
Central Heating Coil	-	0	-	-	23034	-
>> Total Conditioning	-	6320	124	-	23034	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

	DESIGN COOLING - AUGUST 16:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
Zone Heat Balance Component	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	680 sqft	1123	-	680 sqft	1929	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	364	-	66 sqft	735	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	100	-	47 sqft	532	-
Floor Convection	994 sqft	1222	-	994 sqft	1120	-
Interior Wall Convection	667 sqft	555	-	667 sqft	495	-
Ceiling Convection	994 sqft	1740	-	994 sqft	3016	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	79 CFM	9256	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	765	0	15%	2562	0
>> Total Zone Loads	-	5869	0	-	19645	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 40 4E 430 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

DESIGN COOLING DAY AT AUGUST 16:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	85.9	0.01352	100	400	412	101
Air-to-Air Energy Recovery	Outlet	78.8	0.01352	100	400	785	0
Vent - Return Mixing	Outlet	75.5	0.01334	730	400	-	-
Central Cooling Coil	Outlet	67.7	0.01331	730	400	6320	124
Central Heating Coil	Outlet	67.7	0.01331	730	400	0	-
Supply Fan	Outlet	67.7	0.01331	730	400	0	-
Cold Supply Duct	Outlet	67.7	0.01331	730	400	-	-
Zone Air	-	75.0	0.01331	730	400	5897	9
Return Air	Outlet	75.0	0.01331	730	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 430	5896	Cooling	5897	75.0	730	400	0	0

System Psychrometrics for 40 4E 430 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-3391	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	100	400	-6315	0
Vent - Return Mixing	Outlet	65.7	0.00026	730	400	-	-
Central Cooling Coil	Outlet	65.7	0.00026	730	400	0	0
Central Heating Coil	Outlet	94.9	0.00026	730	400	23034	-
Supply Fan	Outlet	94.9	0.00026	730	400	0	-
Cold Supply Duct	Outlet	94.9	0.00026	730	400	-	-
Zone Air	-	70.0	0.00026	730	400	-19633	0
Return Air	Outlet	70.0	0.00026	730	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 430	-19633	Heating	-19633	70.0	730	400	0	0

Air System Sizing Summary for 41 4E 431 à 435 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Air System Information

Air System Name **41 4E 431 à 435 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **3285.9** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **3.5** Tons
Total coil load **41.7** MBH
Sensible coil load **33.1** MBH
Coil CFM at peak load **1829** CFM
Sum of peak zone CFM **1829** CFM
Sensible heat ratio **0.794**
CFM/Ton **526.1**
sqft/Ton **945.1**
BTU/(hr sqft) **12.7**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 15:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **76.1 / 66.4** F
Leaving DB / WB **59.6 / 59.3** F
Resulting RH **59** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **59.2** MBH
Coil CFM at Design Heating **1829** CFM
Max coil CFM **1829** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **18.0**
Ent. DB / Lvg DB **61.4 / 91.4** F

Supply Fan Sizing Data

Design CFM **1829** CFM
Design CFM/sqft **0.56** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **500** CFM
CFM/sqft **0.15** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 41 4E 431 à 435 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **41 4E 431 à 435 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **3285.9** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 431 à 435	1829	1829	0.56	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 431 à 435	33.5	August 16:00	41.5	3285.9

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 431 à 435						
4E 431 à 435	33.5	August 16:00	1829	41.5	3285.9	0.56

Air System Heat Balance Summary for 41 4E 431 à 435 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:46 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	30939	1479	-	42233	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	1829 CFM	0	-	1829 CFM	0	-
Ventilation Load	500 CFM	2077	6014	500 CFM	16955	0
Supply Fan Load	1829 CFM	0	-	1829 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	33017	7494	-	59188	0
Central Cooling Coil	-	33131	8592	-	0	0
Central Heating Coil	-	0	-	-	59236	-
>> Total Conditioning	-	33131	8592	-	59236	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	941 sqft	1833	-	941 sqft	2426	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	165 sqft	1759	-	165 sqft	1771	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	237 sqft	2516	-	237 sqft	2543	-
Floor Convection	3286 sqft	9879	-	3286 sqft	3310	-
Interior Wall Convection	1953 sqft	2808	-	1953 sqft	1339	-
Ceiling Convection	3286 sqft	10046	-	3286 sqft	9020	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	134 CFM	15665	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	4326	0	15%	5411	0
>> Total Zone Loads	-	33167	0	-	41485	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 41 4E 431 à 435 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT AUGUST 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	500	400	2077	6014
Air-to-Air Energy Recovery	Outlet	78.9	0.01352	500	400	3946	0
Vent - Return Mixing	Outlet	76.1	0.01168	1829	400	-	-
Central Cooling Coil	Outlet	59.6	0.01072	1829	400	33131	8592
Central Heating Coil	Outlet	59.6	0.01072	1829	400	0	-
Supply Fan	Outlet	59.6	0.01072	1829	400	0	-
Cold Supply Duct	Outlet	59.6	0.01072	1829	400	-	-
Zone Air	-	75.0	0.01089	1829	400	30939	1479
Return Air	Outlet	75.0	0.01098	1829	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 431 à 435	30928	Cooling	30940	75.0	1829	400	0	0

System Psychrometrics for 41 4E 431 à 435 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	500	400	-16955	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	500	400	-31576	0
Vent - Return Mixing	Outlet	61.4	0.00026	1829	400	-	-
Central Cooling Coil	Outlet	61.4	0.00026	1829	400	0	0
Central Heating Coil	Outlet	91.4	0.00026	1829	400	59236	-
Supply Fan	Outlet	91.4	0.00026	1829	400	0	-
Cold Supply Duct	Outlet	91.4	0.00026	1829	400	-	-
Zone Air	-	70.0	0.00026	1829	400	-42233	0
Return Air	Outlet	70.0	0.00026	1829	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 431 à 435	-42233	Heating	-42233	70.0	1829	400	0	0

Air System Sizing Summary for 42 4E 436 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

Air System Information

Air System Name **42 4E 436 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **856.0** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.9** Tons
Total coil load **11.3** MBH
Sensible coil load **9.4** MBH
Coil CFM at peak load **546** CFM
Sum of peak zone CFM **546** CFM
Sensible heat ratio **0.836**
CFM/Ton **579.2**
sqft/Ton **908.5**
BTU/(hr sqft) **13.2**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 15:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **75.7 / 66.1** F
Leaving DB / WB **60.0 / 59.6** F
Resulting RH **59** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **15.4** MBH
Coil CFM at Design Heating **546** CFM
Max coil CFM **546** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **18.0**
Ent. DB / Lvg DB **64.2 / 90.4** F

Supply Fan Sizing Data

Design CFM **546** CFM
Design CFM/sqft **0.64** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.12** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 42 4E 436 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

Air System Information

Air System Name **42 4E 436 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **856.0** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 436	546	546	0.64	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 436	10.0	September 15:00	11.9	856.0

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 436						
4E 436	10.0	September 15:00	546	11.9	856.0	0.64

Air System Heat Balance Summary for 42 4E 436 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	9012	393	-	12031	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	546 CFM	0	-	546 CFM	0	-
Ventilation Load	100 CFM	415	1156	100 CFM	3391	0
Supply Fan Load	546 CFM	0	-	546 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	9428	1548	-	15422	0
Central Cooling Coil	-	9450	1857	-	0	0
Central Heating Coil	-	0	-	-	15432	-
>> Total Conditioning	-	9450	1857	-	15432	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	277 sqft	562	-	277 sqft	711	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	722	-	66 sqft	704	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	513	-	47 sqft	501	-
Floor Convection	856 sqft	2469	-	856 sqft	836	-
Interior Wall Convection	1001 sqft	1554	-	1001 sqft	662	-
Ceiling Convection	856 sqft	2701	-	856 sqft	2359	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	39 CFM	4554	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	1278	0	15%	1549	0
>> Total Zone Loads	-	9800	0	-	11876	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 42 4E 436 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT AUGUST 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	100	400	415	1156
Air-to-Air Energy Recovery	Outlet	78.9	0.01352	100	400	789	0
Vent - Return Mixing	Outlet	75.7	0.01153	546	400	-	-
Central Cooling Coil	Outlet	60.0	0.01083	546	400	9450	1857
Central Heating Coil	Outlet	60.0	0.01083	546	400	0	-
Supply Fan	Outlet	60.0	0.01083	546	400	0	-
Cold Supply Duct	Outlet	60.0	0.01083	546	400	-	-
Zone Air	-	75.0	0.01099	546	400	9012	393
Return Air	Outlet	75.0	0.01108	546	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 436	9009	Cooling	9012	75.0	546	400	0	0

System Psychrometrics for 42 4E 436 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-3391	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	100	400	-6315	0
Vent - Return Mixing	Outlet	64.2	0.00026	546	400	-	-
Central Cooling Coil	Outlet	64.2	0.00026	546	400	0	0
Central Heating Coil	Outlet	90.4	0.00026	546	400	15432	-
Supply Fan	Outlet	90.4	0.00026	546	400	0	-
Cold Supply Duct	Outlet	90.4	0.00026	546	400	-	-
Zone Air	-	70.0	0.00026	546	400	-12031	0
Return Air	Outlet	70.0	0.00026	546	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 436	-12031	Heating	-12031	70.0	546	400	0	0

Air System Sizing Summary for 43 4E 437 et 438 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

Air System Information

Air System Name **43 4E 437 et 438 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **1143.4** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.0** Tons
Total coil load **11.7** MBH
Sensible coil load **8.6** MBH
Coil CFM at peak load **484** CFM
Sum of peak zone CFM **484** CFM
Sensible heat ratio **0.741**
CFM/Ton **498.0**
sqft/Ton **1177.6**
BTU/(hr sqft) **10.2**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 15:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **76.6 / 67.4** F
Leaving DB / WB **60.4 / 60.1** F
Resulting RH **61** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **19.0** MBH
Coil CFM at Design Heating **484** CFM
Max coil CFM **484** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **16.6**
Ent. DB / Lvg DB **57.0 / 93.3** F

Supply Fan Sizing Data

Design CFM **484** CFM
Design CFM/sqft **0.42** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **200** CFM
CFM/sqft **0.17** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 43 4E 437 et 438 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

Air System Information

Air System Name **43 4E 437 et 438 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **1143.4** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 437 et 438	484	484	0.42	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 437 et 438	8.8	August 16:00	12.0	1143.4

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 437 et 438						
4E 437 et 438	8.8	August 16:00	484	12.0	1143.4	0.42

Air System Heat Balance Summary for 43 4E 437 et 438 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	7766	660	-	12175	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	484 CFM	0	-	484 CFM	0	-
Ventilation Load	200 CFM	831	1984	200 CFM	6782	0
Supply Fan Load	484 CFM	0	-	484 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	8597	2644	-	18957	0
Central Cooling Coil	-	8638	3013	-	0	0
Central Heating Coil	-	0	-	-	18976	-
>> Total Conditioning	-	8638	3013	-	18976	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	289 sqft	483	-	289 sqft	690	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	0 sqft	0	-	0 sqft	0	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	95 sqft	917	-	95 sqft	1011	-
Floor Convection	1143 sqft	1689	-	1143 sqft	837	-
Interior Wall Convection	1378 sqft	1603	-	1378 sqft	718	-
Ceiling Convection	1143 sqft	2713	-	1143 sqft	2703	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	38 CFM	4469	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	1111	0	15%	1564	0
>> Total Zone Loads	-	8514	0	-	11993	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 43 4E 437 et 438 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT AUGUST 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	200	400	831	1984
Air-to-Air Energy Recovery	Outlet	78.9	0.01352	200	400	1579	0
Vent - Return Mixing	Outlet	76.6	0.01230	484	400	-	-
Central Cooling Coil	Outlet	60.4	0.01102	484	400	8638	3013
Central Heating Coil	Outlet	60.4	0.01102	484	400	0	-
Supply Fan	Outlet	60.4	0.01102	484	400	0	-
Cold Supply Duct	Outlet	60.4	0.01102	484	400	-	-
Zone Air	-	75.0	0.01131	484	400	7766	660
Return Air	Outlet	75.0	0.01143	484	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 437 et 438	7762	Cooling	7766	75.0	484	400	0	0

System Psychrometrics for 43 4E 437 et 438 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	200	400	-6782	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	200	400	-12631	0
Vent - Return Mixing	Outlet	57.0	0.00026	484	400	-	-
Central Cooling Coil	Outlet	57.0	0.00026	484	400	0	0
Central Heating Coil	Outlet	93.3	0.00026	484	400	18976	-
Supply Fan	Outlet	93.3	0.00026	484	400	0	-
Cold Supply Duct	Outlet	93.3	0.00026	484	400	-	-
Zone Air	-	70.0	0.00026	484	400	-12175	0
Return Air	Outlet	70.0	0.00026	484	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 437 et 438	-12175	Heating	-12175	70.0	484	400	0	0

Air System Sizing Summary for 44 4E salle commune 457 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **44 4E salle commune 457 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **193.7** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.2** Tons
Total coil load **2.4** MBH
Sensible coil load **2.0** MBH
Coil CFM at peak load **152** CFM
Sum of peak zone CFM **152** CFM
Sensible heat ratio **0.835**
CFM/Ton **753.5**
sqft/Ton **958.0**
BTU/(hr sqft) **12.5**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 10:00**
OA DB / WB **76.4 / 68.9** F
Entering DB / WB **75.1 / 67.1** F
Leaving DB / WB **63.1 / 62.3** F
Resulting RH **64** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **5.4** MBH
Coil CFM at Design Heating **152** CFM
Max coil CFM **152** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **27.7**
Ent. DB / Lvg DB **62.4 / 94.9** F

Supply Fan Sizing Data

Design CFM **152** CFM
Design CFM/sqft **0.79** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **37** CFM
CFM/sqft **0.19** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 44 4E salle commune 457 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **44 4E salle commune 457 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **193.7** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E salle commune 457	152	152	0.79	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E salle commune 457	2.2	August 11:00	4.1	193.7

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E salle commune 457						
4E salle commune 457	2.2	August 11:00	152	4.1	193.7	0.79

Air System Heat Balance Summary for 44 4E salle commune 457 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 10:00			DESIGN HEATING		
	OA DB / WB 76.4 F / 68.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	2001	75	-	4104	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	152 CFM	0	-	152 CFM	0	-
Ventilation Load	37 CFM	22	255	37 CFM	1255	0
Supply Fan Load	152 CFM	0	-	152 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	2023	330	-	5358	0
Central Cooling Coil	-	2025	401	-	0	0
Central Heating Coil	-	0	-	-	5362	-
>> Total Conditioning	-	2025	401	-	5362	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 10:00			DESIGN HEATING		
	OA DB / WB 76.4 F / 68.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	132 sqft	198	-	132 sqft	352	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	28 sqft	265	-	28 sqft	308	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	0 sqft	0	-	0 sqft	0	-
Floor Convection	194 sqft	352	-	194 sqft	177	-
Interior Wall Convection	505 sqft	680	-	505 sqft	315	-
Ceiling Convection	194 sqft	400	-	194 sqft	552	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	16 CFM	1861	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	284	0	15%	535	0
>> Total Zone Loads	-	2180	0	-	4100	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 44 4E salle commune 457 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT AUGUST 10:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	76.6	0.01351	37	400	22	255
Air-to-Air Energy Recovery	Outlet	75.6	0.01351	37	400	42	0
Vent - Return Mixing	Outlet	75.1	0.01241	152	400	-	-
Central Cooling Coil	Outlet	63.1	0.01187	152	400	2025	401
Central Heating Coil	Outlet	63.1	0.01187	152	400	0	-
Supply Fan	Outlet	63.1	0.01187	152	400	0	-
Cold Supply Duct	Outlet	63.1	0.01187	152	400	-	-
Zone Air	-	75.0	0.01198	152	400	2001	75
Return Air	Outlet	75.0	0.01206	152	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E salle commune 457	2001	Cooling	2001	75.0	152	400	0	0

System Psychrometrics for 44 4E salle commune 457 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	37	400	-1255	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	37	400	-2337	0
Vent - Return Mixing	Outlet	62.4	0.00026	152	400	-	-
Central Cooling Coil	Outlet	62.4	0.00026	152	400	0	0
Central Heating Coil	Outlet	94.9	0.00026	152	400	5362	-
Supply Fan	Outlet	94.9	0.00026	152	400	0	-
Cold Supply Duct	Outlet	94.9	0.00026	152	400	-	-
Zone Air	-	70.0	0.00026	152	400	-4104	0
Return Air	Outlet	70.0	0.00026	152	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E salle commune 457	-4104	Heating	-4104	70.0	152	400	0	0

Air System Sizing Summary for 45 RDC 101 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **45 RDC 101 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **845.6** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.9** Tons
Total coil load **10.4** MBH
Sensible coil load **8.7** MBH
Coil CFM at peak load **525** CFM
Sum of peak zone CFM **525** CFM
Sensible heat ratio **0.838**
CFM/Ton **603.5**
sqft/Ton **972.2**
BTU/(hr sqft) **12.3**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 15:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **75.7 / 66.3** F
Leaving DB / WB **60.6 / 60.2** F
Resulting RH **60** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **14.7** MBH
Coil CFM at Design Heating **525** CFM
Max coil CFM **525** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **17.4**
Ent. DB / Lvg DB **64.0 / 90.0** F

Supply Fan Sizing Data

Design CFM **525** CFM
Design CFM/sqft **0.62** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.12** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 45 RDC 101 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **45 RDC 101 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **845.6** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC 101	525	525	0.62	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC 101	9.6	September 15:00	11.2	845.6

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC 101						
RDC 101	9.6	September 15:00	525	11.2	845.6	0.62

Air System Heat Balance Summary for 45 RDC 101 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	8313	341	-	11348	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	525 CFM	0	-	525 CFM	0	-
Ventilation Load	100 CFM	415	1060	100 CFM	3391	0
Supply Fan Load	525 CFM	0	-	525 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	8729	1401	-	14739	0
Central Cooling Coil	-	8750	1687	-	0	0
Central Heating Coil	-	0	-	-	14748	-
>> Total Conditioning	-	8750	1687	-	14748	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	240 sqft	499	-	240 sqft	592	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	721	-	66 sqft	682	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	518	-	47 sqft	489	-
Floor Convection	846 sqft	2449	-	846 sqft	2445	-
Interior Wall Convection	905 sqft	1411	-	905 sqft	475	-
Ceiling Convection	846 sqft	2226	-	846 sqft	922	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	35 CFM	4123	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	1174	0	15%	1459	0
>> Total Zone Loads	-	8998	0	-	11187	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 45 RDC 101 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

DESIGN COOLING DAY AT AUGUST 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	100	400	415	1060
Air-to-Air Energy Recovery	Outlet	78.9	0.01352	100	400	790	0
Vent - Return Mixing	Outlet	75.7	0.01171	525	400	-	-
Central Cooling Coil	Outlet	60.6	0.01105	525	400	8750	1687
Central Heating Coil	Outlet	60.6	0.01105	525	400	0	-
Supply Fan	Outlet	60.6	0.01105	525	400	0	-
Cold Supply Duct	Outlet	60.6	0.01105	525	400	-	-
Zone Air	-	75.0	0.01119	525	400	8313	341
Return Air	Outlet	75.0	0.01128	525	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 101	8311	Cooling	8313	75.0	525	400	0	0

System Psychrometrics for 45 RDC 101 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-3391	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	100	400	-6315	0
Vent - Return Mixing	Outlet	64.0	0.00026	525	400	-	-
Central Cooling Coil	Outlet	64.0	0.00026	525	400	0	0
Central Heating Coil	Outlet	90.0	0.00026	525	400	14748	-
Supply Fan	Outlet	90.0	0.00026	525	400	0	-
Cold Supply Duct	Outlet	90.0	0.00026	525	400	-	-
Zone Air	-	70.0	0.00026	525	400	-11348	0
Return Air	Outlet	70.0	0.00026	525	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 101	-11348	Heating	-11348	70.0	525	400	0	0

Air System Sizing Summary for 46 RDC 102 et 103 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

Air System Information

Air System Name **46 RDC 102 et 103 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **1151.2** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.9** Tons
Total coil load **10.6** MBH
Sensible coil load **7.8** MBH
Coil CFM at peak load **441** CFM
Sum of peak zone CFM **441** CFM
Sensible heat ratio **0.737**
CFM/Ton **500.8**
sqft/Ton **1308.1**
BTU/(hr sqft) **9.2**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 15:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **76.8 / 67.7** F
Leaving DB / WB **60.8 / 60.4** F
Resulting RH **61** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **18.1** MBH
Coil CFM at Design Heating **441** CFM
Max coil CFM **441** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **15.8**
Ent. DB / Lvg DB **55.7 / 93.8** F

Supply Fan Sizing Data

Design CFM **441** CFM
Design CFM/sqft **0.38** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **200** CFM
CFM/sqft **0.17** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 46 RDC 102 et 103 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

Air System Information

Air System Name **46 RDC 102 et 103 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **1151.2** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC 102 et 103	441	441	0.38	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC 102 et 103	8.1	September 15:00	11.2	1151.2

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC 102 et 103						
RDC 102 et 103	8.1	September 15:00	441	11.2	1151.2	0.38

Air System Heat Balance Summary for 46 RDC 102 et 103 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	6913	568	-	11345	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	441 CFM	0	-	441 CFM	0	-
Ventilation Load	200 CFM	831	1886	200 CFM	6782	0
Supply Fan Load	441 CFM	0	-	441 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	7744	2454	-	18127	0
Central Cooling Coil	-	7784	2777	-	0	0
Central Heating Coil	-	0	-	-	18146	-
>> Total Conditioning	-	7784	2777	-	18146	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	263 sqft	435	-	263 sqft	592	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	0 sqft	0	-	0 sqft	0	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	95 sqft	913	-	95 sqft	985	-
Floor Convection	1151 sqft	1636	-	1151 sqft	2615	-
Interior Wall Convection	1245 sqft	1406	-	1245 sqft	464	-
Ceiling Convection	1151 sqft	2120	-	1151 sqft	950	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	36 CFM	4170	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	976	0	15%	1466	0
>> Total Zone Loads	-	7486	0	-	11242	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 46 RDC 102 et 103 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

DESIGN COOLING DAY AT AUGUST 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	200	400	831	1886
Air-to-Air Energy Recovery	Outlet	78.9	0.01352	200	400	1580	0
Vent - Return Mixing	Outlet	76.8	0.01244	441	400	-	-
Central Cooling Coil	Outlet	60.8	0.01115	441	400	7784	2777
Central Heating Coil	Outlet	60.8	0.01115	441	400	0	-
Supply Fan	Outlet	60.8	0.01115	441	400	0	-
Cold Supply Duct	Outlet	60.8	0.01115	441	400	-	-
Zone Air	-	75.0	0.01142	441	400	6913	568
Return Air	Outlet	75.0	0.01153	441	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 102 et 103	6909	Cooling	6913	75.0	441	400	0	0

System Psychrometrics for 46 RDC 102 et 103 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	200	400	-6782	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	200	400	-12631	0
Vent - Return Mixing	Outlet	55.7	0.00026	441	400	-	-
Central Cooling Coil	Outlet	55.7	0.00026	441	400	0	0
Central Heating Coil	Outlet	93.8	0.00026	441	400	18146	-
Supply Fan	Outlet	93.8	0.00026	441	400	0	-
Cold Supply Duct	Outlet	93.8	0.00026	441	400	-	-
Zone Air	-	70.0	0.00026	441	400	-11345	0
Return Air	Outlet	70.0	0.00026	441	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 102 et 103	-11345	Heating	-11345	70.0	441	400	0	0

Air System Sizing Summary for 47 RDC 104 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

Air System Information

Air System Name **47 RDC 104 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **972.9** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.9** Tons
Total coil load **10.8** MBH
Sensible coil load **9.0** MBH
Coil CFM at peak load **541** CFM
Sum of peak zone CFM **541** CFM
Sensible heat ratio **0.834**
CFM/Ton **602.2**
sqft/Ton **1082.7**
BTU/(hr sqft) **11.1**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 15:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **75.7 / 66.4** F
Leaving DB / WB **60.6 / 60.2** F
Resulting RH **60** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **16.0** MBH
Coil CFM at Design Heating **541** CFM
Max coil CFM **541** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **16.4**
Ent. DB / Lvg DB **64.2 / 91.5** F

Supply Fan Sizing Data

Design CFM **541** CFM
Design CFM/sqft **0.56** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.10** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 47 RDC 104 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

Air System Information

Air System Name **47 RDC 104 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **972.9** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC 104	541	541	0.56	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC 104	9.9	September 15:00	12.5	972.9

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC 104						
RDC 104	9.9	September 15:00	541	12.5	972.9	0.56

Air System Heat Balance Summary for 47 RDC 104 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	8557	436	-	12563	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	541 CFM	0	-	541 CFM	0	-
Ventilation Load	100 CFM	415	1033	100 CFM	3391	0
Supply Fan Load	541 CFM	0	-	541 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	8973	1470	-	15954	0
Central Cooling Coil	-	8994	1790	-	0	0
Central Heating Coil	-	0	-	-	15963	-
>> Total Conditioning	-	8994	1790	-	15963	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	290 sqft	552	-	290 sqft	704	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	705	-	66 sqft	686	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	503	-	47 sqft	491	-
Floor Convection	973 sqft	2556	-	973 sqft	2753	-
Interior Wall Convection	954 sqft	1378	-	954 sqft	483	-
Ceiling Convection	973 sqft	2314	-	973 sqft	1015	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	40 CFM	4703	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	1201	0	15%	1626	0
>> Total Zone Loads	-	9209	0	-	12462	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 47 RDC 104 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

DESIGN COOLING DAY AT AUGUST 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	100	400	415	1033
Air-to-Air Energy Recovery	Outlet	78.9	0.01352	100	400	790	0
Vent - Return Mixing	Outlet	75.7	0.01174	541	400	-	-
Central Cooling Coil	Outlet	60.6	0.01107	541	400	8994	1790
Central Heating Coil	Outlet	60.6	0.01107	541	400	0	-
Supply Fan	Outlet	60.6	0.01107	541	400	0	-
Cold Supply Duct	Outlet	60.6	0.01107	541	400	-	-
Zone Air	-	75.0	0.01124	541	400	8557	436
Return Air	Outlet	75.0	0.01134	541	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 104	8554	Cooling	8558	75.0	541	400	0	0

System Psychrometrics for 47 RDC 104 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-3391	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	100	400	-6315	0
Vent - Return Mixing	Outlet	64.2	0.00026	541	400	-	-
Central Cooling Coil	Outlet	64.2	0.00026	541	400	0	0
Central Heating Coil	Outlet	91.5	0.00026	541	400	15963	-
Supply Fan	Outlet	91.5	0.00026	541	400	0	-
Cold Supply Duct	Outlet	91.5	0.00026	541	400	-	-
Zone Air	-	70.0	0.00026	541	400	-12563	0
Return Air	Outlet	70.0	0.00026	541	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 104	-12563	Heating	-12563	70.0	541	400	0	0

Air System Sizing Summary for 48 RDC 105 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

Air System Information

Air System Name **48 RDC 105 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **661.3** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.3** Tons
Total coil load **3.9** MBH
Sensible coil load **3.9** MBH
Coil CFM at peak load **526** CFM
Sum of peak zone CFM **526** CFM
Sensible heat ratio **1.000**
CFM/Ton **1614.9**
sqft/Ton **2030.2**
BTU/(hr sqft) **5.9**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 17:00**
OA DB / WB **85.0 / 71.5** F
Entering DB / WB **75.7 / 68.8** F
Leaving DB / WB **68.9 / 66.7** F
Resulting RH **73** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **17.6** MBH
Coil CFM at Design Heating **526** CFM
Max coil CFM **526** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **26.6**
Ent. DB / Lvg DB **64.0 / 95.0** F

Supply Fan Sizing Data

Design CFM **526** CFM
Design CFM/sqft **0.80** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.15** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 48 RDC 105 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

Air System Information

Air System Name **48 RDC 105 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **661.3** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC 105	526	526	0.80	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC 105	3.6	July 18:00	14.2	661.3

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC 105						
RDC 105	3.6	July 18:00	526	14.2	661.3	0.80

Air System Heat Balance Summary for 48 RDC 105 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

Table 1. System Loads

	DESIGN COOLING - JULY 17:00			DESIGN HEATING		
	OA DB / WB 85.0 F / 71.5 F			OA DB / WB -20.0 F / -20.0 F		
COMPONENT LOADS	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	3526	0	-	14205	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	526 CFM	0	-	526 CFM	0	-
Ventilation Load	100 CFM	373	1	100 CFM	3391	0
Supply Fan Load	526 CFM	0	-	526 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	3898	0	-	17596	0
Central Cooling Coil	-	3909	0	-	0	0
Central Heating Coil	-	0	-	-	17605	-
>> Total Conditioning	-	3909	0	-	17605	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

	DESIGN COOLING - JULY 17:00			DESIGN HEATING		
	OA DB / WB 85.0 F / 71.5 F			OA DB / WB -20.0 F / -20.0 F		
Zone Heat Balance Component	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	427 sqft	523	-	427 sqft	1212	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	49 sqft	97	-	49 sqft	571	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	327	-	47 sqft	559	-
Floor Convection	661 sqft	859	-	661 sqft	2633	-
Interior Wall Convection	524 sqft	399	-	524 sqft	357	-
Ceiling Convection	661 sqft	820	-	661 sqft	869	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	52 CFM	6109	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	454	0	15%	1846	0
>> Total Zone Loads	-	3479	0	-	14156	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 48 RDC 105 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

DESIGN COOLING DAY AT JULY 17:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	84.9	0.01353	100	400	373	1
Air-to-Air Energy Recovery	Outlet	78.5	0.01353	100	400	711	0
Vent - Return Mixing	Outlet	75.7	0.01352	526	400	-	-
Central Cooling Coil	Outlet	68.9	0.01352	526	400	3909	0
Central Heating Coil	Outlet	68.9	0.01352	526	400	0	-
Supply Fan	Outlet	68.9	0.01352	526	400	0	-
Cold Supply Duct	Outlet	68.9	0.01352	526	400	-	-
Zone Air	-	75.0	0.01352	526	400	3526	0
Return Air	Outlet	75.0	0.01352	526	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 105	3526	Cooling	3526	75.0	526	400	0	0

System Psychrometrics for 48 RDC 105 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-3391	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	100	400	-6315	0
Vent - Return Mixing	Outlet	64.0	0.00026	526	400	-	-
Central Cooling Coil	Outlet	64.0	0.00026	526	400	0	0
Central Heating Coil	Outlet	95.0	0.00026	526	400	17605	-
Supply Fan	Outlet	95.0	0.00026	526	400	0	-
Cold Supply Duct	Outlet	95.0	0.00026	526	400	-	-
Zone Air	-	70.0	0.00026	526	400	-14205	0
Return Air	Outlet	70.0	0.00026	526	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 105	-14205	Heating	-14205	70.0	526	400	0	0

Air System Sizing Summary for 49 RDC 106 à 109 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

Air System Information

Air System Name **49 RDC 106 à 109 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **2602.0** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.3** Tons
Total coil load **15.1** MBH
Sensible coil load **12.0** MBH
Coil CFM at peak load **1171** CFM
Sum of peak zone CFM **1171** CFM
Sensible heat ratio **0.791**
CFM/Ton **928.2**
sqft/Ton **2062.0**
BTU/(hr sqft) **5.8**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 8:00**
OA DB / WB **70.0 / 66.9** F
Entering DB / WB **73.4 / 67.0** F
Leaving DB / WB **64.2 / 63.1** F
Resulting RH **66** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **45.3** MBH
Coil CFM at Design Heating **1171** CFM
Max coil CFM **1171** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **17.4**
Ent. DB / Lvg DB **59.2 / 95.1** F

Supply Fan Sizing Data

Design CFM **1171** CFM
Design CFM/sqft **0.45** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **400** CFM
CFM/sqft **0.15** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 49 RDC 106 à 109 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

Air System Information

Air System Name **49 RDC 106 à 109 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **2602.0** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC 106 à 109	1171	1171	0.45	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC 106 à 109	15.0	June 8:00	31.5	2602.0

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC 106 à 109						
RDC 106 à 109	15.0	June 8:00	1171	31.5	2602.0	0.45

Air System Heat Balance Summary for 49 RDC 106 à 109 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	14003	486	-	31708	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	1171 CFM	0	-	1171 CFM	0	-
Ventilation Load	400 CFM	-1984	2306	400 CFM	13564	0
Supply Fan Load	1171 CFM	0	-	1171 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	12018	2792	-	45271	0
Central Cooling Coil	-	11975	3168	-	0	0
Central Heating Coil	-	0	-	-	45310	-
>> Total Conditioning	-	11975	3168	-	45310	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	654 sqft	558	-	654 sqft	1606	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	132 sqft	797	-	132 sqft	1406	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	190 sqft	1128	-	190 sqft	2018	-
Floor Convection	2602 sqft	4802	-	2602 sqft	7264	-
Interior Wall Convection	1527 sqft	1439	-	1527 sqft	822	-
Ceiling Convection	2602 sqft	4049	-	2602 sqft	2911	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	98 CFM	11381	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	1916	0	15%	4111	0
>> Total Zone Loads	-	14688	0	-	31520	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 49 RDC 106 à 109 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT JULY 8:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	70.4	0.01350	400	400	-1984	2306
Air-to-Air Energy Recovery	Outlet	70.4	0.01350	400	400	0	0
Vent - Return Mixing	Outlet	73.4	0.01269	1171	400	-	-
Central Cooling Coil	Outlet	64.2	0.01214	1171	400	11975	3168
Central Heating Coil	Outlet	64.2	0.01214	1171	400	0	-
Supply Fan	Outlet	64.2	0.01214	1171	400	0	-
Cold Supply Duct	Outlet	64.2	0.01214	1171	400	-	-
Zone Air	-	75.0	0.01223	1171	400	14003	486
Return Air	Outlet	75.0	0.01228	1171	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 106 à 109	13999	Cooling	14003	75.0	1171	400	0	0

System Psychrometrics for 49 RDC 106 à 109 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	400	400	-13564	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	400	400	-25261	0
Vent - Return Mixing	Outlet	59.2	0.00026	1171	400	-	-
Central Cooling Coil	Outlet	59.2	0.00026	1171	400	0	0
Central Heating Coil	Outlet	95.1	0.00026	1171	400	45310	-
Supply Fan	Outlet	95.1	0.00026	1171	400	0	-
Cold Supply Duct	Outlet	95.1	0.00026	1171	400	-	-
Zone Air	-	70.0	0.00026	1171	400	-31708	0
Return Air	Outlet	70.0	0.00026	1171	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 106 à 109	-31708	Heating	-31708	70.0	1171	400	0	0

Air System Sizing Summary for 50 RDC 110 et 111 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

Air System Information

Air System Name **50 RDC 110 et 111 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **1151.3** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.4** Tons
Total coil load **4.3** MBH
Sensible coil load **3.3** MBH
Coil CFM at peak load **417** CFM
Sum of peak zone CFM **417** CFM
Sensible heat ratio **0.759**
CFM/Ton **1163.1**
sqft/Ton **3212.8**
BTU/(hr sqft) **3.7**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 8:00**
OA DB / WB **70.0 / 66.9** F
Entering DB / WB **72.8 / 67.3** F
Leaving DB / WB **65.7 / 64.3** F
Resulting RH **68** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **18.1** MBH
Coil CFM at Design Heating **417** CFM
Max coil CFM **417** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **15.7**
Ent. DB / Lvg DB **54.9 / 95.1** F

Supply Fan Sizing Data

Design CFM **417** CFM
Design CFM/sqft **0.36** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **200** CFM
CFM/sqft **0.17** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 50 RDC 110 et 111 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

Air System Information

Air System Name **50 RDC 110 et 111 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **1151.3** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC 110 et 111	417	417	0.36	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC 110 et 111	4.4	June 8:00	11.2	1151.3

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC 110 et 111						
RDC 110 et 111	4.4	June 8:00	417	11.2	1151.3	0.36

Air System Heat Balance Summary for 50 RDC 110 et 111 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	4280	221	-	11276	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	417 CFM	0	-	417 CFM	0	-
Ventilation Load	200 CFM	-992	688	200 CFM	6782	0
Supply Fan Load	417 CFM	0	-	417 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	3288	909	-	18058	0
Central Cooling Coil	-	3263	1037	-	0	0
Central Heating Coil	-	0	-	-	18077	-
>> Total Conditioning	-	3263	1037	-	18077	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	259 sqft	169	-	259 sqft	583	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	0 sqft	0	-	0 sqft	0	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	95 sqft	504	-	95 sqft	1005	-
Floor Convection	1151 sqft	995	-	1151 sqft	2608	-
Interior Wall Convection	1256 sqft	915	-	1256 sqft	475	-
Ceiling Convection	1151 sqft	1142	-	1151 sqft	954	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	35 CFM	4128	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	559	0	15%	1463	0
>> Total Zone Loads	-	4283	0	-	11217	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 50 RDC 110 et 111 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT JULY 8:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	70.4	0.01350	200	400	-992	688
Air-to-Air Energy Recovery	Outlet	70.4	0.01350	200	400	0	0
Vent - Return Mixing	Outlet	72.8	0.01312	417	400	-	-
Central Cooling Coil	Outlet	65.7	0.01261	417	400	3263	1037
Central Heating Coil	Outlet	65.7	0.01261	417	400	0	-
Supply Fan	Outlet	65.7	0.01261	417	400	0	-
Cold Supply Duct	Outlet	65.7	0.01261	417	400	-	-
Zone Air	-	75.0	0.01272	417	400	4280	221
Return Air	Outlet	75.0	0.01277	417	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 110 et 111	4278	Cooling	4280	75.0	417	400	0	0

System Psychrometrics for 50 RDC 110 et 111 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	200	400	-6782	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	200	400	-12631	0
Vent - Return Mixing	Outlet	54.9	0.00026	417	400	-	-
Central Cooling Coil	Outlet	54.9	0.00026	417	400	0	0
Central Heating Coil	Outlet	95.1	0.00026	417	400	18077	-
Supply Fan	Outlet	95.1	0.00026	417	400	0	-
Cold Supply Duct	Outlet	95.1	0.00026	417	400	-	-
Zone Air	-	70.0	0.00026	417	400	-11276	0
Return Air	Outlet	70.0	0.00026	417	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 110 et 111	-11276	Heating	-11276	70.0	417	400	0	0

Air System Sizing Summary for 51 RDC 112 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

Air System Information

Air System Name **51 RDC 112 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **839.5** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.5** Tons
Total coil load **5.8** MBH
Sensible coil load **4.8** MBH
Coil CFM at peak load **417** CFM
Sum of peak zone CFM **417** CFM
Sensible heat ratio **0.827**
CFM/Ton **863.9**
sqft/Ton **1740.6**
BTU/(hr sqft) **6.9**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 8:00**
OA DB / WB **70.0 / 66.9** F
Entering DB / WB **73.9 / 66.7** F
Leaving DB / WB **63.5 / 62.5** F
Resulting RH **65** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **14.6** MBH
Coil CFM at Design Heating **417** CFM
Max coil CFM **417** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **17.4**
Ent. DB / Lvg DB **62.4 / 95.0** F

Supply Fan Sizing Data

Design CFM **417** CFM
Design CFM/sqft **0.50** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.12** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 51 RDC 112 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

Air System Information

Air System Name **51 RDC 112 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **839.5** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC 112	417	417	0.50	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC 112	5.7	June 8:00	11.2	839.5

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC 112						
RDC 112	5.7	June 8:00	417	11.2	839.5	0.50

Air System Heat Balance Summary for 51 RDC 112 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	5293	180	-	11247	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	417 CFM	0	-	417 CFM	0	-
Ventilation Load	100 CFM	-496	675	100 CFM	3391	0
Supply Fan Load	417 CFM	0	-	417 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	4797	856	-	14638	0
Central Cooling Coil	-	4787	1001	-	0	0
Central Heating Coil	-	0	-	-	14647	-
>> Total Conditioning	-	4787	1001	-	14647	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	239 sqft	248	-	239 sqft	590	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	409	-	66 sqft	698	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	290	-	47 sqft	499	-
Floor Convection	839 sqft	1200	-	839 sqft	2445	-
Interior Wall Convection	904 sqft	1166	-	904 sqft	486	-
Ceiling Convection	839 sqft	1555	-	839 sqft	929	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	35 CFM	4104	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	730	0	15%	1463	0
>> Total Zone Loads	-	5600	0	-	11213	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 51 RDC 112 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT JULY 8:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	70.4	0.01350	100	400	-496	675
Air-to-Air Energy Recovery	Outlet	70.4	0.01350	100	400	0	0
Vent - Return Mixing	Outlet	73.9	0.01241	417	400	-	-
Central Cooling Coil	Outlet	63.5	0.01192	417	400	4787	1001
Central Heating Coil	Outlet	63.5	0.01192	417	400	0	-
Supply Fan	Outlet	63.5	0.01192	417	400	0	-
Cold Supply Duct	Outlet	63.5	0.01192	417	400	-	-
Zone Air	-	75.0	0.01201	417	400	5293	180
Return Air	Outlet	75.0	0.01207	417	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 112	5291	Cooling	5293	75.0	417	400	0	0

System Psychrometrics for 51 RDC 112 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-3391	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	100	400	-6315	0
Vent - Return Mixing	Outlet	62.4	0.00026	417	400	-	-
Central Cooling Coil	Outlet	62.4	0.00026	417	400	0	0
Central Heating Coil	Outlet	95.0	0.00026	417	400	14647	-
Supply Fan	Outlet	95.0	0.00026	417	400	0	-
Cold Supply Duct	Outlet	95.0	0.00026	417	400	-	-
Zone Air	-	70.0	0.00026	417	400	-11247	0
Return Air	Outlet	70.0	0.00026	417	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 112	-11247	Heating	-11247	70.0	417	400	0	0

Air System Sizing Summary for 52 RDC 113 à 117 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

Air System Information

Air System Name **52 RDC 113 à 117 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **3265.4** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.6** Tons
Total coil load **19.2** MBH
Sensible coil load **15.1** MBH
Coil CFM at peak load **1465** CFM
Sum of peak zone CFM **1465** CFM
Sensible heat ratio **0.790**
CFM/Ton **917.3**
sqft/Ton **2044.4**
BTU/(hr sqft) **5.9**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 8:00**
OA DB / WB **70.0 / 66.9** F
Entering DB / WB **73.4 / 66.9** F
Leaving DB / WB **64.1 / 63.0** F
Resulting RH **66** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **56.6** MBH
Coil CFM at Design Heating **1465** CFM
Max coil CFM **1465** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **17.3**
Ent. DB / Lvg DB **59.3 / 95.0** F

Supply Fan Sizing Data

Design CFM **1465** CFM
Design CFM/sqft **0.45** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **500** CFM
CFM/sqft **0.15** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 52 RDC 113 à 117 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

Air System Information

Air System Name **52 RDC 113 à 117 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **3265.4** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC 113 à 117	1465	1465	0.45	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC 113 à 117	18.7	June 8:00	39.4	3265.4

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC 113 à 117						
RDC 113 à 117	18.7	June 8:00	1465	39.4	3265.4	0.45

Air System Heat Balance Summary for 52 RDC 113 à 117 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	17670	606	-	39592	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	1465 CFM	0	-	1465 CFM	0	-
Ventilation Load	500 CFM	-2480	2954	500 CFM	16955	0
Supply Fan Load	1465 CFM	0	-	1465 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	15189	3560	-	56547	0
Central Cooling Coil	-	15135	4031	-	0	0
Central Heating Coil	-	0	-	-	56595	-
>> Total Conditioning	-	15135	4031	-	56595	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	821 sqft	702	-	821 sqft	2016	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	165 sqft	993	-	165 sqft	1757	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	237 sqft	1407	-	237 sqft	2526	-
Floor Convection	3265 sqft	6032	-	3265 sqft	9124	-
Interior Wall Convection	1775 sqft	1669	-	1775 sqft	937	-
Ceiling Convection	3265 sqft	5079	-	3265 sqft	3665	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	122 CFM	14264	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	2382	0	15%	5143	0
>> Total Zone Loads	-	18263	0	-	39432	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 52 RDC 113 à 117 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

DESIGN COOLING DAY AT JULY 8:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	70.4	0.01350	500	400	-2480	2954
Air-to-Air Energy Recovery	Outlet	70.4	0.01350	500	400	0	0
Vent - Return Mixing	Outlet	73.4	0.01267	1465	400	-	-
Central Cooling Coil	Outlet	64.1	0.01211	1465	400	15135	4031
Central Heating Coil	Outlet	64.1	0.01211	1465	400	0	-
Supply Fan	Outlet	64.1	0.01211	1465	400	0	-
Cold Supply Duct	Outlet	64.1	0.01211	1465	400	-	-
Zone Air	-	75.0	0.01220	1465	400	17670	606
Return Air	Outlet	75.0	0.01225	1465	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 113 à 117	17666	Cooling	17670	75.0	1465	400	0	0

System Psychrometrics for 52 RDC 113 à 117 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	500	400	-16955	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	500	400	-31576	0
Vent - Return Mixing	Outlet	59.3	0.00026	1465	400	-	-
Central Cooling Coil	Outlet	59.3	0.00026	1465	400	0	0
Central Heating Coil	Outlet	95.0	0.00026	1465	400	56595	-
Supply Fan	Outlet	95.0	0.00026	1465	400	0	-
Cold Supply Duct	Outlet	95.0	0.00026	1465	400	-	-
Zone Air	-	70.0	0.00026	1465	400	-39592	0
Return Air	Outlet	70.0	0.00026	1465	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 113 à 117	-39592	Heating	-39592	70.0	1465	400	0	0

Air System Sizing Summary for 53 RDC 118 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

Air System Information

Air System Name **53 RDC 118 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **573.0** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.2** Tons
Total coil load **2.2** MBH
Sensible coil load **1.7** MBH
Coil CFM at peak load **208** CFM
Sum of peak zone CFM **208** CFM
Sensible heat ratio **0.754**
CFM/Ton **1140.7**
sqft/Ton **3142.6**
BTU/(hr sqft) **3.8**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 8:00**
OA DB / WB **70.0 / 66.9** F
Entering DB / WB **72.8 / 67.3** F
Leaving DB / WB **65.6 / 64.2** F
Resulting RH **68** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **9.0** MBH
Coil CFM at Design Heating **208** CFM
Max coil CFM **208** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **15.8**
Ent. DB / Lvg DB **54.9 / 95.1** F

Supply Fan Sizing Data

Design CFM **208** CFM
Design CFM/sqft **0.36** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.17** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 53 RDC 118 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:47 PM

Air System Information

Air System Name **53 RDC 118 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **573.0** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC 118	208	208	0.36	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC 118	2.3	June 8:00	5.6	573.0

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC 118						
RDC 118	2.3	June 8:00	208	5.6	573.0	0.36

Air System Heat Balance Summary for 53 RDC 118 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:48 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	2158	124	-	5626	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	208 CFM	0	-	208 CFM	0	-
Ventilation Load	100 CFM	-496	345	100 CFM	3391	0
Supply Fan Load	208 CFM	0	-	208 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	1662	469	-	9017	0
Central Cooling Coil	-	1650	538	-	0	0
Central Heating Coil	-	0	-	-	9027	-
>> Total Conditioning	-	1650	538	-	9027	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	129 sqft	73	-	129 sqft	285	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	0 sqft	0	-	0 sqft	0	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	250	-	47 sqft	501	-
Floor Convection	573 sqft	428	-	573 sqft	1267	-
Interior Wall Convection	901 sqft	649	-	901 sqft	317	-
Ceiling Convection	573 sqft	522	-	573 sqft	446	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	18 CFM	2052	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	288	0	15%	730	0
>> Total Zone Loads	-	2210	0	-	5598	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 53 RDC 118 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:48 PM

DESIGN COOLING DAY AT JULY 8:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	70.4	0.01350	100	400	-496	345
Air-to-Air Energy Recovery	Outlet	70.4	0.01350	100	400	0	0
Vent - Return Mixing	Outlet	72.8	0.01312	208	400	-	-
Central Cooling Coil	Outlet	65.6	0.01259	208	400	1650	538
Central Heating Coil	Outlet	65.6	0.01259	208	400	0	-
Supply Fan	Outlet	65.6	0.01259	208	400	0	-
Cold Supply Duct	Outlet	65.6	0.01259	208	400	-	-
Zone Air	-	75.0	0.01272	208	400	2158	124
Return Air	Outlet	75.0	0.01277	208	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 118	2158	Cooling	2158	75.0	208	400	0	0

System Psychrometrics for 53 RDC 118 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:48 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-3391	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	100	400	-6315	0
Vent - Return Mixing	Outlet	54.9	0.00026	208	400	-	-
Central Cooling Coil	Outlet	54.9	0.00026	208	400	0	0
Central Heating Coil	Outlet	95.1	0.00026	208	400	9027	-
Supply Fan	Outlet	95.1	0.00026	208	400	0	-
Cold Supply Duct	Outlet	95.1	0.00026	208	400	-	-
Zone Air	-	70.0	0.00026	208	400	-5626	0
Return Air	Outlet	70.0	0.00026	208	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 118	-5626	Heating	-5626	70.0	208	400	0	0

Air System Sizing Summary for 54 RDC 119 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:48 PM

Air System Information

Air System Name **54 RDC 119 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **852.3** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.4** Tons
Total coil load **5.1** MBH
Sensible coil load **4.7** MBH
Coil CFM at peak load **635** CFM
Sum of peak zone CFM **635** CFM
Sensible heat ratio **0.935**
CFM/Ton **1505.0**
sqft/Ton **2019.5**
BTU/(hr sqft) **5.9**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 8:00**
OA DB / WB **70.0 / 66.9** F
Entering DB / WB **74.3 / 67.9** F
Leaving DB / WB **67.5 / 65.6** F
Resulting RH **70** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **20.5** MBH
Coil CFM at Design Heating **635** CFM
Max coil CFM **635** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **24.1**
Ent. DB / Lvg DB **65.0 / 95.0** F

Supply Fan Sizing Data

Design CFM **635** CFM
Design CFM/sqft **0.75** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.12** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 54 RDC 119 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:48 PM

Air System Information

Air System Name **54 RDC 119 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **852.3** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC 119	635	635	0.75	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC 119	5.4	June 8:00	17.1	852.3

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC 119						
RDC 119	5.4	June 8:00	635	17.1	852.3	0.75

Air System Heat Balance Summary for 54 RDC 119 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:48 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	5243	82	-	17116	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	635 CFM	0	-	635 CFM	0	-
Ventilation Load	100 CFM	-496	164	100 CFM	3391	0
Supply Fan Load	635 CFM	0	-	635 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	4747	246	-	20507	0
Central Cooling Coil	-	4734	330	-	0	0
Central Heating Coil	-	0	-	-	20517	-
>> Total Conditioning	-	4734	330	-	20517	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	520 sqft	453	-	520 sqft	1449	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	403	-	66 sqft	744	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	284	-	47 sqft	532	-
Floor Convection	852 sqft	1537	-	852 sqft	3273	-
Interior Wall Convection	634 sqft	601	-	634 sqft	399	-
Ceiling Convection	852 sqft	1325	-	852 sqft	1076	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	63 CFM	7390	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	690	0	15%	2230	0
>> Total Zone Loads	-	5294	0	-	17093	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 54 RDC 119 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:48 PM

DESIGN COOLING DAY AT JULY 8:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	70.4	0.01350	100	400	-496	164
Air-to-Air Energy Recovery	Outlet	70.4	0.01350	100	400	0	0
Vent - Return Mixing	Outlet	74.3	0.01320	635	400	-	-
Central Cooling Coil	Outlet	67.5	0.01310	635	400	4734	330
Central Heating Coil	Outlet	67.5	0.01310	635	400	0	-
Supply Fan	Outlet	67.5	0.01310	635	400	0	-
Cold Supply Duct	Outlet	67.5	0.01310	635	400	-	-
Zone Air	-	75.0	0.01313	635	400	5243	82
Return Air	Outlet	75.0	0.01315	635	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 119	5243	Cooling	5243	75.0	635	400	0	0

System Psychrometrics for 54 RDC 119 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:48 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-3391	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	100	400	-6315	0
Vent - Return Mixing	Outlet	65.0	0.00026	635	400	-	-
Central Cooling Coil	Outlet	65.0	0.00026	635	400	0	0
Central Heating Coil	Outlet	95.0	0.00026	635	400	20517	-
Supply Fan	Outlet	95.0	0.00026	635	400	0	-
Cold Supply Duct	Outlet	95.0	0.00026	635	400	-	-
Zone Air	-	70.0	0.00026	635	400	-17116	0
Return Air	Outlet	70.0	0.00026	635	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 119	-17116	Heating	-17116	70.0	635	400	0	0

Air System Sizing Summary for 55 RDC 120 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:48 PM

Air System Information

Air System Name **55 RDC 120 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **593.9** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.4** Tons
Total coil load **4.5** MBH
Sensible coil load **3.3** MBH
Coil CFM at peak load **220** CFM
Sum of peak zone CFM **220** CFM
Sensible heat ratio **0.733**
CFM/Ton **582.7**
sqft/Ton **1573.1**
BTU/(hr sqft) **7.6**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 10:00**
OA DB / WB **76.4 / 68.9** F
Entering DB / WB **75.3 / 67.3** F
Leaving DB / WB **61.6 / 61.1** F
Resulting RH **62** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **9.4** MBH
Coil CFM at Design Heating **220** CFM
Max coil CFM **220** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **15.8**
Ent. DB / Lvg DB **55.7 / 95.1** F

Supply Fan Sizing Data

Design CFM **220** CFM
Design CFM/sqft **0.37** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.17** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 55 RDC 120 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:48 PM

Air System Information

Air System Name **55 RDC 120 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **593.9** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC 120	220	220	0.37	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC 120	3.7	September 11:00	5.9	593.9

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC 120						
RDC 120	3.7	September 11:00	220	5.9	593.9	0.37

Air System Heat Balance Summary for 55 RDC 120 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:48 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 10:00			DESIGN HEATING		
	OA DB / WB 76.4 F / 68.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	3252	222	-	5962	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	220 CFM	0	-	220 CFM	0	-
Ventilation Load	100 CFM	60	861	100 CFM	3391	0
Supply Fan Load	220 CFM	0	-	220 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	3312	1083	-	9353	0
Central Cooling Coil	-	3318	1212	-	0	0
Central Heating Coil	-	0	-	-	9363	-
>> Total Conditioning	-	3318	1212	-	9363	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 10:00			DESIGN HEATING		
	OA DB / WB 76.4 F / 68.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	143 sqft	167	-	143 sqft	318	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	0 sqft	0	-	0 sqft	0	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	402	-	47 sqft	500	-
Floor Convection	594 sqft	700	-	594 sqft	1341	-
Interior Wall Convection	895 sqft	866	-	895 sqft	304	-
Ceiling Convection	594 sqft	896	-	594 sqft	463	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	19 CFM	2222	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	455	0	15%	772	0
>> Total Zone Loads	-	3486	0	-	5920	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 55 RDC 120 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:48 PM

DESIGN COOLING DAY AT AUGUST 10:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	76.6	0.01351	100	400	60	861
Air-to-Air Energy Recovery	Outlet	75.6	0.01351	100	400	114	0
Vent - Return Mixing	Outlet	75.3	0.01252	220	400	-	-
Central Cooling Coil	Outlet	61.6	0.01139	220	400	3318	1212
Central Heating Coil	Outlet	61.6	0.01139	220	400	0	-
Supply Fan	Outlet	61.6	0.01139	220	400	0	-
Cold Supply Duct	Outlet	61.6	0.01139	220	400	-	-
Zone Air	-	75.0	0.01160	220	400	3252	222
Return Air	Outlet	75.0	0.01169	220	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 120	3250	Cooling	3252	75.0	220	400	0	0

System Psychrometrics for 55 RDC 120 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:48 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-3391	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	100	400	-6315	0
Vent - Return Mixing	Outlet	55.7	0.00026	220	400	-	-
Central Cooling Coil	Outlet	55.7	0.00026	220	400	0	0
Central Heating Coil	Outlet	95.1	0.00026	220	400	9363	-
Supply Fan	Outlet	95.1	0.00026	220	400	0	-
Cold Supply Duct	Outlet	95.1	0.00026	220	400	-	-
Zone Air	-	70.0	0.00026	220	400	-5962	0
Return Air	Outlet	70.0	0.00026	220	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 120	-5962	Heating	-5962	70.0	220	400	0	0

Air System Sizing Summary for 56 RDC 121 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:48 PM

Air System Information

Air System Name **56 RDC 121 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **991.0** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.6** Tons
Total coil load **6.8** MBH
Sensible coil load **6.5** MBH
Coil CFM at peak load **711** CFM
Sum of peak zone CFM **711** CFM
Sensible heat ratio **0.957**
CFM/Ton **1260.5**
sqft/Ton **1756.8**
BTU/(hr sqft) **6.8**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 11:00**
OA DB / WB **79.4 / 69.8** F
Entering DB / WB **75.2 / 68.1** F
Leaving DB / WB **67.0 / 65.4** F
Resulting RH **70** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **22.6** MBH
Coil CFM at Design Heating **711** CFM
Max coil CFM **711** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **22.8**
Ent. DB / Lvg DB **65.6 / 95.0** F

Supply Fan Sizing Data

Design CFM **711** CFM
Design CFM/sqft **0.72** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.10** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 56 RDC 121 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:48 PM

Air System Information

Air System Name **56 RDC 121 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **991.0** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC 121	711	711	0.72	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC 121	6.7	September 12:00	19.1	991.0

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC 121						
RDC 121	6.7	September 12:00	711	19.1	991.0	0.72

Air System Heat Balance Summary for 56 RDC 121 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:48 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 11:00			DESIGN HEATING		
	OA DB / WB 79.4 F / 69.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	6297	40	-	19156	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	711 CFM	0	-	711 CFM	0	-
Ventilation Load	100 CFM	172	209	100 CFM	3391	0
Supply Fan Load	711 CFM	0	-	711 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	6469	249	-	22547	0
Central Cooling Coil	-	6475	294	-	0	0
Central Heating Coil	-	0	-	-	22557	-
>> Total Conditioning	-	6475	294	-	22557	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 11:00			DESIGN HEATING		
	OA DB / WB 79.4 F / 69.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	608 sqft	685	-	608 sqft	1669	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	382	-	66 sqft	731	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	399	-	47 sqft	529	-
Floor Convection	991 sqft	1881	-	991 sqft	3727	-
Interior Wall Convection	606 sqft	601	-	606 sqft	366	-
Ceiling Convection	991 sqft	1532	-	991 sqft	1204	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	72 CFM	8414	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	822	0	15%	2496	0
>> Total Zone Loads	-	6302	0	-	19135	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 56 RDC 121 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:48 PM

DESIGN COOLING DAY AT AUGUST 11:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	79.6	0.01351	100	400	172	209
Air-to-Air Energy Recovery	Outlet	76.6	0.01351	100	400	328	0
Vent - Return Mixing	Outlet	75.2	0.01313	711	400	-	-
Central Cooling Coil	Outlet	67.0	0.01305	711	400	6475	294
Central Heating Coil	Outlet	67.0	0.01305	711	400	0	-
Supply Fan	Outlet	67.0	0.01305	711	400	0	-
Cold Supply Duct	Outlet	67.0	0.01305	711	400	-	-
Zone Air	-	75.0	0.01306	711	400	6297	40
Return Air	Outlet	75.0	0.01307	711	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 121	6296	Cooling	6297	75.0	711	400	0	0

System Psychrometrics for 56 RDC 121 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-3391	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	100	400	-6315	0
Vent - Return Mixing	Outlet	65.6	0.00026	711	400	-	-
Central Cooling Coil	Outlet	65.6	0.00026	711	400	0	0
Central Heating Coil	Outlet	95.0	0.00026	711	400	22557	-
Supply Fan	Outlet	95.0	0.00026	711	400	0	-
Cold Supply Duct	Outlet	95.0	0.00026	711	400	-	-
Zone Air	-	70.0	0.00026	711	400	-19156	0
Return Air	Outlet	70.0	0.00026	711	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 121	-19156	Heating	-19156	70.0	711	400	0	0

Air System Sizing Summary for 57 RDC 122 à 126 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:48 PM

Air System Information

Air System Name **57 RDC 122 à 126 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **3286.8** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **3.2** Tons
Total coil load **38.7** MBH
Sensible coil load **30.9** MBH
Coil CFM at peak load **1799** CFM
Sum of peak zone CFM **1799** CFM
Sensible heat ratio **0.799**
CFM/Ton **557.6**
sqft/Ton **1018.7**
BTU/(hr sqft) **11.8**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 15:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **76.1 / 66.7** F
Leaving DB / WB **60.5 / 60.1** F
Resulting RH **60** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **56.6** MBH
Coil CFM at Design Heating **1799** CFM
Max coil CFM **1799** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **17.2**
Ent. DB / Lvg DB **61.2 / 90.4** F

Supply Fan Sizing Data

Design CFM **1799** CFM
Design CFM/sqft **0.55** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **500** CFM
CFM/sqft **0.15** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 57 RDC 122 à 126 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:48 PM

Air System Information

Air System Name **57 RDC 122 à 126 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **3286.8** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC 122 à 126	1799	1799	0.55	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC 122 à 126	32.9	September 15:00	39.2	3286.8

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC 122 à 126						
RDC 122 à 126	32.9	September 15:00	1799	39.2	3286.8	0.55

Air System Heat Balance Summary for 57 RDC 122 à 126 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:48 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	28766	1385	-	39552	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	1799 CFM	0	-	1799 CFM	0	-
Ventilation Load	500 CFM	2077	5308	500 CFM	16955	0
Supply Fan Load	1799 CFM	0	-	1799 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	30843	6693	-	56506	0
Central Cooling Coil	-	30949	7770	-	0	0
Central Heating Coil	-	0	-	-	56554	-
>> Total Conditioning	-	30949	7770	-	56554	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	821 sqft	1573	-	821 sqft	2005	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	165 sqft	1765	-	165 sqft	1720	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	237 sqft	2526	-	237 sqft	2467	-
Floor Convection	3287 sqft	10063	-	3287 sqft	9095	-
Interior Wall Convection	1779 sqft	2492	-	1779 sqft	918	-
Ceiling Convection	3287 sqft	8244	-	3287 sqft	3631	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	122 CFM	14264	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	3999	0	15%	5115	0
>> Total Zone Loads	-	30662	0	-	39216	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 57 RDC 122 à 126 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT AUGUST 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	500	400	2077	5308
Air-to-Air Energy Recovery	Outlet	78.9	0.01352	500	400	3948	0
Vent - Return Mixing	Outlet	76.1	0.01190	1799	400	-	-
Central Cooling Coil	Outlet	60.5	0.01102	1799	400	30949	7770
Central Heating Coil	Outlet	60.5	0.01102	1799	400	0	-
Supply Fan	Outlet	60.5	0.01102	1799	400	0	-
Cold Supply Duct	Outlet	60.5	0.01102	1799	400	-	-
Zone Air	-	75.0	0.01118	1799	400	28766	1385
Return Air	Outlet	75.0	0.01128	1799	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 122 à 126	28756	Cooling	28766	75.0	1799	400	0	0

System Psychrometrics for 57 RDC 122 à 126 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	500	400	-16955	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	500	400	-31576	0
Vent - Return Mixing	Outlet	61.2	0.00026	1799	400	-	-
Central Cooling Coil	Outlet	61.2	0.00026	1799	400	0	0
Central Heating Coil	Outlet	90.4	0.00026	1799	400	56554	-
Supply Fan	Outlet	90.4	0.00026	1799	400	0	-
Cold Supply Duct	Outlet	90.4	0.00026	1799	400	-	-
Zone Air	-	70.0	0.00026	1799	400	-39552	0
Return Air	Outlet	70.0	0.00026	1799	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 122 à 126	-39552	Heating	-39552	70.0	1799	400	0	0

Air System Sizing Summary for 58 RDC 127 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **58 RDC 127 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **844.7** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.9** Tons
Total coil load **10.6** MBH
Sensible coil load **8.9** MBH
Coil CFM at peak load **529** CFM
Sum of peak zone CFM **529** CFM
Sensible heat ratio **0.838**
CFM/Ton **600.5**
sqft/Ton **959.1**
BTU/(hr sqft) **12.5**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 15:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **75.7 / 66.3** F
Leaving DB / WB **60.5 / 60.1** F
Resulting RH **60** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **14.6** MBH
Coil CFM at Design Heating **529** CFM
Max coil CFM **529** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **17.3**
Ent. DB / Lvg DB **64.0 / 89.7** F

Supply Fan Sizing Data

Design CFM **529** CFM
Design CFM/sqft **0.63** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.12** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 58 RDC 127 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **58 RDC 127 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **844.7** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC 127	529	529	0.63	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC 127	9.7	September 15:00	11.2	844.7

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC 127						
RDC 127	9.7	September 15:00	529	11.2	844.7	0.63

Air System Heat Balance Summary for 58 RDC 127 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	8423	346	-	11233	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	529 CFM	0	-	529 CFM	0	-
Ventilation Load	100 CFM	415	1072	100 CFM	3391	0
Supply Fan Load	529 CFM	0	-	529 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	8838	1418	-	14624	0
Central Cooling Coil	-	8860	1709	-	0	0
Central Heating Coil	-	0	-	-	14634	-
>> Total Conditioning	-	8860	1709	-	14634	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	238 sqft	491	-	238 sqft	587	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	729	-	66 sqft	686	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	519	-	47 sqft	488	-
Floor Convection	845 sqft	2509	-	845 sqft	2438	-
Interior Wall Convection	907 sqft	1422	-	907 sqft	479	-
Ceiling Convection	845 sqft	2217	-	845 sqft	921	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	35 CFM	4098	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	1183	0	15%	1455	0
>> Total Zone Loads	-	9070	0	-	11151	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 58 RDC 127 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT AUGUST 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	100	400	415	1072
Air-to-Air Energy Recovery	Outlet	78.9	0.01352	100	400	789	0
Vent - Return Mixing	Outlet	75.7	0.01169	529	400	-	-
Central Cooling Coil	Outlet	60.5	0.01103	529	400	8860	1709
Central Heating Coil	Outlet	60.5	0.01103	529	400	0	-
Supply Fan	Outlet	60.5	0.01103	529	400	0	-
Cold Supply Duct	Outlet	60.5	0.01103	529	400	-	-
Zone Air	-	75.0	0.01116	529	400	8423	346
Return Air	Outlet	75.0	0.01126	529	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 127	8420	Cooling	8423	75.0	529	400	0	0

System Psychrometrics for 58 RDC 127 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-3391	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	100	400	-6315	0
Vent - Return Mixing	Outlet	64.0	0.00026	529	400	-	-
Central Cooling Coil	Outlet	64.0	0.00026	529	400	0	0
Central Heating Coil	Outlet	89.7	0.00026	529	400	14634	-
Supply Fan	Outlet	89.7	0.00026	529	400	0	-
Cold Supply Duct	Outlet	89.7	0.00026	529	400	-	-
Zone Air	-	70.0	0.00026	529	400	-11233	0
Return Air	Outlet	70.0	0.00026	529	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 127	-11233	Heating	-11233	70.0	529	400	0	0

Air System Sizing Summary for 59 RDC 128 et 129 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **59 RDC 128 et 129 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **1153.7** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.9** Tons
Total coil load **10.6** MBH
Sensible coil load **7.8** MBH
Coil CFM at peak load **436** CFM
Sum of peak zone CFM **436** CFM
Sensible heat ratio **0.734**
CFM/Ton **492.7**
sqft/Ton **1303.3**
BTU/(hr sqft) **9.2**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 15:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **76.8 / 67.6** F
Leaving DB / WB **60.6 / 60.2** F
Resulting RH **61** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **18.0** MBH
Coil CFM at Design Heating **436** CFM
Max coil CFM **436** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **15.6**
Ent. DB / Lvg DB **55.6 / 93.7** F

Supply Fan Sizing Data

Design CFM **436** CFM
Design CFM/sqft **0.38** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **200** CFM
CFM/sqft **0.17** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 59 RDC 128 et 129 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:48 PM

Air System Information

Air System Name **59 RDC 128 et 129 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **1153.7** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC 128 et 129	436	436	0.38	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC 128 et 129	8.0	September 15:00	11.1	1153.7

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC 128 et 129						
RDC 128 et 129	8.0	September 15:00	436	11.1	1153.7	0.38

Air System Heat Balance Summary for 59 RDC 128 et 129 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
COMPONENT LOADS	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	6922	565	-	11171	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	436 CFM	0	-	436 CFM	0	-
Ventilation Load	200 CFM	831	1944	200 CFM	6782	0
Supply Fan Load	436 CFM	0	-	436 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	7753	2509	-	17953	0
Central Cooling Coil	-	7793	2829	-	0	0
Central Heating Coil	-	0	-	-	17972	-
>> Total Conditioning	-	7793	2829	-	17972	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
Zone Heat Balance Component	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	258 sqft	422	-	258 sqft	574	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	0 sqft	0	-	0 sqft	0	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	95 sqft	908	-	95 sqft	979	-
Floor Convection	1154 sqft	1618	-	1154 sqft	2588	-
Interior Wall Convection	1256 sqft	1397	-	1256 sqft	451	-
Ceiling Convection	1154 sqft	2098	-	1154 sqft	939	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	35 CFM	4109	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	966	0	15%	1446	0
>> Total Zone Loads	-	7408	0	-	11086	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 59 RDC 128 et 129 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:48 PM

DESIGN COOLING DAY AT AUGUST 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	200	400	831	1944
Air-to-Air Energy Recovery	Outlet	78.9	0.01352	200	400	1580	0
Vent - Return Mixing	Outlet	76.8	0.01241	436	400	-	-
Central Cooling Coil	Outlet	60.6	0.01109	436	400	7793	2829
Central Heating Coil	Outlet	60.6	0.01109	436	400	0	-
Supply Fan	Outlet	60.6	0.01109	436	400	0	-
Cold Supply Duct	Outlet	60.6	0.01109	436	400	-	-
Zone Air	-	75.0	0.01136	436	400	6922	565
Return Air	Outlet	75.0	0.01147	436	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 128 et 129	6918	Cooling	6922	75.0	436	400	0	0

System Psychrometrics for 59 RDC 128 et 129 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:48 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	200	400	-6782	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	200	400	-12631	0
Vent - Return Mixing	Outlet	55.6	0.00026	436	400	-	-
Central Cooling Coil	Outlet	55.6	0.00026	436	400	0	0
Central Heating Coil	Outlet	93.7	0.00026	436	400	17972	-
Supply Fan	Outlet	93.7	0.00026	436	400	0	-
Cold Supply Duct	Outlet	93.7	0.00026	436	400	-	-
Zone Air	-	70.0	0.00026	436	400	-11171	0
Return Air	Outlet	70.0	0.00026	436	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 128 et 129	-11171	Heating	-11171	70.0	436	400	0	0

Air System Sizing Summary for 60 RDC Atelier REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:48 PM

Air System Information

Air System Name **60 RDC Atelier REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **661.6** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Heating Coil Sizing Data

Max coil load **9.6** MBH
Coil CFM at Design Heating **353** CFM
Max coil CFM **353** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **14.5**
Ent. DB / Lvg DB **70.0 / 95.1** F

Supply Fan Sizing Data

Design CFM **353** CFM
Design CFM/sqft **0.53** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **0** CFM
CFM/sqft **0.00** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 60 RDC Atelier REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:48 PM

Air System Information

Air System Name **60 RDC Atelier REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **661.6** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC Atelier	353	353	0.53	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC Atelier	0.0	February 12:00	9.5	661.6

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC Atelier						
RDC Atelier	0.0	February 12:00	353	9.5	661.6	0.53

Air System Heat Balance Summary for 60 RDC Atelier REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:48 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	-	-	-	9581	0
Plenum Load	-	-	-	-	0	0
Return Fan Load	-	-	-	353 CFM	0	-
Ventilation Load	-	-	-	0 CFM	0	0
Supply Fan Load	-	-	-	353 CFM	0	-
Zone Fan Coil Fans Load	-	-	-	-	0	-
>> Total System Loads	-	-	-	-	9581	0
Central Heating Coil	-	-	-	-	9581	-
>> Total Conditioning	-	-	-	-	9581	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	172 sqft	-	-	172 sqft	446	-
Roof Convection	0 sqft	-	-	0 sqft	0	-
Window Convection	0 sqft	-	-	0 sqft	0	-
Skylight Convection	0 sqft	-	-	0 sqft	0	-
Door Convection	77 sqft	-	-	77 sqft	1459	-
Floor Convection	662 sqft	-	-	662 sqft	2016	-
Interior Wall Convection	799 sqft	-	-	799 sqft	550	-
Ceiling Convection	662 sqft	-	-	662 sqft	890	-
Overhead Lighting Convection	-	-	-	0 W	0	-
Task Lighting Convection	-	-	-	0 W	0	-
Electric Equipment Convection	-	-	-	0 W	0	-
People Convection	-	-	-	0	0	0
Infiltration	-	-	-	25 CFM	2899	0
Miscellaneous Equipment	-	-	-	-	0	0
Air Internal Energy Change	-	-	-	-	0	0
Safety Factor	15% / 15%	-	-	15%	1239	0
>> Total Zone Loads	-	-	-	-	9499	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 60 RDC Atelier REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:48 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	0	400	0	0
Air-to-Air Energy Recovery	Outlet	-20.0	0.00026	0	400	0	0
Vent - Return Mixing	Outlet	70.0	0.00026	353	400	-	-
Central Heating Coil	Outlet	95.1	0.00026	353	400	9581	-
Supply Fan	Outlet	95.1	0.00026	353	400	0	-
Cold Supply Duct	Outlet	95.1	0.00026	353	400	-	-
Zone Air	-	70.0	0.00026	353	400	-9581	0
Return Air	Outlet	70.0	0.00026	353	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Atelier	-9581	Heating	-9581	70.0	353	400	0	0

Air System Sizing Summary for 61 RDC Billard REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:48 PM

Air System Information

Air System Name **61 RDC Billard REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **863.0** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.6** Tons
Total coil load **7.3** MBH
Sensible coil load **7.3** MBH
Coil CFM at peak load **693** CFM
Sum of peak zone CFM **693** CFM
Sensible heat ratio **1.000**
CFM/Ton **1145.7**
sqft/Ton **1426.4**
BTU/(hr sqft) **8.4**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 8:00**
OA DB / WB **70.0 / 66.9** F
Entering DB / WB **75.0 / 67.0** F
Leaving DB / WB **65.5 / 63.9** F
Resulting RH **66** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **18.7** MBH
Coil CFM at Design Heating **693** CFM
Max coil CFM **693** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **21.7**
Ent. DB / Lvg DB **70.0 / 95.0** F

Supply Fan Sizing Data

Design CFM **693** CFM
Design CFM/sqft **0.80** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **0** CFM
CFM/sqft **0.00** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 61 RDC Billard REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:48 PM

Air System Information

Air System Name **61 RDC Billard REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **863.0** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC Billard	693	693	0.80	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC Billard	7.7	June 8:00	18.7	863.0

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC Billard						
RDC Billard	7.7	June 8:00	693	18.7	863.0	0.80

Air System Heat Balance Summary for 61 RDC Billard REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:48 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	7260	0	-	18690	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	693 CFM	0	-	693 CFM	0	-
Ventilation Load	0 CFM	0	0	0 CFM	0	0
Supply Fan Load	693 CFM	0	-	693 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	7260	0	-	18690	0
Central Cooling Coil	-	7260	0	-	0	0
Central Heating Coil	-	0	-	-	18690	-
>> Total Conditioning	-	7260	0	-	18690	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	315 sqft	405	-	315 sqft	970	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	199 sqft	843	-	199 sqft	2379	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	319	-	47 sqft	562	-
Floor Convection	863 sqft	2155	-	863 sqft	3586	-
Interior Wall Convection	717 sqft	961	-	717 sqft	677	-
Ceiling Convection	863 sqft	1946	-	863 sqft	1504	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	56 CFM	6543	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0		-	0	0
Safety Factor	15% / 15%	994	0	15%	2433	0
>> Total Zone Loads	-	7624	0	-	18655	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 61 RDC Billard REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:48 PM

DESIGN COOLING DAY AT JULY 8:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	70.4	0.01350	0	400	0	0
Air-to-Air Energy Recovery	Outlet	70.4	0.01350	0	400	0	0
Vent - Return Mixing	Outlet	75.0	0.01235	693	400	-	-
Central Cooling Coil	Outlet	65.5	0.01235	693	400	7260	0
Central Heating Coil	Outlet	65.5	0.01235	693	400	0	-
Supply Fan	Outlet	65.5	0.01235	693	400	0	-
Cold Supply Duct	Outlet	65.5	0.01235	693	400	-	-
Zone Air	-	75.0	0.01235	693	400	7260	0
Return Air	Outlet	75.0	0.01235	693	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Billard	7260	Cooling	7260	75.0	693	400	0	0

System Psychrometrics for 61 RDC Billard REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:48 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	0	400	0	0
Air-to-Air Energy Recovery	Outlet	-20.0	0.00026	0	400	0	0
Vent - Return Mixing	Outlet	70.0	0.00026	693	400	-	-
Central Cooling Coil	Outlet	70.0	0.00026	693	400	0	0
Central Heating Coil	Outlet	95.0	0.00026	693	400	18690	-
Supply Fan	Outlet	95.0	0.00026	693	400	0	-
Cold Supply Duct	Outlet	95.0	0.00026	693	400	-	-
Zone Air	-	70.0	0.00026	693	400	-18690	0
Return Air	Outlet	70.0	0.00026	693	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Billard	-18690	Heating	-18690	70.0	693	400	0	0

Air System Sizing Summary for 62 RDC Bureau 157 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:48 PM

Air System Information

Air System Name **62 RDC Bureau 157 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **293.2** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.2** Tons
Total coil load **2.9** MBH
Sensible coil load **2.8** MBH
Coil CFM at peak load **293** CFM
Sum of peak zone CFM **293** CFM
Sensible heat ratio **0.977**
CFM/Ton **1221.0**
sqft/Ton **1221.8**
BTU/(hr sqft) **9.8**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 16:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **78.8 / 69.7** F
Leaving DB / WB **70.1 / 67.0** F
Resulting RH **72** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **14.0** MBH
Coil CFM at Design Heating **293** CFM
Max coil CFM **293** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **47.6**
Ent. DB / Lvg DB **38.5 / 82.7** F

Supply Fan Sizing Data

Design CFM **293** CFM
Design CFM/sqft **1.00** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **293** CFM
CFM/sqft **1.00** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 62 RDC Bureau 157 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:48 PM

Air System Information

Air System Name **62 RDC Bureau 157 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **293.2** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC Bureau 157	293	293	1.00	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC Bureau 157	1.6	August 16:00	4.0	293.2

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC Bureau 157						
RDC Bureau 157	1.6	August 16:00	293	4.0	293.2	1.00

Air System Heat Balance Summary for 62 RDC Bureau 157 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 16:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	1574	5	-	4007	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	293 CFM	0	-	293 CFM	0	-
Ventilation Load	293 CFM	1206	53	293 CFM	9935	0
Supply Fan Load	293 CFM	0	-	293 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	2780	58	-	13943	0
Central Cooling Coil	-	2813	66	-	0	0
Central Heating Coil	-	0	-	-	13971	-
>> Total Conditioning	-	2813	66	-	13971	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 16:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	133 sqft	203	-	133 sqft	307	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	16 sqft	144	-	16 sqft	167	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	0 sqft	0	-	0 sqft	0	-
Floor Convection	293 sqft	256	-	293 sqft	820	-
Interior Wall Convection	608 sqft	467	-	608 sqft	198	-
Ceiling Convection	293 sqft	339	-	293 sqft	227	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	15 CFM	1741	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	211	0	15%	519	0
>> Total Zone Loads	-	1621	0	-	3978	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 62 RDC Bureau 157 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT AUGUST 16:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	85.9	0.01352	293	400	1206	53
Air-to-Air Energy Recovery	Outlet	78.8	0.01352	293	400	2301	0
Vent - Return Mixing	Outlet	78.8	0.01352	293	400	-	-
Central Cooling Coil	Outlet	70.1	0.01348	293	400	2813	66
Central Heating Coil	Outlet	70.1	0.01348	293	400	0	-
Supply Fan	Outlet	70.1	0.01348	293	400	0	-
Cold Supply Duct	Outlet	70.1	0.01348	293	400	-	-
Zone Air	-	75.0	0.01348	293	400	1574	5
Return Air	Outlet	75.0	0.01349	293	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Bureau 157	1574	Cooling	1574	75.0	293	400	0	0

System Psychrometrics for 62 RDC Bureau 157 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	293	400	-9935	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	293	400	-18504	0
Vent - Return Mixing	Outlet	38.5	0.00026	293	400	-	-
Central Cooling Coil	Outlet	38.5	0.00026	293	400	0	0
Central Heating Coil	Outlet	82.7	0.00026	293	400	13971	-
Supply Fan	Outlet	82.7	0.00026	293	400	0	-
Cold Supply Duct	Outlet	82.7	0.00026	293	400	-	-
Zone Air	-	70.0	0.00026	293	400	-4007	0
Return Air	Outlet	70.0	0.00026	293	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Bureau 157	-4007	Heating	-4007	70.0	293	400	0	0

Air System Sizing Summary for 63 RDC Bureau 158 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **63 RDC Bureau 158 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **166.4** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.2** Tons
Total coil load **2.5** MBH
Sensible coil load **2.1** MBH
Coil CFM at peak load **166** CFM
Sum of peak zone CFM **166** CFM
Sensible heat ratio **0.849**
CFM/Ton **801.0**
sqft/Ton **802.7**
BTU/(hr sqft) **14.9**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 16:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **78.8 / 69.7** F
Leaving DB / WB **67.3 / 65.5** F
Resulting RH **70** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **9.0** MBH
Coil CFM at Design Heating **166** CFM
Max coil CFM **166** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **54.0**
Ent. DB / Lvg DB **38.5 / 88.6** F

Supply Fan Sizing Data

Design CFM **166** CFM
Design CFM/sqft **1.00** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **166** CFM
CFM/sqft **1.00** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 63 RDC Bureau 158 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **63 RDC Bureau 158 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **166.4** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC Bureau 158	166	166	1.00	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC Bureau 158	1.6	September 16:00	3.3	166.4

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC Bureau 158						
RDC Bureau 158	1.6	September 16:00	166	3.3	166.4	1.00

Air System Heat Balance Summary for 63 RDC Bureau 158 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 16:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	1407	8	-	3331	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	166 CFM	0	-	166 CFM	0	-
Ventilation Load	166 CFM	683	347	166 CFM	5629	0
Supply Fan Load	166 CFM	0	-	166 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	2090	354	-	8960	0
Central Cooling Coil	-	2111	376	-	0	0
Central Heating Coil	-	0	-	-	8976	-
>> Total Conditioning	-	2111	376	-	8976	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 16:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	113 sqft	200	-	113 sqft	287	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	16 sqft	160	-	16 sqft	178	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	0 sqft	0	-	0 sqft	0	-
Floor Convection	166 sqft	339	-	166 sqft	590	-
Interior Wall Convection	403 sqft	372	-	403 sqft	171	-
Ceiling Convection	166 sqft	260	-	166 sqft	155	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	13 CFM	1510	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	200	0	15%	433	0
>> Total Zone Loads	-	1530	0	-	3323	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 63 RDC Bureau 158 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT AUGUST 16:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	85.9	0.01352	166	400	683	347
Air-to-Air Energy Recovery	Outlet	78.8	0.01352	166	400	1303	0
Vent - Return Mixing	Outlet	78.8	0.01352	166	400	-	-
Central Cooling Coil	Outlet	67.3	0.01306	166	400	2111	376
Central Heating Coil	Outlet	67.3	0.01306	166	400	0	-
Supply Fan	Outlet	67.3	0.01306	166	400	0	-
Cold Supply Duct	Outlet	67.3	0.01306	166	400	-	-
Zone Air	-	75.0	0.01307	166	400	1407	8
Return Air	Outlet	75.0	0.01308	166	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Bureau 158	1407	Cooling	1407	75.0	166	400	0	0

System Psychrometrics for 63 RDC Bureau 158 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	166	400	-5629	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	166	400	-10483	0
Vent - Return Mixing	Outlet	38.5	0.00026	166	400	-	-
Central Cooling Coil	Outlet	38.5	0.00026	166	400	0	0
Central Heating Coil	Outlet	88.6	0.00026	166	400	8976	-
Supply Fan	Outlet	88.6	0.00026	166	400	0	-
Cold Supply Duct	Outlet	88.6	0.00026	166	400	-	-
Zone Air	-	70.0	0.00026	166	400	-3331	0
Return Air	Outlet	70.0	0.00026	166	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Bureau 158	-3331	Heating	-3331	70.0	166	400	0	0

Air System Sizing Summary for 64 RDC Bureau 159 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **64 RDC Bureau 159 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **132.9** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.2** Tons
Total coil load **2.4** MBH
Sensible coil load **1.9** MBH
Coil CFM at peak load **133** CFM
Sum of peak zone CFM **133** CFM
Sensible heat ratio **0.789**
CFM/Ton **662.7**
sqft/Ton **662.4**
BTU/(hr sqft) **18.1**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 16:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **78.8 / 69.7** F
Leaving DB / WB **65.9 / 64.6** F
Resulting RH **68** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **7.2** MBH
Coil CFM at Design Heating **133** CFM
Max coil CFM **133** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **54.2**
Ent. DB / Lvg DB **38.5 / 88.7** F

Supply Fan Sizing Data

Design CFM **133** CFM
Design CFM/sqft **1.00** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **133** CFM
CFM/sqft **1.00** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 64 RDC Bureau 159 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

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Air System Information

Air System Name **64 RDC Bureau 159 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **132.9** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC Bureau 159	133	133	1.00	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC Bureau 159	1.5	September 15:00	2.7	132.9

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC Bureau 159						
RDC Bureau 159	1.5	September 15:00	133	2.7	132.9	1.00

Air System Heat Balance Summary for 64 RDC Bureau 159 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:49 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 16:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	1336	4	-	2680	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	133 CFM	0	-	133 CFM	0	-
Ventilation Load	133 CFM	547	480	133 CFM	4510	0
Supply Fan Load	133 CFM	0	-	133 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	1883	484	-	7190	0
Central Cooling Coil	-	1901	507	-	0	0
Central Heating Coil	-	0	-	-	7203	-
>> Total Conditioning	-	1901	507	-	7203	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 16:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	84 sqft	159	-	84 sqft	214	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	16 sqft	167	-	16 sqft	178	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	0 sqft	0	-	0 sqft	0	-
Floor Convection	133 sqft	325	-	133 sqft	467	-
Interior Wall Convection	374 sqft	391	-	374 sqft	165	-
Ceiling Convection	133 sqft	227	-	133 sqft	126	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	10 CFM	1172	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	190	0	15%	348	0
>> Total Zone Loads	-	1460	0	-	2670	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 64 RDC Bureau 159 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:49 PM

DESIGN COOLING DAY AT AUGUST 16:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	85.9	0.01352	133	400	547	480
Air-to-Air Energy Recovery	Outlet	78.8	0.01352	133	400	1043	0
Vent - Return Mixing	Outlet	78.8	0.01352	133	400	-	-
Central Cooling Coil	Outlet	65.9	0.01275	133	400	1901	507
Central Heating Coil	Outlet	65.9	0.01275	133	400	0	-
Supply Fan	Outlet	65.9	0.01275	133	400	0	-
Cold Supply Duct	Outlet	65.9	0.01275	133	400	-	-
Zone Air	-	75.0	0.01275	133	400	1336	4
Return Air	Outlet	75.0	0.01276	133	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Bureau 159	1335	Cooling	1336	75.0	133	400	0	0

System Psychrometrics for 64 RDC Bureau 159 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	133	400	-4510	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	133	400	-8399	0
Vent - Return Mixing	Outlet	38.5	0.00026	133	400	-	-
Central Cooling Coil	Outlet	38.5	0.00026	133	400	0	0
Central Heating Coil	Outlet	88.7	0.00026	133	400	7203	-
Supply Fan	Outlet	88.7	0.00026	133	400	0	-
Cold Supply Duct	Outlet	88.7	0.00026	133	400	-	-
Zone Air	-	70.0	0.00026	133	400	-2680	0
Return Air	Outlet	70.0	0.00026	133	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Bureau 159	-2680	Heating	-2680	70.0	133	400	0	0

Air System Sizing Summary for 65 RDC Bureau 160 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **65 RDC Bureau 160 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **131.3** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.2** Tons
Total coil load **2.4** MBH
Sensible coil load **1.9** MBH
Coil CFM at peak load **131** CFM
Sum of peak zone CFM **131** CFM
Sensible heat ratio **0.783**
CFM/Ton **650.2**
sqft/Ton **651.4**
BTU/(hr sqft) **18.4**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 16:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **78.8 / 69.7** F
Leaving DB / WB **65.8 / 64.5** F
Resulting RH **68** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **7.1** MBH
Coil CFM at Design Heating **131** CFM
Max coil CFM **131** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **54.2**
Ent. DB / Lvg DB **38.5 / 88.8** F

Supply Fan Sizing Data

Design CFM **131** CFM
Design CFM/sqft **1.00** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **131** CFM
CFM/sqft **1.00** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 65 RDC Bureau 160 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **65 RDC Bureau 160 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **131.3** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC Bureau 160	131	131	1.00	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC Bureau 160	1.5	September 15:00	2.6	131.3

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC Bureau 160						
RDC Bureau 160	1.5	September 15:00	131	2.6	131.3	1.00

Air System Heat Balance Summary for 65 RDC Bureau 160 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:49 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 16:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	1337	4	-	2659	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	131 CFM	0	-	131 CFM	0	-
Ventilation Load	131 CFM	539	495	131 CFM	4442	0
Supply Fan Load	131 CFM	0	-	131 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	1876	499	-	7101	0
Central Cooling Coil	-	1894	523	-	0	0
Central Heating Coil	-	0	-	-	7114	-
>> Total Conditioning	-	1894	523	-	7114	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 16:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	83 sqft	158	-	83 sqft	211	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	16 sqft	169	-	16 sqft	179	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	0 sqft	0	-	0 sqft	0	-
Floor Convection	131 sqft	336	-	131 sqft	462	-
Interior Wall Convection	372 sqft	385	-	372 sqft	166	-
Ceiling Convection	131 sqft	225	-	131 sqft	125	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	10 CFM	1161	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	191	0	15%	346	0
>> Total Zone Loads	-	1464	0	-	2650	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 65 RDC Bureau 160 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT AUGUST 16:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	85.9	0.01352	131	400	539	495
Air-to-Air Energy Recovery	Outlet	78.8	0.01352	131	400	1027	0
Vent - Return Mixing	Outlet	78.8	0.01352	131	400	-	-
Central Cooling Coil	Outlet	65.8	0.01271	131	400	1894	523
Central Heating Coil	Outlet	65.8	0.01271	131	400	0	-
Supply Fan	Outlet	65.8	0.01271	131	400	0	-
Cold Supply Duct	Outlet	65.8	0.01271	131	400	-	-
Zone Air	-	75.0	0.01272	131	400	1337	4
Return Air	Outlet	75.0	0.01273	131	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Bureau 160	1337	Cooling	1337	75.0	131	400	0	0

System Psychrometrics for 65 RDC Bureau 160 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:49 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	131	400	-4442	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	131	400	-8273	0
Vent - Return Mixing	Outlet	38.5	0.00026	131	400	-	-
Central Cooling Coil	Outlet	38.5	0.00026	131	400	0	0
Central Heating Coil	Outlet	88.8	0.00026	131	400	7114	-
Supply Fan	Outlet	88.8	0.00026	131	400	0	-
Cold Supply Duct	Outlet	88.8	0.00026	131	400	-	-
Zone Air	-	70.0	0.00026	131	400	-2659	0
Return Air	Outlet	70.0	0.00026	131	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Bureau 160	-2659	Heating	-2659	70.0	131	400	0	0

Air System Sizing Summary for 66 RDC Bureau 161 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:49 PM

Air System Information

Air System Name **66 RDC Bureau 161 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **129.6** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.2** Tons
Total coil load **2.4** MBH
Sensible coil load **1.9** MBH
Coil CFM at peak load **130** CFM
Sum of peak zone CFM **130** CFM
Sensible heat ratio **0.786**
CFM/Ton **654.6**
sqft/Ton **652.7**
BTU/(hr sqft) **18.4**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 16:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **78.8 / 69.7** F
Leaving DB / WB **65.8 / 64.5** F
Resulting RH **68** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **7.0** MBH
Coil CFM at Design Heating **130** CFM
Max coil CFM **130** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **54.4**
Ent. DB / Lvg DB **38.5 / 88.7** F

Supply Fan Sizing Data

Design CFM **130** CFM
Design CFM/sqft **1.00** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **130** CFM
CFM/sqft **1.00** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 66 RDC Bureau 161 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **66 RDC Bureau 161 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **129.6** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC Bureau 161	130	130	1.00	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC Bureau 161	1.5	September 15:00	2.6	129.6

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC Bureau 161						
RDC Bureau 161	1.5	September 15:00	130	2.6	129.6	1.00

Air System Heat Balance Summary for 66 RDC Bureau 161 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:49 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 16:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	1319	3	-	2625	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	130 CFM	0	-	130 CFM	0	-
Ventilation Load	130 CFM	535	485	130 CFM	4408	0
Supply Fan Load	130 CFM	0	-	130 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	1854	488	-	7033	0
Central Cooling Coil	-	1872	511	-	0	0
Central Heating Coil	-	0	-	-	7045	-
>> Total Conditioning	-	1872	511	-	7045	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 16:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	82 sqft	155	-	82 sqft	207	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	16 sqft	169	-	16 sqft	179	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	0 sqft	0	-	0 sqft	0	-
Floor Convection	130 sqft	333	-	130 sqft	456	-
Interior Wall Convection	371 sqft	385	-	371 sqft	165	-
Ceiling Convection	130 sqft	222	-	130 sqft	123	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	10 CFM	1144	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	190	0	15%	341	0
>> Total Zone Loads	-	1453	0	-	2616	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 66 RDC Bureau 161 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT AUGUST 16:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	85.9	0.01352	130	400	535	485
Air-to-Air Energy Recovery	Outlet	78.8	0.01352	130	400	1019	0
Vent - Return Mixing	Outlet	78.8	0.01352	130	400	-	-
Central Cooling Coil	Outlet	65.8	0.01272	130	400	1872	511
Central Heating Coil	Outlet	65.8	0.01272	130	400	0	-
Supply Fan	Outlet	65.8	0.01272	130	400	0	-
Cold Supply Duct	Outlet	65.8	0.01272	130	400	-	-
Zone Air	-	75.0	0.01273	130	400	1319	3
Return Air	Outlet	75.0	0.01274	130	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Bureau 161	1319	Cooling	1319	75.0	130	400	0	0

System Psychrometrics for 66 RDC Bureau 161 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	130	400	-4408	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	130	400	-8210	0
Vent - Return Mixing	Outlet	38.5	0.00026	130	400	-	-
Central Cooling Coil	Outlet	38.5	0.00026	130	400	0	0
Central Heating Coil	Outlet	88.7	0.00026	130	400	7045	-
Supply Fan	Outlet	88.7	0.00026	130	400	0	-
Cold Supply Duct	Outlet	88.7	0.00026	130	400	-	-
Zone Air	-	70.0	0.00026	130	400	-2625	0
Return Air	Outlet	70.0	0.00026	130	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Bureau 161	-2625	Heating	-2625	70.0	130	400	0	0

Air System Sizing Summary for 67 RDC Poste1 163 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:49 PM

Air System Information

Air System Name **67 RDC Poste1 163 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **238.7** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.0** Tons
Total coil load **0.5** MBH
Sensible coil load **0.5** MBH
Coil CFM at peak load **147** CFM
Sum of peak zone CFM **147** CFM
Sensible heat ratio **1.000**
CFM/Ton **3444.7**
sqft/Ton **5594.2**
BTU/(hr sqft) **2.1**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 16:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **78.8 / 69.7** F
Leaving DB / WB **75.7 / 68.8** F
Resulting RH **73** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **5.2** MBH
Coil CFM at Design Heating **147** CFM
Max coil CFM **147** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **21.7**
Ent. DB / Lvg DB **38.5 / 71.2** F

Supply Fan Sizing Data

Design CFM **147** CFM
Design CFM/sqft **0.62** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **147** CFM
CFM/sqft **0.62** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 67 RDC Poste1 163 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **67 RDC Poste1 163 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **238.7** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC Réception1	147	147	0.62	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC Réception1	0.1	July 19:00	0.1	238.7

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC Réception1						
RDC Réception1	0.1	July 19:00	147	0.1	238.7	0.62

Air System Heat Balance Summary for 67 RDC Poste1 163 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:49 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 16:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	-109	0	-	184	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	147 CFM	0	-	147 CFM	0	-
Ventilation Load	147 CFM	605	0	147 CFM	4985	0
Supply Fan Load	147 CFM	0	-	147 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	496	0	-	5168	0
Central Cooling Coil	-	512	0	-	0	0
Central Heating Coil	-	0	-	-	5182	-
>> Total Conditioning	-	512	0	-	5182	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 16:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	0 sqft	0	-	0 sqft	0	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	0 sqft	0	-	0 sqft	0	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	0 sqft	0	-	0 sqft	0	-
Floor Convection	239 sqft	18	-	239 sqft	9	-
Interior Wall Convection	693 sqft	55	-	693 sqft	45	-
Ceiling Convection	239 sqft	23	-	239 sqft	39	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	0 CFM	0	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0		-	0	0
Safety Factor	15% / 15%	14	0	15%	14	0
>> Total Zone Loads	-	110	0	-	108	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 67 RDC Poste1 163 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT AUGUST 16:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	85.9	0.01352	147	400	605	0
Air-to-Air Energy Recovery	Outlet	78.8	0.01352	147	400	1154	0
Vent - Return Mixing	Outlet	78.8	0.01352	147	400	-	-
Central Cooling Coil	Outlet	75.7	0.01352	147	400	512	0
Central Heating Coil	Outlet	75.7	0.01352	147	400	0	-
Supply Fan	Outlet	75.7	0.01352	147	400	0	-
Cold Supply Duct	Outlet	75.7	0.01352	147	400	-	-
Zone Air	-	75.0	0.01352	147	400	-109	0
Return Air	Outlet	75.0	0.01352	147	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Réception1	0	Deadband	-109	75.0	147	400	0	0

System Psychrometrics for 67 RDC Poste1 163 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	147	400	-4985	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	147	400	-9283	0
Vent - Return Mixing	Outlet	38.5	0.00026	147	400	-	-
Central Cooling Coil	Outlet	38.5	0.00026	147	400	0	0
Central Heating Coil	Outlet	71.2	0.00026	147	400	5182	-
Supply Fan	Outlet	71.2	0.00026	147	400	0	-
Cold Supply Duct	Outlet	71.2	0.00026	147	400	-	-
Zone Air	-	70.0	0.00026	147	400	-184	0
Return Air	Outlet	70.0	0.00026	147	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Réception1	-184	Heating	-184	70.0	147	400	0	0

Air System Sizing Summary for 68 RDC Poste2 162 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:49 PM

Air System Information

Air System Name **68 RDC Poste2 162 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **135.0** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.2** Tons
Total coil load **2.1** MBH
Sensible coil load **1.8** MBH
Coil CFM at peak load **135** CFM
Sum of peak zone CFM **135** CFM
Sensible heat ratio **0.831**
CFM/Ton **755.1**
sqft/Ton **754.9**
BTU/(hr sqft) **15.9**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 15:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **78.9 / 69.7** F
Leaving DB / WB **66.9 / 65.2** F
Resulting RH **70** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **7.3** MBH
Coil CFM at Design Heating **135** CFM
Max coil CFM **135** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **54.1**
Ent. DB / Lvg DB **38.5 / 88.6** F

Supply Fan Sizing Data

Design CFM **135** CFM
Design CFM/sqft **1.00** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **135** CFM
CFM/sqft **1.00** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 68 RDC Poste2 162 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **68 RDC Poste2 162 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **135.0** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC Poste2 162	135	135	1.00	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC Poste2 162	1.5	September 15:00	2.7	135.0

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC Poste2 162						
RDC Poste2 162	1.5	September 15:00	135	2.7	135.0	1.00

Air System Heat Balance Summary for 68 RDC Poste2 162 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	1206	20	-	2711	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	135 CFM	0	-	135 CFM	0	-
Ventilation Load	135 CFM	561	307	135 CFM	4578	0
Supply Fan Load	135 CFM	0	-	135 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	1766	327	-	7289	0
Central Cooling Coil	-	1784	362	-	0	0
Central Heating Coil	-	0	-	-	7302	-
>> Total Conditioning	-	1784	362	-	7302	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	86 sqft	128	-	86 sqft	215	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	16 sqft	170	-	16 sqft	174	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	0 sqft	0	-	0 sqft	0	-
Floor Convection	135 sqft	317	-	135 sqft	474	-
Interior Wall Convection	375 sqft	357	-	375 sqft	165	-
Ceiling Convection	135 sqft	221	-	135 sqft	127	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	10 CFM	1191	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	179	0	15%	352	0
>> Total Zone Loads	-	1372	0	-	2699	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 68 RDC Poste2 162 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT AUGUST 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	135	400	561	307
Air-to-Air Energy Recovery	Outlet	78.9	0.01352	135	400	1069	0
Vent - Return Mixing	Outlet	78.9	0.01352	135	400	-	-
Central Cooling Coil	Outlet	66.9	0.01298	135	400	1784	362
Central Heating Coil	Outlet	66.9	0.01298	135	400	0	-
Supply Fan	Outlet	66.9	0.01298	135	400	0	-
Cold Supply Duct	Outlet	66.9	0.01298	135	400	-	-
Zone Air	-	75.0	0.01301	135	400	1206	20
Return Air	Outlet	75.0	0.01304	135	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Poste2 162	1205	Cooling	1206	75.0	135	400	0	0

System Psychrometrics for 68 RDC Poste2 162 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	135	400	-4578	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	135	400	-8526	0
Vent - Return Mixing	Outlet	38.5	0.00026	135	400	-	-
Central Cooling Coil	Outlet	38.5	0.00026	135	400	0	0
Central Heating Coil	Outlet	88.6	0.00026	135	400	7302	-
Supply Fan	Outlet	88.6	0.00026	135	400	0	-
Cold Supply Duct	Outlet	88.6	0.00026	135	400	-	-
Zone Air	-	70.0	0.00026	135	400	-2711	0
Return Air	Outlet	70.0	0.00026	135	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Poste2 162	-2711	Heating	-2711	70.0	135	400	0	0

Air System Sizing Summary for 69 RDC Salle Com. 173 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **69 RDC Salle Com. 173 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **1397.0** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.4** Tons
Total coil load **4.7** MBH
Sensible coil load **4.7** MBH
Coil CFM at peak load **583** CFM
Sum of peak zone CFM **583** CFM
Sensible heat ratio **1.000**
CFM/Ton **1491.0**
sqft/Ton **3572.8**
BTU/(hr sqft) **3.4**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 15:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **78.9 / 69.7** F
Leaving DB / WB **71.6 / 67.5** F
Resulting RH **73** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **32.9** MBH
Coil CFM at Design Heating **583** CFM
Max coil CFM **583** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **23.6**
Ent. DB / Lvg DB **38.5 / 90.8** F

Supply Fan Sizing Data

Design CFM **583** CFM
Design CFM/sqft **0.42** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **583** CFM
CFM/sqft **0.42** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 69 RDC Salle Com. 173 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **69 RDC Salle Com. 173 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **1397.0** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC Salons résidents	583	583	0.42	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC Salons résidents	3.2	June 8:00	13.0	1397.0

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC Salons résidents						
RDC Salons résidents	3.2	June 8:00	583	13.0	1397.0	0.42

Air System Heat Balance Summary for 69 RDC Salle Com. 173 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:49 PM

Table 1. System Loads

	DESIGN COOLING - JULY 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
COMPONENT LOADS	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	2204	1	-	13112	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	583 CFM	0	-	583 CFM	0	-
Ventilation Load	583 CFM	2422	-2	583 CFM	19769	0
Supply Fan Load	583 CFM	0	-	583 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	4626	-1	-	32881	0
Central Cooling Coil	-	4692	0	-	0	0
Central Heating Coil	-	0	-	-	32937	-
>> Total Conditioning	-	4692	0	-	32937	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

	DESIGN COOLING - JULY 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
Zone Heat Balance Component	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	239 sqft	140	-	239 sqft	535	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	94 sqft	143	-	94 sqft	989	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	72	-	47 sqft	497	-
Floor Convection	1397 sqft	595	-	1397 sqft	3036	-
Interior Wall Convection	1491 sqft	488	-	1491 sqft	594	-
Ceiling Convection	1397 sqft	346	-	1397 sqft	1209	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	38 CFM	4417	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	268	0	15%	1692	0
>> Total Zone Loads	-	2052	0	-	12968	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 69 RDC Salle Com. 173 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:49 PM

DESIGN COOLING DAY AT JULY 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	583	400	2422	-2
Air-to-Air Energy Recovery	Outlet	78.9	0.01352	583	400	4621	0
Vent - Return Mixing	Outlet	78.9	0.01352	583	400	-	-
Central Cooling Coil	Outlet	71.6	0.01352	583	400	4692	0
Central Heating Coil	Outlet	71.6	0.01352	583	400	0	-
Supply Fan	Outlet	71.6	0.01352	583	400	0	-
Cold Supply Duct	Outlet	71.6	0.01352	583	400	-	-
Zone Air	-	75.0	0.01353	583	400	2204	1
Return Air	Outlet	75.0	0.01353	583	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Salons résidents	2204	Cooling	2204	75.0	583	400	0	0

System Psychrometrics for 69 RDC Salle Com. 173 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:49 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	583	400	-19769	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	583	400	-36818	0
Vent - Return Mixing	Outlet	38.5	0.00026	583	400	-	-
Central Cooling Coil	Outlet	38.5	0.00026	583	400	0	0
Central Heating Coil	Outlet	90.8	0.00026	583	400	32937	-
Supply Fan	Outlet	90.8	0.00026	583	400	0	-
Cold Supply Duct	Outlet	90.8	0.00026	583	400	-	-
Zone Air	-	70.0	0.00026	583	400	-13112	0
Return Air	Outlet	70.0	0.00026	583	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Salons résidents	-13112	Heating	-13112	70.0	583	400	0	0

Air System Sizing Summary for 70 RDC salle commune 175 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:49 PM

Air System Information

Air System Name **70 RDC salle commune 175 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **193.7** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.2** Tons
Total coil load **2.6** MBH
Sensible coil load **2.1** MBH
Coil CFM at peak load **147** CFM
Sum of peak zone CFM **147** CFM
Sensible heat ratio **0.823**
CFM/Ton **690.1**
sqft/Ton **906.8**
BTU/(hr sqft) **13.2**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 10:00**
OA DB / WB **76.4 / 68.9** F
Entering DB / WB **75.1 / 66.8** F
Leaving DB / WB **62.2 / 61.5** F
Resulting RH **63** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **5.2** MBH
Coil CFM at Design Heating **147** CFM
Max coil CFM **147** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **27.0**
Ent. DB / Lvg DB **62.1 / 95.0** F

Supply Fan Sizing Data

Design CFM **147** CFM
Design CFM/sqft **0.76** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **37** CFM
CFM/sqft **0.19** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 70 RDC salle commune 175 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:49 PM

Air System Information

Air System Name **70 RDC salle commune 175 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **193.7** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC salle commune 175	147	147	0.76	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC salle commune 175	2.3	September 11:00	4.0	193.7

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC salle commune 175						
RDC salle commune 175	2.3	September 11:00	147	4.0	193.7	0.76

Air System Heat Balance Summary for 70 RDC salle commune 175 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:49 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 10:00			DESIGN HEATING		
	OA DB / WB 76.4 F / 68.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	2084	71	-	3979	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	147 CFM	0	-	147 CFM	0	-
Ventilation Load	37 CFM	22	309	37 CFM	1255	0
Supply Fan Load	147 CFM	0	-	147 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	2106	381	-	5234	0
Central Cooling Coil	-	2109	454	-	0	0
Central Heating Coil	-	0	-	-	5237	-
>> Total Conditioning	-	2109	454	-	5237	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 10:00			DESIGN HEATING		
	OA DB / WB 76.4 F / 68.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	118 sqft	188	-	118 sqft	307	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	28 sqft	275	-	28 sqft	307	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	0 sqft	0	-	0 sqft	0	-
Floor Convection	194 sqft	379	-	194 sqft	700	-
Interior Wall Convection	460 sqft	653	-	460 sqft	239	-
Ceiling Convection	194 sqft	446	-	194 sqft	203	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	15 CFM	1694	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	291	0	15%	517	0
>> Total Zone Loads	-	2232	0	-	3967	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 70 RDC salle commune 175 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:50 PM

DESIGN COOLING DAY AT AUGUST 10:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	76.6	0.01351	37	400	22	309
Air-to-Air Energy Recovery	Outlet	75.6	0.01351	37	400	42	0
Vent - Return Mixing	Outlet	75.1	0.01219	147	400	-	-
Central Cooling Coil	Outlet	62.2	0.01156	147	400	2109	454
Central Heating Coil	Outlet	62.2	0.01156	147	400	0	-
Supply Fan	Outlet	62.2	0.01156	147	400	0	-
Cold Supply Duct	Outlet	62.2	0.01156	147	400	-	-
Zone Air	-	75.0	0.01166	147	400	2084	71
Return Air	Outlet	75.0	0.01174	147	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC salle commune 175	2084	Cooling	2084	75.0	147	400	0	0

System Psychrometrics for 70 RDC salle commune 175 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:50 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	37	400	-1255	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	37	400	-2337	0
Vent - Return Mixing	Outlet	62.1	0.00026	147	400	-	-
Central Cooling Coil	Outlet	62.1	0.00026	147	400	0	0
Central Heating Coil	Outlet	95.0	0.00026	147	400	5237	-
Supply Fan	Outlet	95.0	0.00026	147	400	0	-
Cold Supply Duct	Outlet	95.0	0.00026	147	400	-	-
Zone Air	-	70.0	0.00026	147	400	-3979	0
Return Air	Outlet	70.0	0.00026	147	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC salle commune 175	-3979	Heating	-3979	70.0	147	400	0	0

Air System Sizing Summary for 71 RDC SOINS 167 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:50 PM

Air System Information

Air System Name **71 RDC SOINS 167 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **196.0** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.1** Tons
Total coil load **1.4** MBH
Sensible coil load **1.4** MBH
Coil CFM at peak load **196** CFM
Sum of peak zone CFM **196** CFM
Sensible heat ratio **1.000**
CFM/Ton **1623.7**
sqft/Ton **1623.4**
BTU/(hr sqft) **7.4**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 15:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **78.9 / 69.7** F
Leaving DB / WB **72.2 / 67.7** F
Resulting RH **73** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **10.3** MBH
Coil CFM at Design Heating **196** CFM
Max coil CFM **196** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **52.3**
Ent. DB / Lvg DB **38.5 / 86.9** F

Supply Fan Sizing Data

Design CFM **196** CFM
Design CFM/sqft **1.00** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **196** CFM
CFM/sqft **1.00** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 71 RDC SOINS 167 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:50 PM

Air System Information

Air System Name **71 RDC SOINS 167 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **196.0** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC SOINS 167	196	196	1.00	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC SOINS 167	1.8	June 8:00	3.5	196.0

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC SOINS 167						
RDC SOINS 167	1.8	June 8:00	196	3.5	196.0	1.00

Air System Heat Balance Summary for 71 RDC SOINS 167 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:50 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	612	0	-	3586	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	196 CFM	0	-	196 CFM	0	-
Ventilation Load	196 CFM	814	0	196 CFM	6646	0
Supply Fan Load	196 CFM	0	-	196 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	1426	0	-	10232	0
Central Cooling Coil	-	1449	0	-	0	0
Central Heating Coil	-	0	-	-	10251	-
>> Total Conditioning	-	1449	0	-	10251	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	85 sqft	69	-	85 sqft	220	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	33 sqft	62	-	33 sqft	357	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	0 sqft	0	-	0 sqft	0	-
Floor Convection	196 sqft	113	-	196 sqft	658	-
Interior Wall Convection	460 sqft	199	-	460 sqft	257	-
Ceiling Convection	196 sqft	114	-	196 sqft	213	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	12 CFM	1381	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	84	0	15%	463	0
>> Total Zone Loads	-	641	0	-	3549	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 71 RDC SOINS 167 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:50 PM

DESIGN COOLING DAY AT JULY 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	196	400	814	0
Air-to-Air Energy Recovery	Outlet	78.9	0.01352	196	400	1554	0
Vent - Return Mixing	Outlet	78.9	0.01352	196	400	-	-
Central Cooling Coil	Outlet	72.2	0.01352	196	400	1449	0
Central Heating Coil	Outlet	72.2	0.01352	196	400	0	-
Supply Fan	Outlet	72.2	0.01352	196	400	0	-
Cold Supply Duct	Outlet	72.2	0.01352	196	400	-	-
Zone Air	-	75.0	0.01353	196	400	612	0
Return Air	Outlet	75.0	0.01353	196	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC SOINS 167	612	Cooling	612	75.0	196	400	0	0

System Psychrometrics for 71 RDC SOINS 167 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:50 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	196	400	-6646	0
Air-to-Air Energy Recovery	Outlet	38.5	0.00026	196	400	-12378	0
Vent - Return Mixing	Outlet	38.5	0.00026	196	400	-	-
Central Cooling Coil	Outlet	38.5	0.00026	196	400	0	0
Central Heating Coil	Outlet	86.9	0.00026	196	400	10251	-
Supply Fan	Outlet	86.9	0.00026	196	400	0	-
Cold Supply Duct	Outlet	86.9	0.00026	196	400	-	-
Zone Air	-	70.0	0.00026	196	400	-3586	0
Return Air	Outlet	70.0	0.00026	196	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC SOINS 167	-3586	Heating	-3586	70.0	196	400	0	0

Air System Sizing Summary for 72 SAS/Corridor REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:50 PM

Air System Information

Air System Name **72 SAS/Corridor REF**
Equipment Class **SPLT AHU**
Air System Type **VAV**

Number of zones **9**
Floor Area **15164.9** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Peak zone sensible load**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **3.1** Tons
Total coil load **37.1** MBH
Sensible coil load **29.7** MBH
Coil CFM at peak load **1399** CFM
Sum of peak zone CFM **2812** CFM
Sensible heat ratio **0.800**
CFM/Ton **452.3**
sqft/Ton **4903.1**
BTU/(hr sqft) **2.4**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 9:00**
OA DB / WB **73.0 / 67.9** F
Entering DB / WB **74.3 / 63.4** F
Leaving DB / WB **55.0 / 54.5** F
Resulting RH **50** %
Design supply temp. **55.0** F
Zone T-stat Check **9 of 9** OK
Max zone temperature deviation **0.0** F

Preheat Coil Sizing Data

Max coil load **5.7** MBH
Coil CFM at February 7:00 **423** CFM
Max coil CFM **1799** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **February 7:00**
Ent. DB / Lvg DB **37.6 / 50.0** F

Supply Fan Sizing Data

Design CFM **1799** CFM
Design CFM occurs at **July 17:00**
Design CFM/sqft **0.12** CFM/sqft
Sum of peak zone CFM **2812** CFM
VAV Fan Diversity **36.0** %

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **327** CFM
CFM/sqft **0.02** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 72 SAS/Corridor REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:50 PM

Air System Information

Air System Name **72 SAS/Corridor REF**
 Equipment Class **SPLT AHU**
 Air System Type **VAV**

Number of zones **9**
 Floor Area **15164.9** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Peak zone sensible load**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E corridor	237	2	0.06	5.7	-	0.0	-	0
3E corridor 300	251	3	0.07	5.7	-	0.0	-	0
4E corridor 400	429	226	0.11	14.6	-	0.0	-	0
RDC Corridor	84	1	0.04	0.0	-	0.0	-	0
RDC Corridor 100	139	59	0.14	4.7	-	0.0	-	0
RDC Corridor 100A	12	12	0.06	0.3	-	0.0	-	0
RDC Hall/Vestibule 170/171	1220	16	4.62	41.4	-	0.0	-	0
RDC Vestibule 001	350	10	2.17	11.9	-	0.0	-	0
RDC Vestibule100C	90	4	1.30	3.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E corridor	5.1	July 18:00	3.8	3762.6
3E corridor 300	5.4	July 18:00	3.9	3768.3
4E corridor 400	8.0	July 18:00	11.6	3765.4
RDC Corridor	1.8	July 18:00	1.2	2188.7
RDC Corridor 100	2.4	July 18:00	3.7	980.6
RDC Corridor 100A	0.1	July 19:00	0.1	205.2
RDC Hall/Vestibule 170/171	21.3	July 8:00	32.8	264.3
RDC Vestibule 001	1.0	August 19:00	9.4	161.1
RDC Vestibule100C	1.9	September 15:00	2.0	68.8

Zone Sizing Summary for 72 SAS/Corridor REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:50 PM

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E corridor						
2E corridor	5.1	July 18:00	237	3.8	3762.6	0.06
3E corridor 300						
3E corridor 300	5.4	July 18:00	251	3.9	3768.3	0.07
4E corridor 400						
4E corridor 400	8.0	July 18:00	429	11.6	3765.4	0.11
RDC Corridor						
RDC Corridor	1.8	July 18:00	84	1.2	2188.7	0.04
RDC Corridor 100						
RDC Corridor 100	2.4	July 18:00	139	3.7	980.6	0.14
RDC Corridor 100A						
RDC Corridor 100A	0.1	July 19:00	12	0.1	205.2	0.06
RDC Hall/Vestibule 170/171						
RDC Vestibule 171	21.3	July 8:00	1220	32.8	264.3	4.62
RDC Vestibule 001						
RDC Vestibule 001	1.0	August 19:00	350	9.4	161.1	2.17
RDC Vestibule100C						
RDC Vestibule100C	1.9	September 15:00	90	2.0	68.8	1.30

Air System Heat Balance Summary for 72 SAS/Corridor REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:50 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 9:00			DESIGN HEATING		
	OA DB / WB 73.0 F / 67.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	30039	145	-	57480	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	1399 CFM	0	-	1799 CFM	0	-
Ventilation Load	327 CFM	-461	7060	327 CFM	30005	0
Supply Fan Load	1399 CFM	0	-	1799 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	29578	7206	-	87484	0
Central Cooling Coil	-	29696	7419	-	0	0
Preheat Coil	-	0	-	-	239	-
Terminal Reheat Coils	-	0	-	-	87331	-
>> Total Conditioning	-	29696	7419	-	87570	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 9:00			DESIGN HEATING		
	OA DB / WB 73.0 F / 67.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	1194 sqft	2826	-	1194 sqft	4342	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	631 sqft	5417	-	631 sqft	10134	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	98 sqft	880	-	98 sqft	1571	-
Floor Convection	15165 sqft	5259	-	15165 sqft	5857	-
Interior Wall Convection	46402 sqft	10542	-	46402 sqft	9391	-
Ceiling Convection	15165 sqft	3665	-	15165 sqft	7987	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	174 CFM	20290	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	4288	0	15%	8936	0
>> Total Zone Loads	-	32876	0	-	68507	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 72 SAS/Corridor REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:50 PM

DESIGN COOLING DAY AT JULY 9:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	73.3	0.01351	327	400	-461	7060
Vent - Return Mixing	Outlet	74.3	0.01001	1399	400	-	-
Preheat Coil	Outlet	74.3	0.01001	1399	400	0	-
Central Cooling Coil	Outlet	55.0	0.00893	1399	400	29696	7419
Supply Fan	Outlet	55.0	0.00893	1399	400	0	-
Cold Supply Duct	Outlet	55.0	0.00893	1399	400	-	-
Zone Air	-	74.4	0.00900	1399	400	30039	145
Return Air	Outlet	74.6	0.00895	1399	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E corridor	1656	Cooling	1656	75.0	75	400	0	0
3E corridor 300	1801	Cooling	1801	75.0	82	400	0	0
4E corridor 400	0	Deadband	4550	73.4	226	400	0	0
RDC Corridor	629	Cooling	629	75.0	29	400	0	0
RDC Corridor 100	0	Deadband	1181	73.3	59	400	0	0
RDC Corridor 100A	0	Deadband	230	72.0	12	400	0	0
RDC Hall/Vestibule 170/171	19778	Cooling	19777	75.0	902	400	0	0
RDC Vestibule 001	0	Deadband	192	73.1	10	400	0	0
RDC Vestibule100C	87	Cooling	98	75.0	4	400	0	0

System Psychrometrics for 72 SAS/Corridor REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:50 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	327	400	-30005	0
Vent - Return Mixing	Outlet	49.8	0.00026	1799	400	-	-
Preheat Coil	Outlet	49.9	0.00026	1799	400	239	-
Central Cooling Coil	Outlet	49.9	0.00026	1799	400	0	0
Supply Fan	Outlet	49.9	0.00026	1799	400	0	-
Cold Supply Duct	Outlet	49.9	0.00026	1799	400	-	-
Zone Air	-	69.0	0.00026	1799	400	-57480	0
Return Air	Outlet	65.3	0.00026	1799	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E corridor	-4551	Heating	-3177	69.9	117	400	5697	0
3E corridor 300	-4566	Heating	-3187	69.9	117	400	5715	0
4E corridor 400	-21478	Heating	-8440	68.9	300	400	14581	0
RDC Corridor	-7870	Heating	12	68.6	1	400	0	0
RDC Corridor 100	-7684	Heating	-2810	68.1	97	400	4713	0
RDC Corridor 100A	-86	Heating	-86	70.0	9	400	272	0
RDC Hall/Vestibule 170/171	-54476	Heating	-29490	62.9	852	400	41425	0
RDC Vestibule 001	-18520	Heating	-8447	63.0	244	400	11883	0
RDC Vestibule100C	-3313	Heating	-1856	67.5	63	400	3045	0

Air System Sizing Summary for 73 169/ 170 / Corridor 100 et 2E HALL 170 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:50 PM

Air System Information

Air System Name **73 169/ 170 / Corridor 100 et 2E HALL 170**

REF.

Equipment Class **SPLT AHU**

Air System Type **VAV**

Number of zones **2**

Floor Area **2895.3** sqft

Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**

Sizing Data **Calculated**

Zone CFM Sizing **Peak zone sensible load**

Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.0** Tons

Total coil load **12.4** MBH

Sensible coil load **7.5** MBH

Coil CFM at peak load **220** CFM

Sum of peak zone CFM **556** CFM

Sensible heat ratio **0.609**

CFM/Ton **212.9**

sqft/Ton **2801.9**

BTU/(hr sqft) **4.3**

Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 15:00**

OA DB / WB **86.1 / 71.8** F

Entering DB / WB **86.0 / 71.8** F

Leaving DB / WB **55.0 / 54.6** F

Resulting RH **53** %

Design supply temp. **55.0** F

Zone T-stat Check **2 of 2** OK

Max zone temperature deviation **0.0** F

Preheat Coil Sizing Data

Max coil load **9.8** MBH

Coil CFM at Design Heating **540** CFM

Max coil CFM **540** CFM

Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**

Ent. DB / Lvg DB **33.1 / 50.0** F

Supply Fan Sizing Data

Design CFM **540** CFM

Design CFM occurs at **July 18:00**

Design CFM/sqft **0.19** CFM/sqft

Sum of peak zone CFM **556** CFM

VAV Fan Diversity **2.9** %

Fan motor BHP **0.00** BHP

Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **220** CFM

CFM/sqft **0.08** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 73 169/ 170 / Corridor 100 et 2E HALL 170 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:50 PM

Air System Information

Air System Name **73 169/ 170 / Corridor 100 et 2E HALL 170**

Number of zones **2**

REF..... Floor Area **2895.3** sqft

Location **Montreal St-Hubert, QC, Canada**

Equipment Class **SPLT AHU**

Air System Type **VAV**

Sizing Calculation Information

Calculation Months **Jan to Dec**

Zone CFM Sizing **Peak zone sensible load**

Sizing Data **Calculated**

Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E Hall 170	40	40	0.06	1.4	-	0.0	-	0
RDC 169 / 170 / Corridor 100	516	180	0.23	24.4	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E Hall 170	0.6	July 10:00	0.4	660.6
RDC 169 / 170 / Corridor 100	3.2	July 18:00	13.9	2234.7

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E Hall 170						
2E Hall 170	0.6	July 10:00	40	0.4	660.6	0.06
RDC 169 / 170 / Corridor 100						
RDC 169 / 170 / Corridor 100	3.2	July 18:00	516	13.9	2234.7	0.23

Air System Heat Balance Summary for 73 169/ 170 / Corridor 100 et 2E HALL 170 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:50 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	4139	14	-	14274	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	220 CFM	0	-	540 CFM	0	-
Ventilation Load	220 CFM	3233	4688	220 CFM	21235	0
Supply Fan Load	220 CFM	0	-	540 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	7371	4702	-	35509	0
Central Cooling Coil	-	7549	4851	-	0	0
Preheat Coil	-	0	-	-	9829	-
Terminal Reheat Coils	-	0	-	-	25740	-
>> Total Conditioning	-	7549	4851	-	35569	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	328 sqft	160	-	328 sqft	665	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	165	-	66 sqft	704	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	21 sqft	58	-	21 sqft	556	-
Floor Convection	2895 sqft	697	-	2895 sqft	3265	-
Interior Wall Convection	4710 sqft	1120	-	4710 sqft	1082	-
Ceiling Convection	2895 sqft	471	-	2895 sqft	1346	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	42 CFM	4844	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	401	0	15%	1869	0
>> Total Zone Loads	-	3071	0	-	14331	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 73 169/ 170 / Corridor 100 et 2E HALL 170 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:50 PM

DESIGN COOLING DAY AT JULY 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	220	400	3233	4688
Vent - Return Mixing	Outlet	86.0	0.01352	220	400	-	-
Preheat Coil	Outlet	86.0	0.01352	220	400	0	-
Central Cooling Coil	Outlet	55.0	0.00901	220	400	7549	4851
Supply Fan	Outlet	55.0	0.00901	220	400	0	-
Cold Supply Duct	Outlet	55.0	0.00901	220	400	-	-
Zone Air	-	72.4	0.00902	220	400	4139	14
Return Air	Outlet	72.4	0.00902	220	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E Hall 170	0	Deadband	797	73.2	40	400	0	0
RDC 169 / 170 / Corridor 100	0	Deadband	3402	72.2	180	400	0	0

System Psychrometrics for 73 169/ 170 / Corridor 100 et 2E HALL 170 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:50 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	220	400	-21235	0
Vent - Return Mixing	Outlet	33.1	0.00026	540	400	-	-
Preheat Coil	Outlet	50.0	0.00026	540	400	9829	-
Central Cooling Coil	Outlet	50.0	0.00026	540	400	0	0
Supply Fan	Outlet	50.0	0.00026	540	400	0	-
Cold Supply Duct	Outlet	50.0	0.00026	540	400	-	-
Zone Air	-	69.7	0.00026	540	400	-14274	0
Return Air	Outlet	69.7	0.00026	540	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E Hall 170	-550	Heating	-550	70.0	39	400	1389	0
RDC 169 / 170 / Corridor 100	-16654	Heating	-13724	69.6	501	400	24351	0

Air System Sizing Summary for 74 RDC Passage couvert 176 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:50 PM

Air System Information

Air System Name **74 RDC Passage couvert 176 REF**
Equipment Class **SPLT AHU**
Air System Type **VAV**

Number of zones **1**
Floor Area **980.4** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Peak zone sensible load**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **3.0** Tons
Total coil load **35.4** MBH
Sensible coil load **34.1** MBH
Coil CFM at peak load **1542** CFM
Sum of peak zone CFM **2506** CFM
Sensible heat ratio **0.964**
CFM/Ton **522.3**
sqft/Ton **332.1**
BTU/(hr sqft) **36.1**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 11:00**
OA DB / WB **79.4 / 69.8** F
Entering DB / WB **75.2 / 62.4** F
Leaving DB / WB **55.0 / 54.5** F
Resulting RH **48** %
Design supply temp. **55.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Preheat Coil Sizing Data

Max coil load **1.2** MBH
Coil CFM at February 8:00 **59** CFM
Max coil CFM **2506** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **February 8:00**
Ent. DB / Lvg DB **30.9 / 50.0** F

Supply Fan Sizing Data

Design CFM **2506** CFM
Design CFM occurs at **September 11:00**
Design CFM/sqft **2.56** CFM/sqft
Sum of peak zone CFM **2506** CFM
VAV Fan Diversity **0.0** %

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **59** CFM
CFM/sqft **0.06** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 74 RDC Passage couvert 176 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:50 PM

Air System Information

Air System Name **74 RDC Passage couvert 176 REF**
 Equipment Class **SPLT AHU**
 Air System Type **VAV**

Number of zones **1**
 Floor Area **980.4** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Peak zone sensible load**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC Passage couvert 176	2506	59	2.56	108.2	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC Passage couvert 176	34.7	September 11:00	67.4	980.4

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC Passage couvert 176						
RDC Passage couvert 176	34.7	September 11:00	2506	67.4	980.4	2.56

Air System Heat Balance Summary for 74 RDC Passage couvert 176 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:50 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 11:00			DESIGN HEATING		
	OA DB / WB 79.4 F / 69.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	33832	-10	-	67710	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	1542 CFM	0	-	2506 CFM	0	-
Ventilation Load	59 CFM	289	1277	59 CFM	5697	0
Supply Fan Load	1542 CFM	0	-	2506 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	34121	1267	-	73407	0
Central Cooling Coil	-	34141	1290	-	-34781	0
Preheat Coil	-	0	-	-	0	-
Terminal Reheat Coils	-	0	-	-	108205	-
>> Total Conditioning	-	34141	1290	-	73423	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 11:00			DESIGN HEATING		
	OA DB / WB 79.4 F / 69.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	1311 sqft	5920	-	1311 sqft	6098	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	758 sqft	7655	-	758 sqft	13196	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	149 sqft	1499	-	149 sqft	2587	-
Floor Convection	980 sqft	8116	-	980 sqft	7423	-
Interior Wall Convection	171 sqft	738	-	171 sqft	357	-
Ceiling Convection	980 sqft	6199	-	980 sqft	3107	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	222 CFM	25874	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	4519	0	15%	8796	0
>> Total Zone Loads	-	34647	0	-	67437	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 74 RDC Passage couvert 176 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:50 PM

DESIGN COOLING DAY AT AUGUST 11:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	79.6	0.01351	59	400	289	1277
Vent - Return Mixing	Outlet	75.2	0.00910	1542	400	-	-
Preheat Coil	Outlet	75.2	0.00910	1542	400	0	-
Central Cooling Coil	Outlet	55.0	0.00893	1542	400	34141	1290
Supply Fan	Outlet	55.0	0.00893	1542	400	0	-
Cold Supply Duct	Outlet	55.0	0.00893	1542	400	-	-
Zone Air	-	75.0	0.00893	1542	400	33832	-10
Return Air	Outlet	75.0	0.00893	1542	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Passage couvert 176	33832	Cooling	33832	75.0	1542	400	0	0

System Psychrometrics for 74 RDC Passage couvert 176 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:50 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	59	400	-5697	0
Vent - Return Mixing	Outlet	67.9	0.00026	2506	400	-	-
Preheat Coil	Outlet	67.9	0.00026	2506	400	0	-
Central Cooling Coil	Outlet	55.0	0.00026	2506	400	34781	0
Supply Fan	Outlet	55.0	0.00026	2506	400	0	-
Cold Supply Duct	Outlet	55.0	0.00026	2506	400	-	-
Zone Air	-	70.0	0.00026	2506	400	-67710	0
Return Air	Outlet	70.0	0.00026	2506	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Passage couvert 176	-67987	Heating	-67710	70.0	2506	400	108205	0

Air System Sizing Summary for 75 2E ESC1 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:50 PM

Air System Information

Air System Name **75 2E ESC1 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **268.5** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Heating Coil Sizing Data

Max coil load **1.9** MBH
Coil CFM at Design Heating **71** CFM
Max coil CFM **71** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **7.1**
Ent. DB / Lvg DB **70.0 / 95.0** F

Supply Fan Sizing Data

Design CFM **71** CFM
Design CFM/sqft **0.27** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **0** CFM
CFM/sqft **0.00** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 75 2E ESC1 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:50 PM

Air System Information

Air System Name **75 2E ESC1 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **268.5** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E ESC1	71	71	0.27	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E ESC1	0.0	February 12:00	1.9	268.5

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E ESC1						
2E ESC1	0.0	February 12:00	71	1.9	268.5	0.27

Air System Heat Balance Summary for 75 2E ESC1 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:50 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	-	-	-	1919	0
Plenum Load	-	-	-	-	0	0
Return Fan Load	-	-	-	71 CFM	0	-
Ventilation Load	-	-	-	0 CFM	0	0
Supply Fan Load	-	-	-	71 CFM	0	-
Zone Fan Coil Fans Load	-	-	-	-	0	-
>> Total System Loads	-	-	-	-	1919	0
Central Heating Coil	-	-	-	-	1919	-
>> Total Conditioning	-	-	-	-	1919	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	345 sqft	-	-	345 sqft	834	-
Roof Convection	0 sqft	-	-	0 sqft	0	-
Window Convection	16 sqft	-	-	16 sqft	180	-
Skylight Convection	0 sqft	-	-	0 sqft	0	-
Door Convection	0 sqft	-	-	0 sqft	0	-
Floor Convection	269 sqft	-	-	269 sqft	185	-
Interior Wall Convection	362 sqft	-	-	362 sqft	207	-
Ceiling Convection	269 sqft	-	-	269 sqft	260	-
Overhead Lighting Convection	-	-	-	0 W	0	-
Task Lighting Convection	-	-	-	0 W	0	-
Electric Equipment Convection	-	-	-	0 W	0	-
People Convection	-	-	-	0	0	0
Infiltration	-	-	-	0 CFM	0	0
Miscellaneous Equipment	-	-	-	-	0	0
Air Internal Energy Change	-	-	-	-	0	0
Safety Factor	15% / 15%	-	-	15%	250	0
>> Total Zone Loads	-	-	-	-	1915	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 75 2E ESC1 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:50 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	0	400	0	0
Vent - Return Mixing	Outlet	70.0	0.00026	71	400	-	-
Central Heating Coil	Outlet	95.0	0.00026	71	400	1919	-
Supply Fan	Outlet	95.0	0.00026	71	400	0	-
Cold Supply Duct	Outlet	95.0	0.00026	71	400	-	-
Zone Air	-	70.0	0.00026	71	400	-1919	0
Return Air	Outlet	70.0	0.00026	71	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E ESC1	-1919	Heating	-1919	70.0	71	400	0	0

Air System Sizing Summary for 91 RDC Méc 154 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:50 PM

Air System Information

Air System Name **91 RDC Méc 154 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **473.0** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Heating Coil Sizing Data

Max coil load **1.0** MBH
Coil CFM at Design Heating **37** CFM
Max coil CFM **37** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **2.1**
Ent. DB / Lvg DB **70.0 / 95.3** F

Supply Fan Sizing Data

Design CFM **37** CFM
Design CFM/sqft **0.08** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **0** CFM
CFM/sqft **0.00** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 91 RDC Méc 154 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:50 PM

Air System Information

Air System Name **91 RDC Méc 154 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **473.0** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC Méc 154	37	37	0.08	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC Méc 154	0.0	January 16:00	1.0	473.0

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC Méc 154						
RDC Méc 154	0.0	January 16:00	37	1.0	473.0	0.08

Air System Heat Balance Summary for 91 RDC Méc 154 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:50 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	-	-	-	1002	0
Plenum Load	-	-	-	-	0	0
Return Fan Load	-	-	-	37 CFM	0	-
Ventilation Load	-	-	-	0 CFM	0	0
Supply Fan Load	-	-	-	37 CFM	0	-
Zone Fan Coil Fans Load	-	-	-	-	0	-
>> Total System Loads	-	-	-	-	1002	0
Central Heating Coil	-	-	-	-	1002	-
>> Total Conditioning	-	-	-	-	1002	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	67 sqft	-	-	67 sqft	117	-
Roof Convection	0 sqft	-	-	0 sqft	0	-
Window Convection	0 sqft	-	-	0 sqft	0	-
Skylight Convection	0 sqft	-	-	0 sqft	0	-
Door Convection	0 sqft	-	-	0 sqft	0	-
Floor Convection	473 sqft	-	-	473 sqft	529	-
Interior Wall Convection	841 sqft	-	-	841 sqft	106	-
Ceiling Convection	473 sqft	-	-	473 sqft	105	-
Overhead Lighting Convection	-	-	-	0 W	0	-
Task Lighting Convection	-	-	-	0 W	0	-
Electric Equipment Convection	-	-	-	0 W	0	-
People Convection	-	-	-	0	0	0
Infiltration	-	-	-	0 CFM	0	0
Miscellaneous Equipment	-	-	-	-	0	0
Air Internal Energy Change	-	-	-	-	0	0
Safety Factor	15% / 15%	-	-	15%	129	0
>> Total Zone Loads	-	-	-	-	985	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 91 RDC Méc 154 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:50 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	0	400	0	0
Vent - Return Mixing	Outlet	70.0	0.00026	37	400	-	-
Central Heating Coil	Outlet	95.3	0.00026	37	400	1002	-
Supply Fan	Outlet	95.3	0.00026	37	400	0	-
Cold Supply Duct	Outlet	95.3	0.00026	37	400	-	-
Zone Air	-	70.0	0.00026	37	400	-1002	0
Return Air	Outlet	70.0	0.00026	37	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Méc 154	-1002	Heating	-1002	70.0	37	400	0	0

Air System Sizing Summary for 90 RDC ESC3 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:50 PM

Air System Information

Air System Name **90 RDC ESC3 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **251.5** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Heating Coil Sizing Data

Max coil load **3.8** MBH
Coil CFM at Design Heating **140** CFM
Max coil CFM **140** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **15.0**
Ent. DB / Lvg DB **70.0 / 95.1** F

Supply Fan Sizing Data

Design CFM **140** CFM
Design CFM/sqft **0.56** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **0** CFM
CFM/sqft **0.00** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 90 RDC ESC3 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:50 PM

Air System Information

Air System Name **90 RDC ESC3 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **251.5** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC ESC3	140	140	0.56	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC ESC3	0.0	November 13:00	3.8	251.5

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC ESC3						
RDC ESC3	0.0	November 13:00	140	3.8	251.5	0.56

Air System Heat Balance Summary for 90 RDC ESC3 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:50 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	-	-	-	3777	0
Plenum Load	-	-	-	-	0	0
Return Fan Load	-	-	-	140 CFM	0	-
Ventilation Load	-	-	-	0 CFM	0	0
Supply Fan Load	-	-	-	140 CFM	0	-
Zone Fan Coil Fans Load	-	-	-	-	0	-
>> Total System Loads	-	-	-	-	3777	0
Central Heating Coil	-	-	-	-	3777	-
>> Total Conditioning	-	-	-	-	3777	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	327 sqft	-	-	327 sqft	912	-
Roof Convection	0 sqft	-	-	0 sqft	0	-
Window Convection	0 sqft	-	-	0 sqft	0	-
Skylight Convection	0 sqft	-	-	0 sqft	0	-
Door Convection	21 sqft	-	-	21 sqft	459	-
Floor Convection	251 sqft	-	-	251 sqft	1269	-
Interior Wall Convection	348 sqft	-	-	348 sqft	270	-
Ceiling Convection	251 sqft	-	-	251 sqft	359	-
Overhead Lighting Convection	-	-	-	0 W	0	-
Task Lighting Convection	-	-	-	0 W	0	-
Electric Equipment Convection	-	-	-	0 W	0	-
People Convection	-	-	-	0	0	0
Infiltration	-	-	-	0 CFM	0	0
Miscellaneous Equipment	-	-	-	-	0	0
Air Internal Energy Change	-	-	-	-	0	0
Safety Factor	15% / 15%	-	-	15%	490	0
>> Total Zone Loads	-	-	-	-	3758	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 90 RDC ESC3 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:51 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	0	400	0	0
Vent - Return Mixing	Outlet	70.0	0.00026	140	400	-	-
Central Heating Coil	Outlet	95.1	0.00026	140	400	3777	-
Supply Fan	Outlet	95.1	0.00026	140	400	0	-
Cold Supply Duct	Outlet	95.1	0.00026	140	400	-	-
Zone Air	-	70.0	0.00026	140	400	-3777	0
Return Air	Outlet	70.0	0.00026	140	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC ESC3	-3777	Heating	-3777	70.0	140	400	0	0

Air System Sizing Summary for 78 2E Rang. 256 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:51 PM

Air System Information

Air System Name **78 2E Rang. 256 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **336.5** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Heating Coil Sizing Data

Max coil load **0.2** MBH
Coil CFM at Design Heating **8** CFM
Max coil CFM **8** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **0.6**
Ent. DB / Lvg DB **70.0 / 93.1** F

Supply Fan Sizing Data

Design CFM **8** CFM
Design CFM/sqft **0.02** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **0** CFM
CFM/sqft **0.00** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 78 2E Rang. 256 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:51 PM

Air System Information

Air System Name **78 2E Rang. 256 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **336.5** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E Rang. 256	8	8	0.02	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E Rang. 256	0.0	April 6:00	0.2	336.5

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E Rang. 256						
2E Rang. 256	0.0	April 6:00	8	0.2	336.5	0.02

Air System Heat Balance Summary for 78 2E Rang. 256 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:51 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	-	-	-	196	0
Plenum Load	-	-	-	-	0	0
Return Fan Load	-	-	-	8 CFM	0	-
Ventilation Load	-	-	-	0 CFM	0	0
Supply Fan Load	-	-	-	8 CFM	0	-
Zone Fan Coil Fans Load	-	-	-	-	0	-
>> Total System Loads	-	-	-	-	196	0
Central Heating Coil	-	-	-	-	196	-
>> Total Conditioning	-	-	-	-	196	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	0 sqft	-	-	0 sqft	0	-
Roof Convection	0 sqft	-	-	0 sqft	0	-
Window Convection	0 sqft	-	-	0 sqft	0	-
Skylight Convection	0 sqft	-	-	0 sqft	0	-
Door Convection	0 sqft	-	-	0 sqft	0	-
Floor Convection	337 sqft	-	-	337 sqft	34	-
Interior Wall Convection	806 sqft	-	-	806 sqft	86	-
Ceiling Convection	337 sqft	-	-	337 sqft	64	-
Overhead Lighting Convection	-	-	-	0 W	0	-
Task Lighting Convection	-	-	-	0 W	0	-
Electric Equipment Convection	-	-	-	0 W	0	-
People Convection	-	-	-	0	0	0
Infiltration	-	-	-	0 CFM	0	0
Miscellaneous Equipment	-	-	-	-	0	0
Air Internal Energy Change	-	-	-	-	0	0
Safety Factor	15% / 15%	-	-	15%	28	0
>> Total Zone Loads	-	-	-	-	212	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 78 2E Rang. 256 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:51 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	0	400	0	0
Vent - Return Mixing	Outlet	70.0	0.00026	8	400	-	-
Central Heating Coil	Outlet	93.1	0.00026	8	400	196	-
Supply Fan	Outlet	93.1	0.00026	8	400	0	-
Cold Supply Duct	Outlet	93.1	0.00026	8	400	-	-
Zone Air	-	70.0	0.00026	8	400	-196	0
Return Air	Outlet	70.0	0.00026	8	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E Rang. 256	-196	Heating	-196	70.0	8	400	0	0

Air System Sizing Summary for 76 2E ESC2 / 2E Rang. 255 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:51 PM

Air System Information

Air System Name **76 2E ESC2 / 2E Rang. 255 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **357.5** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Heating Coil Sizing Data

Max coil load **2.0** MBH
Coil CFM at Design Heating **76** CFM
Max coil CFM **76** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **5.7**
Ent. DB / Lvg DB **70.0 / 94.9** F

Supply Fan Sizing Data

Design CFM **76** CFM
Design CFM/sqft **0.21** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **0** CFM
CFM/sqft **0.00** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 76 2E ESC2 / 2E Rang. 255 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:51 PM

Air System Information

Air System Name **76 2E ESC2 / 2E Rang. 255 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **357.5** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E ESC2 / 2E Rang. 255	76	76	0.21	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E ESC2 / 2E Rang. 255	0.0	January 12:00	2.0	357.5

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E ESC2 / 2E Rang. 255						
2E ESC2 / 2E Rang. 255	0.0	January 12:00	76	2.0	357.5	0.21

Air System Heat Balance Summary for 76 2E ESC2 / 2E Rang. 255 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:51 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	-	-	-	2047	0
Plenum Load	-	-	-	-	0	0
Return Fan Load	-	-	-	76 CFM	0	-
Ventilation Load	-	-	-	0 CFM	0	0
Supply Fan Load	-	-	-	76 CFM	0	-
Zone Fan Coil Fans Load	-	-	-	-	0	-
>> Total System Loads	-	-	-	-	2047	0
Central Heating Coil	-	-	-	-	2047	-
>> Total Conditioning	-	-	-	-	2047	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	376 sqft	-	-	376 sqft	840	-
Roof Convection	0 sqft	-	-	0 sqft	0	-
Window Convection	16 sqft	-	-	16 sqft	181	-
Skylight Convection	0 sqft	-	-	0 sqft	0	-
Door Convection	0 sqft	-	-	0 sqft	0	-
Floor Convection	357 sqft	-	-	357 sqft	181	-
Interior Wall Convection	706 sqft	-	-	706 sqft	309	-
Ceiling Convection	357 sqft	-	-	357 sqft	269	-
Overhead Lighting Convection	-	-	-	0 W	0	-
Task Lighting Convection	-	-	-	0 W	0	-
Electric Equipment Convection	-	-	-	0 W	0	-
People Convection	-	-	-	0	0	0
Infiltration	-	-	-	0 CFM	0	0
Miscellaneous Equipment	-	-	-	-	0	0
Air Internal Energy Change	-	-	-	-	0	0
Safety Factor	15% / 15%	-	-	15%	267	0
>> Total Zone Loads	-	-	-	-	2047	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 76 2E ESC2 / 2E Rang. 255 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:51 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	0	400	0	0
Vent - Return Mixing	Outlet	70.0	0.00026	76	400	-	-
Central Heating Coil	Outlet	94.9	0.00026	76	400	2047	-
Supply Fan	Outlet	94.9	0.00026	76	400	0	-
Cold Supply Duct	Outlet	94.9	0.00026	76	400	-	-
Zone Air	-	70.0	0.00026	76	400	-2047	0
Return Air	Outlet	70.0	0.00026	76	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E ESC2 / 2E Rang. 255	-2047	Heating	-2047	70.0	76	400	0	0

Air System Sizing Summary for 77 2E ESC3 et 2E Rang. 254 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:51 PM

Air System Information

Air System Name ... **77 2E ESC3 et 2E Rang. 254 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **724.5** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Heating Coil Sizing Data

Max coil load **2.1** MBH
Coil CFM at Design Heating **77** CFM
Max coil CFM **77** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **2.9**
Ent. DB / Lvg DB **70.0 / 94.9** F

Supply Fan Sizing Data

Design CFM **77** CFM
Design CFM/sqft **0.11** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **0** CFM
CFM/sqft **0.00** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 77 2E ESC3 et 2E Rang. 254 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name ... **77 2E ESC3 et 2E Rang. 254 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **724.5** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E ESC3 et 2E Rang. 254	77	77	0.11	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E ESC3 et 2E Rang. 254	0.0	April 14:00	2.1	724.5

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E ESC3 et 2E Rang. 254						
2E ESC3 et 2E Rang. 254	0.0	April 14:00	77	2.1	724.5	0.11

Air System Heat Balance Summary for 77 2E ESC3 et 2E Rang. 254 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	-	-	-	2069	0
Plenum Load	-	-	-	-	0	0
Return Fan Load	-	-	-	77 CFM	0	-
Ventilation Load	-	-	-	0 CFM	0	0
Supply Fan Load	-	-	-	77 CFM	0	-
Zone Fan Coil Fans Load	-	-	-	-	0	-
>> Total System Loads	-	-	-	-	2069	0
Central Heating Coil	-	-	-	-	2069	-
>> Total Conditioning	-	-	-	-	2069	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	398 sqft	-	-	398 sqft	811	-
Roof Convection	0 sqft	-	-	0 sqft	0	-
Window Convection	16 sqft	-	-	16 sqft	178	-
Skylight Convection	0 sqft	-	-	0 sqft	0	-
Door Convection	0 sqft	-	-	0 sqft	0	-
Floor Convection	724 sqft	-	-	724 sqft	196	-
Interior Wall Convection	970 sqft	-	-	970 sqft	304	-
Ceiling Convection	724 sqft	-	-	724 sqft	313	-
Overhead Lighting Convection	-	-	-	0 W	0	-
Task Lighting Convection	-	-	-	0 W	0	-
Electric Equipment Convection	-	-	-	0 W	0	-
People Convection	-	-	-	0	0	0
Infiltration	-	-	-	0 CFM	0	0
Miscellaneous Equipment	-	-	-	-	0	0
Air Internal Energy Change	-	-	-	-	0	0
Safety Factor	15% / 15%	-	-	15%	270	0
>> Total Zone Loads	-	-	-	-	2071	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 77 2E ESC3 et 2E Rang. 254 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:51 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	0	400	0	0
Vent - Return Mixing	Outlet	70.0	0.00026	77	400	-	-
Central Heating Coil	Outlet	94.9	0.00026	77	400	2069	-
Supply Fan	Outlet	94.9	0.00026	77	400	0	-
Cold Supply Duct	Outlet	94.9	0.00026	77	400	-	-
Zone Air	-	70.0	0.00026	77	400	-2069	0
Return Air	Outlet	70.0	0.00026	77	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E ESC3 et 2E Rang. 254	-2069	Heating	-2069	70.0	77	400	0	0

Air System Sizing Summary for 79 3E ESC1 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **79 3E ESC1 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **268.5** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Heating Coil Sizing Data

Max coil load **1.9** MBH
Coil CFM at Design Heating **71** CFM
Max coil CFM **71** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **7.1**
Ent. DB / Lvg DB **70.0 / 94.9** F

Supply Fan Sizing Data

Design CFM **71** CFM
Design CFM/sqft **0.27** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **0** CFM
CFM/sqft **0.00** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 79 3E ESC1 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **79 3E ESC1 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **268.5** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
3E ESC1	71	71	0.27	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
3E ESC1	0.0	February 13:00	1.9	268.5

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
3E ESC1						
3E ESC1	0.0	February 13:00	71	1.9	268.5	0.27

Air System Heat Balance Summary for 79 3E ESC1 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	-	-	-	1917	0
Plenum Load	-	-	-	-	0	0
Return Fan Load	-	-	-	71 CFM	0	-
Ventilation Load	-	-	-	0 CFM	0	0
Supply Fan Load	-	-	-	71 CFM	0	-
Zone Fan Coil Fans Load	-	-	-	-	0	-
>> Total System Loads	-	-	-	-	1917	0
Central Heating Coil	-	-	-	-	1917	-
>> Total Conditioning	-	-	-	-	1917	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	345 sqft	-	-	345 sqft	834	-
Roof Convection	0 sqft	-	-	0 sqft	0	-
Window Convection	16 sqft	-	-	16 sqft	180	-
Skylight Convection	0 sqft	-	-	0 sqft	0	-
Door Convection	0 sqft	-	-	0 sqft	0	-
Floor Convection	269 sqft	-	-	269 sqft	184	-
Interior Wall Convection	362 sqft	-	-	362 sqft	208	-
Ceiling Convection	269 sqft	-	-	269 sqft	263	-
Overhead Lighting Convection	-	-	-	0 W	0	-
Task Lighting Convection	-	-	-	0 W	0	-
Electric Equipment Convection	-	-	-	0 W	0	-
People Convection	-	-	-	0	0	0
Infiltration	-	-	-	0 CFM	0	0
Miscellaneous Equipment	-	-	-	-	0	0
Air Internal Energy Change	-	-	-	-	0	0
Safety Factor	15% / 15%	-	-	15%	250	0
>> Total Zone Loads	-	-	-	-	1919	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 79 3E ESC1 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	0	400	0	0
Vent - Return Mixing	Outlet	70.0	0.00026	71	400	-	-
Central Heating Coil	Outlet	94.9	0.00026	71	400	1917	-
Supply Fan	Outlet	94.9	0.00026	71	400	0	-
Cold Supply Duct	Outlet	94.9	0.00026	71	400	-	-
Zone Air	-	70.0	0.00026	71	400	-1917	0
Return Air	Outlet	70.0	0.00026	71	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
3E ESC1	-1917	Heating	-1917	70.0	71	400	0	0

Air System Sizing Summary for 80 3E ESC2 350 / 3E Rang. 355 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **80 3E ESC2 350 / 3E Rang. 355 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **352.0** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Heating Coil Sizing Data

Max coil load **2.1** MBH
Coil CFM at Design Heating **77** CFM
Max coil CFM **77** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **5.8**
Ent. DB / Lvg DB **70.0 / 94.8** F

Supply Fan Sizing Data

Design CFM **77** CFM
Design CFM/sqft **0.22** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **0** CFM
CFM/sqft **0.00** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 80 3E ESC2 350 / 3E Rang. 355 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **80 3E ESC2 350 / 3E Rang. 355 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **352.0** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
3E ESC2 350 / 3E Rang. 355	77	77	0.22	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
3E ESC2 350 / 3E Rang. 355	0.0	January 12:00	2.1	352.0

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
3E ESC2 350 / 3E Rang. 355						
3E ESC2 350 / 3E Rang. 355	0.0	January 12:00	77	2.1	352.0	0.22

Air System Heat Balance Summary for 80 3E ESC2 350 / 3E Rang. 355 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	-	-	-	2051	0
Plenum Load	-	-	-	-	0	0
Return Fan Load	-	-	-	77 CFM	0	-
Ventilation Load	-	-	-	0 CFM	0	0
Supply Fan Load	-	-	-	77 CFM	0	-
Zone Fan Coil Fans Load	-	-	-	-	0	-
>> Total System Loads	-	-	-	-	2051	0
Central Heating Coil	-	-	-	-	2051	-
>> Total Conditioning	-	-	-	-	2051	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	376 sqft	-	-	376 sqft	845	-
Roof Convection	0 sqft	-	-	0 sqft	0	-
Window Convection	16 sqft	-	-	16 sqft	181	-
Skylight Convection	0 sqft	-	-	0 sqft	0	-
Door Convection	0 sqft	-	-	0 sqft	0	-
Floor Convection	352 sqft	-	-	352 sqft	180	-
Interior Wall Convection	706 sqft	-	-	706 sqft	315	-
Ceiling Convection	352 sqft	-	-	352 sqft	271	-
Overhead Lighting Convection	-	-	-	0 W	0	-
Task Lighting Convection	-	-	-	0 W	0	-
Electric Equipment Convection	-	-	-	0 W	0	-
People Convection	-	-	-	0	0	0
Infiltration	-	-	-	0 CFM	0	0
Miscellaneous Equipment	-	-	-	-	0	0
Air Internal Energy Change	-	-	-	-	0	0
Safety Factor	15% / 15%	-	-	15%	269	0
>> Total Zone Loads	-	-	-	-	2061	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 80 3E ESC2 350 / 3E Rang. 355 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:51 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	0	400	0	0
Vent - Return Mixing	Outlet	70.0	0.00026	77	400	-	-
Central Heating Coil	Outlet	94.8	0.00026	77	400	2051	-
Supply Fan	Outlet	94.8	0.00026	77	400	0	-
Cold Supply Duct	Outlet	94.8	0.00026	77	400	-	-
Zone Air	-	70.0	0.00026	77	400	-2051	0
Return Air	Outlet	70.0	0.00026	77	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
3E ESC2 350 / 3E Rang. 355	-2051	Heating	-2051	70.0	77	400	0	0

Air System Sizing Summary for 81 3E ESC3 / 3E Rang. 354 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:51 PM

Air System Information

Air System Name **81 3E ESC3 / 3E Rang. 354 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **724.5** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Heating Coil Sizing Data

Max coil load **2.1** MBH
Coil CFM at Design Heating **77** CFM
Max coil CFM **77** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **2.8**
Ent. DB / Lvg DB **70.0 / 94.8** F

Supply Fan Sizing Data

Design CFM **77** CFM
Design CFM/sqft **0.11** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **0** CFM
CFM/sqft **0.00** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 81 3E ESC3 / 3E Rang. 354 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **81 3E ESC3 / 3E Rang. 354 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **724.5** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
3E ESC3 / 3E Rang. 354	77	77	0.11	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
3E ESC3 / 3E Rang. 354	0.0	July 14:00	2.1	724.5

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
3E ESC3 / 3E Rang. 354						
3E ESC3 / 3E Rang. 354	0.0	July 14:00	77	2.1	724.5	0.11

Air System Heat Balance Summary for 81 3E ESC3 / 3E Rang. 354 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	-	-	-	2063	0
Plenum Load	-	-	-	-	0	0
Return Fan Load	-	-	-	77 CFM	0	-
Ventilation Load	-	-	-	0 CFM	0	0
Supply Fan Load	-	-	-	77 CFM	0	-
Zone Fan Coil Fans Load	-	-	-	-	0	-
>> Total System Loads	-	-	-	-	2063	0
Central Heating Coil	-	-	-	-	2063	-
>> Total Conditioning	-	-	-	-	2063	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	398 sqft	-	-	398 sqft	812	-
Roof Convection	0 sqft	-	-	0 sqft	0	-
Window Convection	16 sqft	-	-	16 sqft	178	-
Skylight Convection	0 sqft	-	-	0 sqft	0	-
Door Convection	0 sqft	-	-	0 sqft	0	-
Floor Convection	724 sqft	-	-	724 sqft	194	-
Interior Wall Convection	970 sqft	-	-	970 sqft	304	-
Ceiling Convection	724 sqft	-	-	724 sqft	317	-
Overhead Lighting Convection	-	-	-	0 W	0	-
Task Lighting Convection	-	-	-	0 W	0	-
Electric Equipment Convection	-	-	-	0 W	0	-
People Convection	-	-	-	0	0	0
Infiltration	-	-	-	0 CFM	0	0
Miscellaneous Equipment	-	-	-	-	0	0
Air Internal Energy Change	-	-	-	-	0	0
Safety Factor	15% / 15%	-	-	15%	271	0
>> Total Zone Loads	-	-	-	-	2076	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 81 3E ESC3 / 3E Rang. 354 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	0	400	0	0
Vent - Return Mixing	Outlet	70.0	0.00026	77	400	-	-
Central Heating Coil	Outlet	94.8	0.00026	77	400	2063	-
Supply Fan	Outlet	94.8	0.00026	77	400	0	-
Cold Supply Duct	Outlet	94.8	0.00026	77	400	-	-
Zone Air	-	70.0	0.00026	77	400	-2063	0
Return Air	Outlet	70.0	0.00026	77	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
3E ESC3 / 3E Rang. 354	-2063	Heating	-2063	70.0	77	400	0	0

Air System Sizing Summary for 82 3E Rang. 356 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **82 3E Rang. 356 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **336.6** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Heating Coil Sizing Data

Max coil load **0.2** MBH
Coil CFM at Design Heating **8** CFM
Max coil CFM **8** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **0.6**
Ent. DB / Lvg DB **70.0 / 92.5** F

Supply Fan Sizing Data

Design CFM **8** CFM
Design CFM/sqft **0.02** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **0** CFM
CFM/sqft **0.00** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 82 3E Rang. 356 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **82 3E Rang. 356 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **336.6** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
3E Rang. 356	8	8	0.02	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
3E Rang. 356	0.0	February 1:00	0.2	336.6

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
3E Rang. 356						
3E Rang. 356	0.0	February 1:00	8	0.2	336.6	0.02

Air System Heat Balance Summary for 82 3E Rang. 356 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	-	-	-	194	0
Plenum Load	-	-	-	-	0	0
Return Fan Load	-	-	-	8 CFM	0	-
Ventilation Load	-	-	-	0 CFM	0	0
Supply Fan Load	-	-	-	8 CFM	0	-
Zone Fan Coil Fans Load	-	-	-	-	0	-
>> Total System Loads	-	-	-	-	194	0
Central Heating Coil	-	-	-	-	194	-
>> Total Conditioning	-	-	-	-	194	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	0 sqft	-	-	0 sqft	0	-
Roof Convection	0 sqft	-	-	0 sqft	0	-
Window Convection	0 sqft	-	-	0 sqft	0	-
Skylight Convection	0 sqft	-	-	0 sqft	0	-
Door Convection	0 sqft	-	-	0 sqft	0	-
Floor Convection	337 sqft	-	-	337 sqft	33	-
Interior Wall Convection	806 sqft	-	-	806 sqft	87	-
Ceiling Convection	337 sqft	-	-	337 sqft	66	-
Overhead Lighting Convection	-	-	-	0 W	0	-
Task Lighting Convection	-	-	-	0 W	0	-
Electric Equipment Convection	-	-	-	0 W	0	-
People Convection	-	-	-	0	0	0
Infiltration	-	-	-	0 CFM	0	0
Miscellaneous Equipment	-	-	-	-	0	0
Air Internal Energy Change	-	-	-	-	0	0
Safety Factor	15% / 15%	-	-	15%	28	0
>> Total Zone Loads	-	-	-	-	214	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 82 3E Rang. 356 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	0	400	0	0
Vent - Return Mixing	Outlet	70.0	0.00026	8	400	-	-
Central Heating Coil	Outlet	92.5	0.00026	8	400	194	-
Supply Fan	Outlet	92.5	0.00026	8	400	0	-
Cold Supply Duct	Outlet	92.5	0.00026	8	400	-	-
Zone Air	-	70.0	0.00026	8	400	-194	0
Return Air	Outlet	70.0	0.00026	8	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
3E Rang. 356	-194	Heating	-194	70.0	8	400	0	0

Air System Sizing Summary for 83 4E ESC1 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **83 4E ESC1 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **268.5** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Heating Coil Sizing Data

Max coil load **2.7** MBH
Coil CFM at Design Heating **101** CFM
Max coil CFM **101** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **10.2**
Ent. DB / Lvg DB **70.0 / 95.2** F

Supply Fan Sizing Data

Design CFM **101** CFM
Design CFM/sqft **0.38** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **0** CFM
CFM/sqft **0.00** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 83 4E ESC1 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **83 4E ESC1 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **268.5** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E ESC1	101	101	0.38	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E ESC1	0.0	March 12:00	2.7	268.5

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E ESC1						
4E ESC1	0.0	March 12:00	101	2.7	268.5	0.38

Air System Heat Balance Summary for 83 4E ESC1 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	-	-	-	2736	0
Plenum Load	-	-	-	-	0	0
Return Fan Load	-	-	-	101 CFM	0	-
Ventilation Load	-	-	-	0 CFM	0	0
Supply Fan Load	-	-	-	101 CFM	0	-
Zone Fan Coil Fans Load	-	-	-	-	0	-
>> Total System Loads	-	-	-	-	2736	0
Central Heating Coil	-	-	-	-	2736	-
>> Total Conditioning	-	-	-	-	2736	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	381 sqft	-	-	381 sqft	983	-
Roof Convection	0 sqft	-	-	0 sqft	0	-
Window Convection	16 sqft	-	-	16 sqft	180	-
Skylight Convection	0 sqft	-	-	0 sqft	0	-
Door Convection	0 sqft	-	-	0 sqft	0	-
Floor Convection	269 sqft	-	-	269 sqft	237	-
Interior Wall Convection	397 sqft	-	-	397 sqft	275	-
Ceiling Convection	269 sqft	-	-	269 sqft	684	-
Overhead Lighting Convection	-	-	-	0 W	0	-
Task Lighting Convection	-	-	-	0 W	0	-
Electric Equipment Convection	-	-	-	0 W	0	-
People Convection	-	-	-	0	0	0
Infiltration	-	-	-	0 CFM	0	0
Miscellaneous Equipment	-	-	-	-	0	0
Air Internal Energy Change	-	-	-	-	0	0
Safety Factor	15% / 15%	-	-	15%	354	0
>> Total Zone Loads	-	-	-	-	2711	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 83 4E ESC1 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	0	400	0	0
Vent - Return Mixing	Outlet	70.0	0.00026	101	400	-	-
Central Heating Coil	Outlet	95.2	0.00026	101	400	2736	-
Supply Fan	Outlet	95.2	0.00026	101	400	0	-
Cold Supply Duct	Outlet	95.2	0.00026	101	400	-	-
Zone Air	-	70.0	0.00026	101	400	-2736	0
Return Air	Outlet	70.0	0.00026	101	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E ESC1	-2736	Heating	-2736	70.0	101	400	0	0

Air System Sizing Summary for 84 4E ESC2 / 4E Conciergerie 455 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **84 4E ESC2 / 4E Conciergerie 455 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **354.8** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Heating Coil Sizing Data

Max coil load **3.1** MBH
Coil CFM at Design Heating **114** CFM
Max coil CFM **114** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **8.7**
Ent. DB / Lvg DB **70.0 / 95.2** F

Supply Fan Sizing Data

Design CFM **114** CFM
Design CFM/sqft **0.32** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **0** CFM
CFM/sqft **0.00** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 84 4E ESC2 / 4E Conciergerie 455 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **84 4E ESC2 / 4E Conciergerie 455 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **354.8** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E ESC2 / 4E Conciergerie 455	114	114	0.32	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E ESC2 / 4E Conciergerie 455	0.0	March 14:00	3.1	354.8

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E ESC2 / 4E Conciergerie 455						
4E ESC2 / 4E Conciergerie 455	0.0	March 14:00	114	3.1	354.8	0.32

Air System Heat Balance Summary for 84 4E ESC2 / 4E Conciergerie 455 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	-	-	-	3100	0
Plenum Load	-	-	-	-	0	0
Return Fan Load	-	-	-	114 CFM	0	-
Ventilation Load	-	-	-	0 CFM	0	0
Supply Fan Load	-	-	-	114 CFM	0	-
Zone Fan Coil Fans Load	-	-	-	-	0	-
>> Total System Loads	-	-	-	-	3100	0
Central Heating Coil	-	-	-	-	3100	-
>> Total Conditioning	-	-	-	-	3100	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	415 sqft	-	-	415 sqft	1003	-
Roof Convection	0 sqft	-	-	0 sqft	0	-
Window Convection	16 sqft	-	-	16 sqft	181	-
Skylight Convection	0 sqft	-	-	0 sqft	0	-
Door Convection	0 sqft	-	-	0 sqft	0	-
Floor Convection	355 sqft	-	-	355 sqft	247	-
Interior Wall Convection	775 sqft	-	-	775 sqft	431	-
Ceiling Convection	355 sqft	-	-	355 sqft	802	-
Overhead Lighting Convection	-	-	-	0 W	0	-
Task Lighting Convection	-	-	-	0 W	0	-
Electric Equipment Convection	-	-	-	0 W	0	-
People Convection	-	-	-	0	0	0
Infiltration	-	-	-	0 CFM	0	0
Miscellaneous Equipment	-	-	-	-	0	0
Air Internal Energy Change	-	-	-	-	0	0
Safety Factor	15% / 15%	-	-	15%	399	0
>> Total Zone Loads	-	-	-	-	3062	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 84 4E ESC2 / 4E Conciergerie 455 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	0	400	0	0
Vent - Return Mixing	Outlet	70.0	0.00026	114	400	-	-
Central Heating Coil	Outlet	95.2	0.00026	114	400	3100	-
Supply Fan	Outlet	95.2	0.00026	114	400	0	-
Cold Supply Duct	Outlet	95.2	0.00026	114	400	-	-
Zone Air	-	70.0	0.00026	114	400	-3100	0
Return Air	Outlet	70.0	0.00026	114	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E ESC2 / 4E Conciergerie 455	-3100	Heating	-3100	70.0	114	400	0	0

Air System Sizing Summary for 85 4E ESC3 / 4E Rang. 454 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **85 4E ESC3 / 4E Rang. 454 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **724.5** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Heating Coil Sizing Data

Max coil load **3.9** MBH
Coil CFM at Design Heating **141** CFM
Max coil CFM **141** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **5.3**
Ent. DB / Lvg DB **70.0 / 95.4** F

Supply Fan Sizing Data

Design CFM **141** CFM
Design CFM/sqft **0.20** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **0** CFM
CFM/sqft **0.00** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 85 4E ESC3 / 4E Rang. 454 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **85 4E ESC3 / 4E Rang. 454 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **724.5** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E ESC3 / 4E Rang. 454	141	141	0.20	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E ESC3 / 4E Rang. 454	0.0	November 13:00	3.8	724.5

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E ESC3 / 4E Rang. 454						
4E ESC3 / 4E Rang. 454	0.0	November 13:00	141	3.8	724.5	0.20

Air System Heat Balance Summary for 85 4E ESC3 / 4E Rang. 454 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	-	-	-	3872	0
Plenum Load	-	-	-	-	0	0
Return Fan Load	-	-	-	141 CFM	0	-
Ventilation Load	-	-	-	0 CFM	0	0
Supply Fan Load	-	-	-	141 CFM	0	-
Zone Fan Coil Fans Load	-	-	-	-	0	-
>> Total System Loads	-	-	-	-	3872	0
Central Heating Coil	-	-	-	-	3872	-
>> Total Conditioning	-	-	-	-	3872	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	439 sqft	-	-	439 sqft	995	-
Roof Convection	0 sqft	-	-	0 sqft	0	-
Window Convection	16 sqft	-	-	16 sqft	180	-
Skylight Convection	0 sqft	-	-	0 sqft	0	-
Door Convection	0 sqft	-	-	0 sqft	0	-
Floor Convection	724 sqft	-	-	724 sqft	353	-
Interior Wall Convection	1066 sqft	-	-	1066 sqft	499	-
Ceiling Convection	724 sqft	-	-	724 sqft	1279	-
Overhead Lighting Convection	-	-	-	0 W	0	-
Task Lighting Convection	-	-	-	0 W	0	-
Electric Equipment Convection	-	-	-	0 W	0	-
People Convection	-	-	-	0	0	0
Infiltration	-	-	-	0 CFM	0	0
Miscellaneous Equipment	-	-	-	-	0	0
Air Internal Energy Change	-	-	-	-	0	0
Safety Factor	15% / 15%	-	-	15%	496	0
>> Total Zone Loads	-	-	-	-	3803	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 85 4E ESC3 / 4E Rang. 454 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	0	400	0	0
Vent - Return Mixing	Outlet	70.0	0.00026	141	400	-	-
Central Heating Coil	Outlet	95.4	0.00026	141	400	3872	-
Supply Fan	Outlet	95.4	0.00026	141	400	0	-
Cold Supply Duct	Outlet	95.4	0.00026	141	400	-	-
Zone Air	-	70.0	0.00026	141	400	-3872	0
Return Air	Outlet	70.0	0.00026	141	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E ESC3 / 4E Rang. 454	-3872	Heating	-3872	70.0	141	400	0	0

Air System Sizing Summary for 86 4E Rang. 456 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **86 4E Rang. 456 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **336.6** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Heating Coil Sizing Data

Max coil load **0.8** MBH
Coil CFM at Design Heating **28** CFM
Max coil CFM **28** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **2.3**
Ent. DB / Lvg DB **70.0 / 95.2** F

Supply Fan Sizing Data

Design CFM **28** CFM
Design CFM/sqft **0.08** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **0** CFM
CFM/sqft **0.00** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 86 4E Rang. 456 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **86 4E Rang. 456 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **336.6** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E Rang. 456	28	28	0.08	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E Rang. 456	0.0	April 12:00	0.8	336.6

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E Rang. 456						
4E Rang. 456	0.0	April 12:00	28	0.8	336.6	0.08

Air System Heat Balance Summary for 86 4E Rang. 456 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	-	-	-	768	0
Plenum Load	-	-	-	-	0	0
Return Fan Load	-	-	-	28 CFM	0	-
Ventilation Load	-	-	-	0 CFM	0	0
Supply Fan Load	-	-	-	28 CFM	0	-
Zone Fan Coil Fans Load	-	-	-	-	0	-
>> Total System Loads	-	-	-	-	768	0
Central Heating Coil	-	-	-	-	768	-
>> Total Conditioning	-	-	-	-	768	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	0 sqft	-	-	0 sqft	0	-
Roof Convection	0 sqft	-	-	0 sqft	0	-
Window Convection	0 sqft	-	-	0 sqft	0	-
Skylight Convection	0 sqft	-	-	0 sqft	0	-
Door Convection	0 sqft	-	-	0 sqft	0	-
Floor Convection	337 sqft	-	-	337 sqft	65	-
Interior Wall Convection	885 sqft	-	-	885 sqft	223	-
Ceiling Convection	337 sqft	-	-	337 sqft	372	-
Overhead Lighting Convection	-	-	-	0 W	0	-
Task Lighting Convection	-	-	-	0 W	0	-
Electric Equipment Convection	-	-	-	0 W	0	-
People Convection	-	-	-	0	0	0
Infiltration	-	-	-	0 CFM	0	0
Miscellaneous Equipment	-	-	-	-	0	0
Air Internal Energy Change	-	-	-	-	0	0
Safety Factor	15% / 15%	-	-	15%	99	0
>> Total Zone Loads	-	-	-	-	759	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 86 4E Rang. 456 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	0	400	0	0
Vent - Return Mixing	Outlet	70.0	0.00026	28	400	-	-
Central Heating Coil	Outlet	95.2	0.00026	28	400	768	-
Supply Fan	Outlet	95.2	0.00026	28	400	0	-
Cold Supply Duct	Outlet	95.2	0.00026	28	400	-	-
Zone Air	-	70.0	0.00026	28	400	-768	0
Return Air	Outlet	70.0	0.00026	28	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E Rang. 456	-768	Heating	-768	70.0	28	400	0	0

Air System Sizing Summary for 87 RDC EAU REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:52 PM

Air System Information

Air System Name **87 RDC EAU REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **186.9** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Heating Coil Sizing Data

Max coil load **1.0** MBH
Coil CFM at Design Heating **37** CFM
Max coil CFM **37** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **5.4**
Ent. DB / Lvg DB **70.0 / 95.1** F

Supply Fan Sizing Data

Design CFM **37** CFM
Design CFM/sqft **0.20** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **0** CFM
CFM/sqft **0.00** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 87 RDC EAU REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:52 PM

Air System Information

Air System Name **87 RDC EAU REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **186.9** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC EAU	37	37	0.20	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC EAU	0.0	April 9:00	1.0	186.9

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC EAU						
RDC EAU	0.0	April 9:00	37	1.0	186.9	0.20

Air System Heat Balance Summary for 87 RDC EAU REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	-	-	-	1002	0
Plenum Load	-	-	-	-	0	0
Return Fan Load	-	-	-	37 CFM	0	-
Ventilation Load	-	-	-	0 CFM	0	0
Supply Fan Load	-	-	-	37 CFM	0	-
Zone Fan Coil Fans Load	-	-	-	-	0	-
>> Total System Loads	-	-	-	-	1002	0
Central Heating Coil	-	-	-	-	1002	-
>> Total Conditioning	-	-	-	-	1002	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	98 sqft	-	-	98 sqft	188	-
Roof Convection	0 sqft	-	-	0 sqft	0	-
Window Convection	0 sqft	-	-	0 sqft	0	-
Skylight Convection	0 sqft	-	-	0 sqft	0	-
Door Convection	0 sqft	-	-	0 sqft	0	-
Floor Convection	187 sqft	-	-	187 sqft	485	-
Interior Wall Convection	494 sqft	-	-	494 sqft	107	-
Ceiling Convection	187 sqft	-	-	187 sqft	86	-
Overhead Lighting Convection	-	-	-	0 W	0	-
Task Lighting Convection	-	-	-	0 W	0	-
Electric Equipment Convection	-	-	-	0 W	0	-
People Convection	-	-	-	0	0	0
Infiltration	-	-	-	0 CFM	0	0
Miscellaneous Equipment	-	-	-	-	0	0
Air Internal Energy Change	-	-	-	-	0	0
Safety Factor	15% / 15%	-	-	15%	130	0
>> Total Zone Loads	-	-	-	-	998	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 87 RDC EAU REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	0	400	0	0
Vent - Return Mixing	Outlet	70.0	0.00026	37	400	-	-
Central Heating Coil	Outlet	95.1	0.00026	37	400	1002	-
Supply Fan	Outlet	95.1	0.00026	37	400	0	-
Cold Supply Duct	Outlet	95.1	0.00026	37	400	-	-
Zone Air	-	70.0	0.00026	37	400	-1002	0
Return Air	Outlet	70.0	0.00026	37	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC EAU	-1002	Heating	-1002	70.0	37	400	0	0

Air System Sizing Summary for 88 RDC ESC1 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **88 RDC ESC1 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **268.5** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Heating Coil Sizing Data

Max coil load **4.0** MBH
Coil CFM at Design Heating **146** CFM
Max coil CFM **146** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **14.7**
Ent. DB / Lvg DB **70.0 / 95.1** F

Supply Fan Sizing Data

Design CFM **146** CFM
Design CFM/sqft **0.54** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **0** CFM
CFM/sqft **0.00** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 88 RDC ESC1 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **88 RDC ESC1 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **268.5** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC ESC1	146	146	0.54	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC ESC1	0.0	May 14:00	3.9	268.5

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC ESC1						
RDC ESC1	0.0	May 14:00	146	3.9	268.5	0.54

Air System Heat Balance Summary for 88 RDC ESC1 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	-	-	-	3950	0
Plenum Load	-	-	-	-	0	0
Return Fan Load	-	-	-	146 CFM	0	-
Ventilation Load	-	-	-	0 CFM	0	0
Supply Fan Load	-	-	-	146 CFM	0	-
Zone Fan Coil Fans Load	-	-	-	-	0	-
>> Total System Loads	-	-	-	-	3950	0
Central Heating Coil	-	-	-	-	3950	-
>> Total Conditioning	-	-	-	-	3950	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	341 sqft	-	-	341 sqft	954	-
Roof Convection	0 sqft	-	-	0 sqft	0	-
Window Convection	0 sqft	-	-	0 sqft	0	-
Skylight Convection	0 sqft	-	-	0 sqft	0	-
Door Convection	21 sqft	-	-	21 sqft	467	-
Floor Convection	269 sqft	-	-	269 sqft	1337	-
Interior Wall Convection	362 sqft	-	-	362 sqft	280	-
Ceiling Convection	269 sqft	-	-	269 sqft	378	-
Overhead Lighting Convection	-	-	-	0 W	0	-
Task Lighting Convection	-	-	-	0 W	0	-
Electric Equipment Convection	-	-	-	0 W	0	-
People Convection	-	-	-	0	0	0
Infiltration	-	-	-	0 CFM	0	0
Miscellaneous Equipment	-	-	-	-	0	0
Air Internal Energy Change	-	-	-	-	0	0
Safety Factor	15% / 15%	-	-	15%	512	0
>> Total Zone Loads	-	-	-	-	3928	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 88 RDC ESC1 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	0	400	0	0
Vent - Return Mixing	Outlet	70.0	0.00026	146	400	-	-
Central Heating Coil	Outlet	95.1	0.00026	146	400	3950	-
Supply Fan	Outlet	95.1	0.00026	146	400	0	-
Cold Supply Duct	Outlet	95.1	0.00026	146	400	-	-
Zone Air	-	70.0	0.00026	146	400	-3950	0
Return Air	Outlet	70.0	0.00026	146	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC ESC1	-3950	Heating	-3950	70.0	146	400	0	0

Air System Sizing Summary for 89 RDC ESC2 / RDC Conciergerie 155 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **89 RDC ESC2 / RDC Conciergerie 155 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **354.3** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Heating Coil Sizing Data

Max coil load **4.4** MBH
Coil CFM at Design Heating **161** CFM
Max coil CFM **161** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **12.3**
Ent. DB / Lvg DB **70.0 / 95.0** F

Supply Fan Sizing Data

Design CFM **161** CFM
Design CFM/sqft **0.45** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **0** CFM
CFM/sqft **0.00** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 89 RDC ESC2 / RDC Conciergerie 155 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **89 RDC ESC2 / RDC Conciergerie 155 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **354.3** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC ESC2 / RDC Conciergerie 155	161	161	0.45	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC ESC2 / RDC Conciergerie 155	0.0	July 11:00	4.3	354.3

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC ESC2 / RDC Conciergerie 155						
RDC ESC2 / RDC Conciergerie 155	0.0	July 11:00	161	4.3	354.3	0.45

Air System Heat Balance Summary for 89 RDC ESC2 / RDC Conciergerie 155 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	-	-	-	4353	0
Plenum Load	-	-	-	-	0	0
Return Fan Load	-	-	-	161 CFM	0	-
Ventilation Load	-	-	-	0 CFM	0	0
Supply Fan Load	-	-	-	161 CFM	0	-
Zone Fan Coil Fans Load	-	-	-	-	0	-
>> Total System Loads	-	-	-	-	4353	0
Central Heating Coil	-	-	-	-	4353	-
>> Total Conditioning	-	-	-	-	4353	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	372 sqft	-	-	372 sqft	941	-
Roof Convection	0 sqft	-	-	0 sqft	0	-
Window Convection	0 sqft	-	-	0 sqft	0	-
Skylight Convection	0 sqft	-	-	0 sqft	0	-
Door Convection	21 sqft	-	-	21 sqft	496	-
Floor Convection	354 sqft	-	-	354 sqft	1540	-
Interior Wall Convection	706 sqft	-	-	706 sqft	392	-
Ceiling Convection	354 sqft	-	-	354 sqft	400	-
Overhead Lighting Convection	-	-	-	0 W	0	-
Task Lighting Convection	-	-	-	0 W	0	-
Electric Equipment Convection	-	-	-	0 W	0	-
People Convection	-	-	-	0	0	0
Infiltration	-	-	-	0 CFM	0	0
Miscellaneous Equipment	-	-	-	-	0	0
Air Internal Energy Change	-	-	-	-	0	0
Safety Factor	15% / 15%	-	-	15%	565	0
>> Total Zone Loads	-	-	-	-	4334	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 89 RDC ESC2 / RDC Conciergerie 155 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	0	400	0	0
Vent - Return Mixing	Outlet	70.0	0.00026	161	400	-	-
Central Heating Coil	Outlet	95.0	0.00026	161	400	4353	-
Supply Fan	Outlet	95.0	0.00026	161	400	0	-
Cold Supply Duct	Outlet	95.0	0.00026	161	400	-	-
Zone Air	-	70.0	0.00026	161	400	-4353	0
Return Air	Outlet	70.0	0.00026	161	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC ESC2 / RDC Conciergerie 155	-4353	Heating	-4353	70.0	161	400	0	0

Air System Sizing Summary for 01 2E 201 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **01 2E 201 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **865.1** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.6** Tons
Total coil load **18.9** MBH
Sensible coil load **17.7** MBH
Coil CFM at peak load **1006** CFM
Sum of peak zone CFM **1006** CFM
Sensible heat ratio **0.934**
CFM/Ton **637.5**
sqft/Ton **548.0**
BTU/(hr sqft) **21.9**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **September 15:00**
OA DB / WB **80.1 / 68.8** F
Entering DB / WB **75.1 / 64.6** F
Leaving DB / WB **59.1 / 58.6** F
Resulting RH **56** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **11.9** MBH
Coil CFM at Design Heating **1006** CFM
Max coil CFM **1006** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **13.8**
Ent. DB / Lvg DB **68.3 / 79.3** F

Supply Fan Sizing Data

Design CFM **1006** CFM
Design CFM/sqft **1.16** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.12** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 01 2E 201 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **01 2E 201 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **865.1** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 201	1006	1006	1.16	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 201	18.4	September 15:00	9.9	865.1

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 201						
2E 201	18.4	September 15:00	1006	9.9	865.1	1.16

Air System Heat Balance Summary for 01 2E 201 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:52 PM

Table 1. System Loads

	DESIGN COOLING - SEPTEMBER 15:00			DESIGN HEATING		
	OA DB / WB 80.1 F / 68.8 F			OA DB / WB -20.0 F / -20.0 F		
COMPONENT LOADS	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	17587	81	-	10086	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	1006 CFM	0	-	1006 CFM	0	-
Ventilation Load	100 CFM	103	992	100 CFM	1841	0
Supply Fan Load	1006 CFM	0	-	1006 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	17690	1072	-	11927	0
Central Cooling Coil	-	17701	1243	-	0	0
Central Heating Coil	-	0	-	-	11932	-
>> Total Conditioning	-	17701	1243	-	11932	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

	DESIGN COOLING - SEPTEMBER 15:00			DESIGN HEATING		
	OA DB / WB 80.1 F / 68.8 F			OA DB / WB -20.0 F / -20.0 F		
Zone Heat Balance Component	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	291 sqft	1173	-	291 sqft	704	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	761	-	66 sqft	653	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	542	-	47 sqft	465	-
Floor Convection	865 sqft	5510	-	865 sqft	683	-
Interior Wall Convection	954 sqft	3419	-	954 sqft	511	-
Ceiling Convection	865 sqft	4610	-	865 sqft	891	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	40 CFM	4722	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	2402	0	15%	1294	0
>> Total Zone Loads	-	18417	0	-	9924	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 01 2E 201 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:53 PM

DESIGN COOLING DAY AT SEPTEMBER 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	80.0	0.01255	100	400	103	992
Air-to-Air Energy Recovery	Outlet	76.0	0.01255	100	400	448	0
Vent - Return Mixing	Outlet	75.1	0.01066	1006	400	-	-
Central Cooling Coil	Outlet	59.1	0.01041	1006	400	17701	1243
Central Heating Coil	Outlet	59.1	0.01041	1006	400	0	-
Supply Fan	Outlet	59.1	0.01041	1006	400	0	-
Cold Supply Duct	Outlet	59.1	0.01041	1006	400	-	-
Zone Air	-	75.0	0.01043	1006	400	17587	81
Return Air	Outlet	75.0	0.01045	1006	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 201	17586	Cooling	17587	75.0	1006	400	0	0

System Psychrometrics for 01 2E 201 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:53 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-1841	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	100	400	-7870	0
Vent - Return Mixing	Outlet	68.3	0.00026	1006	400	-	-
Central Cooling Coil	Outlet	68.3	0.00026	1006	400	0	0
Central Heating Coil	Outlet	79.3	0.00026	1006	400	11932	-
Supply Fan	Outlet	79.3	0.00026	1006	400	0	-
Cold Supply Duct	Outlet	79.3	0.00026	1006	400	-	-
Zone Air	-	70.0	0.00026	1006	400	-10086	0
Return Air	Outlet	70.0	0.00026	1006	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 201	-10086	Heating	-10086	70.0	1006	400	0	0

Air System Sizing Summary for 02 2E 202 à 204 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:53 PM

Air System Information

Air System Name **02 2E 202 à 204 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **1943.0** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **2.9** Tons
Total coil load **34.8** MBH
Sensible coil load **31.5** MBH
Coil CFM at peak load **1798** CFM
Sum of peak zone CFM **1798** CFM
Sensible heat ratio **0.905**
CFM/Ton **619.9**
sqft/Ton **669.7**
BTU/(hr sqft) **17.9**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **September 15:00**
OA DB / WB **80.1 / 68.8** F
Entering DB / WB **75.2 / 64.9** F
Leaving DB / WB **59.2 / 58.8** F
Resulting RH **57** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **23.9** MBH
Coil CFM at Design Heating **1798** CFM
Max coil CFM **1798** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **12.3**
Ent. DB / Lvg DB **67.1 / 79.5** F

Supply Fan Sizing Data

Design CFM **1798** CFM
Design CFM/sqft **0.93** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **300** CFM
CFM/sqft **0.15** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 02 2E 202 à 204 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **02 2E 202 à 204 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **1943.0** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 202 à 204	1798	1798	0.93	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 202 à 204	32.9	September 15:00	18.0	1943.0

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 202 à 204						
2E 202 à 204	32.9	September 15:00	1798	18.0	1943.0	0.93

Air System Heat Balance Summary for 02 2E 202 à 204 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

	DESIGN COOLING - SEPTEMBER 15:00			DESIGN HEATING		
	OA DB / WB 80.1 F / 68.8 F			OA DB / WB -20.0 F / -20.0 F		
COMPONENT LOADS	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	31182	120	-	18387	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	1798 CFM	0	-	1798 CFM	0	-
Ventilation Load	300 CFM	308	2886	300 CFM	5522	0
Supply Fan Load	1798 CFM	0	-	1798 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	31490	3006	-	23909	0
Central Cooling Coil	-	31522	3291	-	0	0
Central Heating Coil	-	0	-	-	23925	-
>> Total Conditioning	-	31522	3291	-	23925	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

	DESIGN COOLING - SEPTEMBER 15:00			DESIGN HEATING		
	OA DB / WB 80.1 F / 68.8 F			OA DB / WB -20.0 F / -20.0 F		
Zone Heat Balance Component	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	521 sqft	1729	-	521 sqft	1211	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	116 sqft	1244	-	116 sqft	1153	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	95 sqft	1019	-	95 sqft	944	-
Floor Convection	1943 sqft	12326	-	1943 sqft	1343	-
Interior Wall Convection	1281 sqft	3559	-	1281 sqft	608	-
Ceiling Convection	1943 sqft	8739	-	1943 sqft	1836	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	73 CFM	8528	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	4292	0	15%	2344	0
>> Total Zone Loads	-	32908	0	-	17967	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 02 2E 202 à 204 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT SEPTEMBER 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	80.0	0.01255	300	400	308	2886
Air-to-Air Energy Recovery	Outlet	76.0	0.01255	300	400	1344	0
Vent - Return Mixing	Outlet	75.2	0.01086	1798	400	-	-
Central Cooling Coil	Outlet	59.2	0.01048	1798	400	31522	3291
Central Heating Coil	Outlet	59.2	0.01048	1798	400	0	-
Supply Fan	Outlet	59.2	0.01048	1798	400	0	-
Cold Supply Duct	Outlet	59.2	0.01048	1798	400	-	-
Zone Air	-	75.0	0.01049	1798	400	31182	120
Return Air	Outlet	75.0	0.01052	1798	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 202 à 204	31180	Cooling	31182	75.0	1798	400	0	0

System Psychrometrics for 02 2E 202 à 204 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	300	400	-5522	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	300	400	-23609	0
Vent - Return Mixing	Outlet	67.1	0.00026	1798	400	-	-
Central Cooling Coil	Outlet	67.1	0.00026	1798	400	0	0
Central Heating Coil	Outlet	79.5	0.00026	1798	400	23925	-
Supply Fan	Outlet	79.5	0.00026	1798	400	0	-
Cold Supply Duct	Outlet	79.5	0.00026	1798	400	-	-
Zone Air	-	70.0	0.00026	1798	400	-18387	0
Return Air	Outlet	70.0	0.00026	1798	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 202 à 204	-18387	Heating	-18387	70.0	1798	400	0	0

Air System Sizing Summary for 03 2E 205 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **03 2E 205 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **845.6** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.5** Tons
Total coil load **18.6** MBH
Sensible coil load **16.7** MBH
Coil CFM at peak load **990** CFM
Sum of peak zone CFM **990** CFM
Sensible heat ratio **0.896**
CFM/Ton **639.4**
sqft/Ton **546.2**
BTU/(hr sqft) **22.0**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **September 14:00**
OA DB / WB **79.2 / 68.5** F
Entering DB / WB **75.1 / 65.2** F
Leaving DB / WB **59.8 / 59.3** F
Resulting RH **58** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **11.0** MBH
Coil CFM at Design Heating **990** CFM
Max coil CFM **990** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **13.0**
Ent. DB / Lvg DB **68.3 / 78.6** F

Supply Fan Sizing Data

Design CFM **990** CFM
Design CFM/sqft **1.17** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.12** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 03 2E 205 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **03 2E 205 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **845.6** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 205	990	990	1.17	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 205	18.1	September 15:00	9.0	845.6

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 205						
2E 205	18.1	September 15:00	990	9.0	845.6	1.17

Air System Heat Balance Summary for 03 2E 205 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

	DESIGN COOLING - SEPTEMBER 14:00			DESIGN HEATING		
	OA DB / WB 79.2 F / 68.5 F			OA DB / WB -20.0 F / -20.0 F		
COMPONENT LOADS	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	16559	478	-	9155	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	990 CFM	0	-	990 CFM	0	-
Ventilation Load	100 CFM	87	774	100 CFM	1841	0
Supply Fan Load	990 CFM	0	-	990 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	16645	1252	-	10996	0
Central Cooling Coil	-	16654	1923	-	0	0
Central Heating Coil	-	0	-	-	11001	-
>> Total Conditioning	-	16654	1923	-	11001	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

	DESIGN COOLING - SEPTEMBER 14:00			DESIGN HEATING		
	OA DB / WB 79.2 F / 68.5 F			OA DB / WB -20.0 F / -20.0 F		
Zone Heat Balance Component	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	240 sqft	810	-	240 sqft	573	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	738	-	66 sqft	657	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	528	-	47 sqft	469	-
Floor Convection	846 sqft	5418	-	846 sqft	645	-
Interior Wall Convection	904 sqft	2969	-	904 sqft	467	-
Ceiling Convection	846 sqft	4410	-	846 sqft	854	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	35 CFM	4125	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	2231	0	15%	1168	0
>> Total Zone Loads	-	17105	0	-	8958	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 03 2E 205 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:53 PM

DESIGN COOLING DAY AT SEPTEMBER 14:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	79.2	0.01255	100	400	87	774
Air-to-Air Energy Recovery	Outlet	75.8	0.01255	100	400	379	0
Vent - Return Mixing	Outlet	75.1	0.01108	990	400	-	-
Central Cooling Coil	Outlet	59.8	0.01068	990	400	16654	1923
Central Heating Coil	Outlet	59.8	0.01068	990	400	0	-
Supply Fan	Outlet	59.8	0.01068	990	400	0	-
Cold Supply Duct	Outlet	59.8	0.01068	990	400	-	-
Zone Air	-	75.0	0.01078	990	400	16559	478
Return Air	Outlet	75.0	0.01091	990	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 205	16555	Cooling	16559	75.0	990	400	0	0

System Psychrometrics for 03 2E 205 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:53 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-1841	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	100	400	-7870	0
Vent - Return Mixing	Outlet	68.3	0.00026	990	400	-	-
Central Cooling Coil	Outlet	68.3	0.00026	990	400	0	0
Central Heating Coil	Outlet	78.6	0.00026	990	400	11001	-
Supply Fan	Outlet	78.6	0.00026	990	400	0	-
Cold Supply Duct	Outlet	78.6	0.00026	990	400	-	-
Zone Air	-	70.0	0.00026	990	400	-9155	0
Return Air	Outlet	70.0	0.00026	990	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 205	-9155	Heating	-9155	70.0	990	400	0	0

Air System Sizing Summary for 04 2E 207 et 206 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:53 PM

Air System Information

Air System Name **04 2E 207 et 206 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **1151.2** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.5** Tons
Total coil load **17.6** MBH
Sensible coil load **14.6** MBH
Coil CFM at peak load **885** CFM
Sum of peak zone CFM **885** CFM
Sensible heat ratio **0.829**
CFM/Ton **602.4**
sqft/Ton **783.3**
BTU/(hr sqft) **15.3**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 15:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **75.5 / 66.2** F
Leaving DB / WB **60.5 / 60.1** F
Resulting RH **60** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **12.7** MBH
Coil CFM at Design Heating **885** CFM
Max coil CFM **885** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **11.0**
Ent. DB / Lvg DB **66.1 / 79.4** F

Supply Fan Sizing Data

Design CFM **885** CFM
Design CFM/sqft **0.77** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **200** CFM
CFM/sqft **0.17** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 04 2E 207 et 206 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:53 PM

Air System Information

Air System Name **04 2E 207 et 206 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **1151.2** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 207 et 206	885	885	0.77	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 207 et 206	16.2	September 15:00	8.7	1151.2

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 207 et 206						
2E 207 et 206	16.2	September 15:00	885	8.7	1151.2	0.77

Air System Heat Balance Summary for 04 2E 207 et 206 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:53 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	14138	371	-	8976	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	885 CFM	0	-	885 CFM	0	-
Ventilation Load	200 CFM	451	2223	200 CFM	3682	0
Supply Fan Load	885 CFM	0	-	885 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	14589	2595	-	12658	0
Central Cooling Coil	-	14623	3012	-	0	0
Central Heating Coil	-	0	-	-	12668	-
>> Total Conditioning	-	14623	3012	-	12668	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	263 sqft	791	-	263 sqft	576	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	0 sqft	0	-	0 sqft	0	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	95 sqft	898	-	95 sqft	939	-
Floor Convection	1151 sqft	3542	-	1151 sqft	594	-
Interior Wall Convection	1245 sqft	3076	-	1245 sqft	462	-
Ceiling Convection	1151 sqft	4703	-	1151 sqft	862	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	36 CFM	4172	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	1952	0	15%	1141	0
>> Total Zone Loads	-	14962	0	-	8745	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 04 2E 207 et 206 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:53 PM

DESIGN COOLING DAY AT AUGUST 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	200	400	451	2223
Air-to-Air Energy Recovery	Outlet	77.1	0.01352	200	400	1967	0
Vent - Return Mixing	Outlet	75.5	0.01171	885	400	-	-
Central Cooling Coil	Outlet	60.5	0.01101	885	400	14623	3012
Central Heating Coil	Outlet	60.5	0.01101	885	400	0	-
Supply Fan	Outlet	60.5	0.01101	885	400	0	-
Cold Supply Duct	Outlet	60.5	0.01101	885	400	-	-
Zone Air	-	75.0	0.01110	885	400	14138	371
Return Air	Outlet	75.0	0.01118	885	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 207 et 206	14135	Cooling	14138	75.0	885	400	0	0

System Psychrometrics for 04 2E 207 et 206 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:53 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	200	400	-3682	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	200	400	-15740	0
Vent - Return Mixing	Outlet	66.1	0.00026	885	400	-	-
Central Cooling Coil	Outlet	66.1	0.00026	885	400	0	0
Central Heating Coil	Outlet	79.4	0.00026	885	400	12668	-
Supply Fan	Outlet	79.4	0.00026	885	400	0	-
Cold Supply Duct	Outlet	79.4	0.00026	885	400	-	-
Zone Air	-	70.0	0.00026	885	400	-8976	0
Return Air	Outlet	70.0	0.00026	885	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 207 et 206	-8976	Heating	-8976	70.0	885	400	0	0

Air System Sizing Summary for 05 2E 208 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:53 PM

Air System Information

Air System Name **05 2E 208 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **972.9** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.6** Tons
Total coil load **18.8** MBH
Sensible coil load **17.6** MBH
Coil CFM at peak load **1004** CFM
Sum of peak zone CFM **1004** CFM
Sensible heat ratio **0.933**
CFM/Ton **639.4**
sqft/Ton **619.8**
BTU/(hr sqft) **19.4**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **September 15:00**
OA DB / WB **80.1 / 68.8** F
Entering DB / WB **75.1 / 64.7** F
Leaving DB / WB **59.2 / 58.7** F
Resulting RH **56** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **12.0** MBH
Coil CFM at Design Heating **1004** CFM
Max coil CFM **1004** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **12.3**
Ent. DB / Lvg DB **68.3 / 79.3** F

Supply Fan Sizing Data

Design CFM **1004** CFM
Design CFM/sqft **1.03** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.10** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 05 2E 208 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:53 PM

Air System Information

Air System Name **05 2E 208 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **972.9** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 208	1004	1004	1.03	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 208	18.4	September 15:00	9.9	972.9

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 208						
2E 208	18.4	September 15:00	1004	9.9	972.9	1.03

Air System Heat Balance Summary for 05 2E 208 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:53 PM

Table 1. System Loads

	DESIGN COOLING - SEPTEMBER 15:00			DESIGN HEATING		
	OA DB / WB 80.1 F / 68.8 F			OA DB / WB -20.0 F / -20.0 F		
COMPONENT LOADS	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	17470	96	-	10128	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	1004 CFM	0	-	1004 CFM	0	-
Ventilation Load	100 CFM	103	979	100 CFM	1841	0
Supply Fan Load	1004 CFM	0	-	1004 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	17572	1075	-	11969	0
Central Cooling Coil	-	17583	1253	-	0	0
Central Heating Coil	-	0	-	-	11974	-
>> Total Conditioning	-	17583	1253	-	11974	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

	DESIGN COOLING - SEPTEMBER 15:00			DESIGN HEATING		
	OA DB / WB 80.1 F / 68.8 F			OA DB / WB -20.0 F / -20.0 F		
Zone Heat Balance Component	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	290 sqft	1059	-	290 sqft	681	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	734	-	66 sqft	660	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	523	-	47 sqft	470	-
Floor Convection	973 sqft	5840	-	973 sqft	701	-
Interior Wall Convection	954 sqft	3050	-	954 sqft	473	-
Ceiling Convection	973 sqft	4765	-	973 sqft	939	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	40 CFM	4706	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	2396	0	15%	1295	0
>> Total Zone Loads	-	18367	0	-	9925	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 05 2E 208 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:53 PM

DESIGN COOLING DAY AT SEPTEMBER 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	80.0	0.01255	100	400	103	979
Air-to-Air Energy Recovery	Outlet	76.0	0.01255	100	400	448	0
Vent - Return Mixing	Outlet	75.1	0.01069	1004	400	-	-
Central Cooling Coil	Outlet	59.2	0.01043	1004	400	17583	1253
Central Heating Coil	Outlet	59.2	0.01043	1004	400	0	-
Supply Fan	Outlet	59.2	0.01043	1004	400	0	-
Cold Supply Duct	Outlet	59.2	0.01043	1004	400	-	-
Zone Air	-	75.0	0.01045	1004	400	17470	96
Return Air	Outlet	75.0	0.01048	1004	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 208	17468	Cooling	17470	75.0	1004	400	0	0

System Psychrometrics for 05 2E 208 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:53 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-1841	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	100	400	-7870	0
Vent - Return Mixing	Outlet	68.3	0.00026	1004	400	-	-
Central Cooling Coil	Outlet	68.3	0.00026	1004	400	0	0
Central Heating Coil	Outlet	79.3	0.00026	1004	400	11974	-
Supply Fan	Outlet	79.3	0.00026	1004	400	0	-
Cold Supply Duct	Outlet	79.3	0.00026	1004	400	-	-
Zone Air	-	70.0	0.00026	1004	400	-10128	0
Return Air	Outlet	70.0	0.00026	1004	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 208	-10128	Heating	-10128	70.0	1004	400	0	0

Air System Sizing Summary for 06 2E 209 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **06 2E 209 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **661.3** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.6** Tons
Total coil load **7.5** MBH
Sensible coil load **6.3** MBH
Coil CFM at peak load **436** CFM
Sum of peak zone CFM **436** CFM
Sensible heat ratio **0.836**
CFM/Ton **697.1**
sqft/Ton **1056.7**
BTU/(hr sqft) **11.4**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 17:00**
OA DB / WB **85.0 / 71.5** F
Entering DB / WB **75.4 / 67.0** F
Leaving DB / WB **62.4 / 61.8** F
Resulting RH **64** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **13.5** MBH
Coil CFM at Design Heating **436** CFM
Max coil CFM **436** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **20.4**
Ent. DB / Lvg DB **66.1 / 94.7** F

Supply Fan Sizing Data

Design CFM **436** CFM
Design CFM/sqft **0.66** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.15** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 06 2E 209 CPT

(In Alternative: b) Alternative CPT)

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Air System Information

Air System Name **06 2E 209 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **661.3** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 209	436	436	0.66	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 209	6.7	June 18:00	11.7	661.3

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 209						
2E 209	6.7	June 18:00	436	11.7	661.3	0.66

Air System Heat Balance Summary for 06 2E 209 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Table 1. System Loads

	DESIGN COOLING - JULY 17:00			DESIGN HEATING		
	OA DB / WB 85.0 F / 71.5 F			OA DB / WB -20.0 F / -20.0 F		
COMPONENT LOADS	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	6061	244	-	11627	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	436 CFM	0	-	436 CFM	0	-
Ventilation Load	100 CFM	202	772	100 CFM	1841	0
Supply Fan Load	436 CFM	0	-	436 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	6263	1016	-	13468	0
Central Cooling Coil	-	6275	1235	-	0	0
Central Heating Coil	-	0	-	-	13473	-
>> Total Conditioning	-	6275	1235	-	13473	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

	DESIGN COOLING - JULY 17:00			DESIGN HEATING		
	OA DB / WB 85.0 F / 71.5 F			OA DB / WB -20.0 F / -20.0 F		
Zone Heat Balance Component	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	427 sqft	871	-	427 sqft	1178	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	49 sqft	123	-	49 sqft	521	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	315	-	47 sqft	507	-
Floor Convection	661 sqft	1897	-	661 sqft	695	-
Interior Wall Convection	524 sqft	760	-	524 sqft	353	-
Ceiling Convection	661 sqft	1681	-	661 sqft	843	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	52 CFM	6112	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	847	0	15%	1531	0
>> Total Zone Loads	-	6493	0	-	11740	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 06 2E 209 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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DESIGN COOLING DAY AT JULY 17:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	84.9	0.01353	100	400	202	772
Air-to-Air Energy Recovery	Outlet	76.9	0.01353	100	400	884	0
Vent - Return Mixing	Outlet	75.4	0.01227	436	400	-	-
Central Cooling Coil	Outlet	62.4	0.01169	436	400	6275	1235
Central Heating Coil	Outlet	62.4	0.01169	436	400	0	-
Supply Fan	Outlet	62.4	0.01169	436	400	0	-
Cold Supply Duct	Outlet	62.4	0.01169	436	400	-	-
Zone Air	-	75.0	0.01181	436	400	6061	244
Return Air	Outlet	75.0	0.01189	436	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 209	6059	Cooling	6061	75.0	436	400	0	0

System Psychrometrics for 06 2E 209 CPT

(In Alternative: b) Alternative CPT)

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-1841	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	100	400	-7870	0
Vent - Return Mixing	Outlet	66.1	0.00026	436	400	-	-
Central Cooling Coil	Outlet	66.1	0.00026	436	400	0	0
Central Heating Coil	Outlet	94.7	0.00026	436	400	13473	-
Supply Fan	Outlet	94.7	0.00026	436	400	0	-
Cold Supply Duct	Outlet	94.7	0.00026	436	400	-	-
Zone Air	-	70.0	0.00026	436	400	-11627	0
Return Air	Outlet	70.0	0.00026	436	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 209	-11627	Heating	-11627	70.0	436	400	0	0

Air System Sizing Summary for 07 2E 210 à 214 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **07 2E 210 à 214 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **3254.4** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **3.5** Tons
Total coil load **41.7** MBH
Sensible coil load **31.6** MBH
Coil CFM at peak load **2179** CFM
Sum of peak zone CFM **2179** CFM
Sensible heat ratio **0.759**
CFM/Ton **627.7**
sqft/Ton **937.3**
BTU/(hr sqft) **12.8**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 7:00**
OA DB / WB **68.8 / 66.5** F
Entering DB / WB **73.6 / 65.9** F
Leaving DB / WB **60.4 / 60.0** F
Resulting RH **60** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **40.8** MBH
Coil CFM at Design Heating **2179** CFM
Max coil CFM **2179** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **12.5**
Ent. DB / Lvg DB **66.1 / 83.4** F

Supply Fan Sizing Data

Design CFM **2179** CFM
Design CFM/sqft **0.67** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **500** CFM
CFM/sqft **0.15** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 07 2E 210 à 214 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

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Air System Information

Air System Name **07 2E 210 à 214 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **3254.4** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 210 à 214	2179	2179	0.67	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 210 à 214	39.9	June 7:00	31.1	3254.4

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 210 à 214						
2E 210 à 214	39.9	June 7:00	2179	31.1	3254.4	0.67

Air System Heat Balance Summary for 07 2E 210 à 214 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	34951	2746	-	31540	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	2179 CFM	0	-	2179 CFM	0	-
Ventilation Load	500 CFM	-3266	4886	500 CFM	9204	0
Supply Fan Load	2179 CFM	0	-	2179 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	31685	7632	-	40744	0
Central Cooling Coil	-	31626	10038	-	0	0
Central Heating Coil	-	0	-	-	40770	-
>> Total Conditioning	-	31626	10038	-	40770	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	819 sqft	1434	-	819 sqft	1941	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	165 sqft	842	-	165 sqft	1690	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	237 sqft	1347	-	237 sqft	2416	-
Floor Convection	3254 sqft	13082	-	3254 sqft	2481	-
Interior Wall Convection	1772 sqft	3734	-	1772 sqft	908	-
Ceiling Convection	3254 sqft	12379	-	3254 sqft	3335	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	122 CFM	14244	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	4923	0	15%	4052	0
>> Total Zone Loads	-	37740	0	-	31067	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 07 2E 210 à 214 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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DESIGN COOLING DAY AT JULY 7:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	68.9	0.01349	500	400	-3266	4886
Air-to-Air Energy Recovery	Outlet	68.9	0.01349	500	400	0	0
Vent - Return Mixing	Outlet	73.6	0.01190	2179	400	-	-
Central Cooling Coil	Outlet	60.4	0.01096	2179	400	31626	10038
Central Heating Coil	Outlet	60.4	0.01096	2179	400	0	-
Supply Fan	Outlet	60.4	0.01096	2179	400	0	-
Cold Supply Duct	Outlet	60.4	0.01096	2179	400	-	-
Zone Air	-	75.0	0.01122	2179	400	34951	2746
Return Air	Outlet	75.0	0.01142	2179	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 210 à 214	34930	Cooling	34951	75.0	2179	400	0	0

System Psychrometrics for 07 2E 210 à 214 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	500	400	-9204	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	500	400	-39349	0
Vent - Return Mixing	Outlet	66.1	0.00026	2179	400	-	-
Central Cooling Coil	Outlet	66.1	0.00026	2179	400	0	0
Central Heating Coil	Outlet	83.4	0.00026	2179	400	40770	-
Supply Fan	Outlet	83.4	0.00026	2179	400	0	-
Cold Supply Duct	Outlet	83.4	0.00026	2179	400	-	-
Zone Air	-	70.0	0.00026	2179	400	-31540	0
Return Air	Outlet	70.0	0.00026	2179	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 210 à 214	-31540	Heating	-31540	70.0	2179	400	0	0

Air System Sizing Summary for 08 2E 215 et 216 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **08 2E 215 et 216 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **1270.4** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.1** Tons
Total coil load **13.6** MBH
Sensible coil load **10.1** MBH
Coil CFM at peak load **751** CFM
Sum of peak zone CFM **751** CFM
Sensible heat ratio **0.743**
CFM/Ton **663.1**
sqft/Ton **1122.5**
BTU/(hr sqft) **10.7**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 7:00**
OA DB / WB **68.8 / 66.5** F
Entering DB / WB **73.4 / 66.2** F
Leaving DB / WB **61.2 / 60.7** F
Resulting RH **62** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **16.0** MBH
Coil CFM at Design Heating **751** CFM
Max coil CFM **751** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **12.6**
Ent. DB / Lvg DB **65.4 / 85.2** F

Supply Fan Sizing Data

Design CFM **751** CFM
Design CFM/sqft **0.59** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **200** CFM
CFM/sqft **0.16** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 08 2E 215 et 216 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **08 2E 215 et 216 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **1270.4** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 215 et 216	751	751	0.59	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 215 et 216	13.7	June 7:00	12.2	1270.4

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 215 et 216						
2E 215 et 216	13.7	June 7:00	751	12.2	1270.4	0.59

Air System Heat Balance Summary for 08 2E 215 et 216 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	11426	995	-	12331	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	751 CFM	0	-	751 CFM	0	-
Ventilation Load	200 CFM	-1306	1701	200 CFM	3682	0
Supply Fan Load	751 CFM	0	-	751 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	10120	2696	-	16012	0
Central Cooling Coil	-	10094	3488	-	0	0
Central Heating Coil	-	0	-	-	16023	-
>> Total Conditioning	-	10094	3488	-	16023	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	316 sqft	482	-	316 sqft	736	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	201	-	66 sqft	668	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	95 sqft	480	-	95 sqft	955	-
Floor Convection	1270 sqft	3569	-	1270 sqft	929	-
Interior Wall Convection	1028 sqft	2164	-	1028 sqft	502	-
Ceiling Convection	1270 sqft	4244	-	1270 sqft	1254	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	48 CFM	5559	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	1671	0	15%	1590	0
>> Total Zone Loads	-	12811	0	-	12194	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 08 2E 215 et 216 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT JULY 7:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	68.9	0.01349	200	400	-1306	1701
Air-to-Air Energy Recovery	Outlet	68.9	0.01349	200	400	0	0
Vent - Return Mixing	Outlet	73.4	0.01217	751	400	-	-
Central Cooling Coil	Outlet	61.2	0.01122	751	400	10094	3488
Central Heating Coil	Outlet	61.2	0.01122	751	400	0	-
Supply Fan	Outlet	61.2	0.01122	751	400	0	-
Cold Supply Duct	Outlet	61.2	0.01122	751	400	-	-
Zone Air	-	75.0	0.01150	751	400	11426	995
Return Air	Outlet	75.0	0.01169	751	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 215 et 216	11419	Cooling	11426	75.0	751	400	0	0

System Psychrometrics for 08 2E 215 et 216 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	200	400	-3682	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	200	400	-15740	0
Vent - Return Mixing	Outlet	65.4	0.00026	751	400	-	-
Central Cooling Coil	Outlet	65.4	0.00026	751	400	0	0
Central Heating Coil	Outlet	85.2	0.00026	751	400	16023	-
Supply Fan	Outlet	85.2	0.00026	751	400	0	-
Cold Supply Duct	Outlet	85.2	0.00026	751	400	-	-
Zone Air	-	70.0	0.00026	751	400	-12331	0
Return Air	Outlet	70.0	0.00026	751	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 215 et 216	-12331	Heating	-12331	70.0	751	400	0	0

Air System Sizing Summary for 09 2E 217 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:54 PM

Air System Information

Air System Name **09 2E 217 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **862.9** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.0** Tons
Total coil load **12.5** MBH
Sensible coil load **9.9** MBH
Coil CFM at peak load **657** CFM
Sum of peak zone CFM **657** CFM
Sensible heat ratio **0.787**
CFM/Ton **628.2**
sqft/Ton **825.4**
BTU/(hr sqft) **14.5**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 7:00**
OA DB / WB **68.8 / 66.5** F
Entering DB / WB **74.1 / 65.9** F
Leaving DB / WB **60.4 / 60.0** F
Resulting RH **61** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **14.9** MBH
Coil CFM at Design Heating **657** CFM
Max coil CFM **657** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **17.3**
Ent. DB / Lvg DB **67.4 / 88.5** F

Supply Fan Sizing Data

Design CFM **657** CFM
Design CFM/sqft **0.76** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.12** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 09 2E 217 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **09 2E 217 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **862.9** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 217	657	657	0.76	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 217	12.0	June 8:00	13.1	862.9

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 217						
2E 217	12.0	June 8:00	657	13.1	862.9	0.76

Air System Heat Balance Summary for 09 2E 217 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	10536	890	-	13089	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	657 CFM	0	-	657 CFM	0	-
Ventilation Load	100 CFM	-653	949	100 CFM	1841	0
Supply Fan Load	657 CFM	0	-	657 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	9883	1839	-	14930	0
Central Cooling Coil	-	9871	2675	-	0	0
Central Heating Coil	-	0	-	-	14935	-
>> Total Conditioning	-	9871	2675	-	14935	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	431 sqft	1173	-	431 sqft	1147	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	83 sqft	405	-	83 sqft	836	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	274	-	47 sqft	476	-
Floor Convection	863 sqft	2861	-	863 sqft	895	-
Interior Wall Convection	717 sqft	1613	-	717 sqft	457	-
Ceiling Convection	863 sqft	3508	-	863 sqft	1073	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	56 CFM	6547	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	1475	0	15%	1715	0
>> Total Zone Loads	-	11309	0	-	13145	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 09 2E 217 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT JULY 7:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	68.9	0.01349	100	400	-653	949
Air-to-Air Energy Recovery	Outlet	68.9	0.01349	100	400	0	0
Vent - Return Mixing	Outlet	74.1	0.01179	657	400	-	-
Central Cooling Coil	Outlet	60.4	0.01096	657	400	9871	2675
Central Heating Coil	Outlet	60.4	0.01096	657	400	0	-
Supply Fan	Outlet	60.4	0.01096	657	400	0	-
Cold Supply Duct	Outlet	60.4	0.01096	657	400	-	-
Zone Air	-	75.0	0.01124	657	400	10536	890
Return Air	Outlet	75.0	0.01148	657	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 217	10530	Cooling	10536	75.0	657	400	0	0

System Psychrometrics for 09 2E 217 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-1841	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	100	400	-7870	0
Vent - Return Mixing	Outlet	67.4	0.00026	657	400	-	-
Central Cooling Coil	Outlet	67.4	0.00026	657	400	0	0
Central Heating Coil	Outlet	88.5	0.00026	657	400	14935	-
Supply Fan	Outlet	88.5	0.00026	657	400	0	-
Cold Supply Duct	Outlet	88.5	0.00026	657	400	-	-
Zone Air	-	70.0	0.00026	657	400	-13089	0
Return Air	Outlet	70.0	0.00026	657	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 217	-13089	Heating	-13089	70.0	657	400	0	0

Air System Sizing Summary for 10 2E 218 et 219 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **10 2E 218 et 219 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **1151.3** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.9** Tons
Total coil load **11.1** MBH
Sensible coil load **7.7** MBH
Coil CFM at peak load **586** CFM
Sum of peak zone CFM **586** CFM
Sensible heat ratio **0.691**
CFM/Ton **632.1**
sqft/Ton **1241.2**
BTU/(hr sqft) **9.7**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 7:00**
OA DB / WB **68.8 / 66.5** F
Entering DB / WB **72.9 / 66.4** F
Leaving DB / WB **61.0 / 60.6** F
Resulting RH **62** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **12.6** MBH
Coil CFM at Design Heating **586** CFM
Max coil CFM **586** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **10.9**
Ent. DB / Lvg DB **64.2 / 84.0** F

Supply Fan Sizing Data

Design CFM **586** CFM
Design CFM/sqft **0.51** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **200** CFM
CFM/sqft **0.17** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 10 2E 218 et 219 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **10 2E 218 et 219 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **1151.3** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 218 et 219	586	586	0.51	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 218 et 219	10.7	June 8:00	8.7	1151.3

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 218 et 219						
2E 218 et 219	10.7	June 8:00	586	8.7	1151.3	0.51

Air System Heat Balance Summary for 10 2E 218 et 219 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	9019	1147	-	8875	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	586 CFM	0	-	586 CFM	0	-
Ventilation Load	200 CFM	-1306	1559	200 CFM	3682	0
Supply Fan Load	586 CFM	0	-	586 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	7713	2707	-	12557	0
Central Cooling Coil	-	7687	3445	-	0	0
Central Heating Coil	-	0	-	-	12568	-
>> Total Conditioning	-	7687	3445	-	12568	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	259 sqft	317	-	259 sqft	568	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	0 sqft	0	-	0 sqft	0	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	95 sqft	455	-	95 sqft	959	-
Floor Convection	1151 sqft	2506	-	1151 sqft	595	-
Interior Wall Convection	1256 sqft	1910	-	1256 sqft	467	-
Ceiling Convection	1151 sqft	3188	-	1151 sqft	865	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	35 CFM	4131	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	1257	0	15%	1138	0
>> Total Zone Loads	-	9634	0	-	8722	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 10 2E 218 et 219 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:54 PM

DESIGN COOLING DAY AT JULY 7:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	68.9	0.01349	200	400	-1306	1559
Air-to-Air Energy Recovery	Outlet	68.9	0.01349	200	400	0	0
Vent - Return Mixing	Outlet	72.9	0.01240	586	400	-	-
Central Cooling Coil	Outlet	61.0	0.01120	586	400	7687	3445
Central Heating Coil	Outlet	61.0	0.01120	586	400	0	-
Supply Fan	Outlet	61.0	0.01120	586	400	0	-
Cold Supply Duct	Outlet	61.0	0.01120	586	400	-	-
Zone Air	-	75.0	0.01162	586	400	9019	1147
Return Air	Outlet	75.0	0.01184	586	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 218 et 219	9012	Cooling	9019	75.0	586	400	0	0

System Psychrometrics for 10 2E 218 et 219 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:54 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	200	400	-3682	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	200	400	-15740	0
Vent - Return Mixing	Outlet	64.2	0.00026	586	400	-	-
Central Cooling Coil	Outlet	64.2	0.00026	586	400	0	0
Central Heating Coil	Outlet	84.0	0.00026	586	400	12568	-
Supply Fan	Outlet	84.0	0.00026	586	400	0	-
Cold Supply Duct	Outlet	84.0	0.00026	586	400	-	-
Zone Air	-	70.0	0.00026	586	400	-8875	0
Return Air	Outlet	70.0	0.00026	586	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 218 et 219	-8875	Heating	-8875	70.0	586	400	0	0

Air System Sizing Summary for 11 2E 220 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:54 PM

Air System Information

Air System Name **11 2E 220 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **839.5** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.0** Tons
Total coil load **12.6** MBH
Sensible coil load **9.9** MBH
Coil CFM at peak load **670** CFM
Sum of peak zone CFM **670** CFM
Sensible heat ratio **0.789**
CFM/Ton **639.1**
sqft/Ton **800.2**
BTU/(hr sqft) **15.0**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 7:00**
OA DB / WB **68.8 / 66.5** F
Entering DB / WB **74.1 / 66.0** F
Leaving DB / WB **60.7 / 60.2** F
Resulting RH **61** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **10.9** MBH
Coil CFM at Design Heating **670** CFM
Max coil CFM **670** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **13.0**
Ent. DB / Lvg DB **67.4 / 82.6** F

Supply Fan Sizing Data

Design CFM **670** CFM
Design CFM/sqft **0.80** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.12** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 11 2E 220 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:54 PM

Air System Information

Air System Name **11 2E 220 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **839.5** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 220	670	670	0.80	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 220	12.3	June 8:00	9.0	839.5

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 220						
2E 220	12.3	June 8:00	670	9.0	839.5	0.80

Air System Heat Balance Summary for 11 2E 220 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:54 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	10595	884	-	9087	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	670 CFM	0	-	670 CFM	0	-
Ventilation Load	100 CFM	-653	915	100 CFM	1841	0
Supply Fan Load	670 CFM	0	-	670 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	9942	1800	-	10928	0
Central Cooling Coil	-	9930	2659	-	0	0
Central Heating Coil	-	0	-	-	10933	-
>> Total Conditioning	-	9930	2659	-	10933	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	239 sqft	479	-	239 sqft	570	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	387	-	66 sqft	673	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	275	-	47 sqft	478	-
Floor Convection	839 sqft	2637	-	839 sqft	651	-
Interior Wall Convection	904 sqft	2505	-	904 sqft	476	-
Ceiling Convection	839 sqft	3533	-	839 sqft	859	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	35 CFM	4106	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	1472	0	15%	1172	0
>> Total Zone Loads	-	11289	0	-	8986	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 11 2E 220 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT JULY 7:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	68.9	0.01349	100	400	-653	915
Air-to-Air Energy Recovery	Outlet	68.9	0.01349	100	400	0	0
Vent - Return Mixing	Outlet	74.1	0.01184	670	400	-	-
Central Cooling Coil	Outlet	60.7	0.01103	670	400	9930	2659
Central Heating Coil	Outlet	60.7	0.01103	670	400	0	-
Supply Fan	Outlet	60.7	0.01103	670	400	0	-
Cold Supply Duct	Outlet	60.7	0.01103	670	400	-	-
Zone Air	-	75.0	0.01131	670	400	10595	884
Return Air	Outlet	75.0	0.01155	670	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 220	10589	Cooling	10595	75.0	670	400	0	0

System Psychrometrics for 11 2E 220 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:55 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-1841	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	100	400	-7870	0
Vent - Return Mixing	Outlet	67.4	0.00026	670	400	-	-
Central Cooling Coil	Outlet	67.4	0.00026	670	400	0	0
Central Heating Coil	Outlet	82.6	0.00026	670	400	10933	-
Supply Fan	Outlet	82.6	0.00026	670	400	0	-
Cold Supply Duct	Outlet	82.6	0.00026	670	400	-	-
Zone Air	-	70.0	0.00026	670	400	-9087	0
Return Air	Outlet	70.0	0.00026	670	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 220	-9087	Heating	-9087	70.0	670	400	0	0

Air System Sizing Summary for 12 2E 221 à 225 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:55 PM

Air System Information

Air System Name **12 2E 221 à 225 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **3265.4** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **3.6** Tons
Total coil load **43.4** MBH
Sensible coil load **32.9** MBH
Coil CFM at peak load **2236** CFM
Sum of peak zone CFM **2236** CFM
Sensible heat ratio **0.758**
CFM/Ton **617.9**
sqft/Ton **902.5**
BTU/(hr sqft) **13.3**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 7:00**
OA DB / WB **68.8 / 66.5** F
Entering DB / WB **73.6 / 65.9** F
Leaving DB / WB **60.3 / 59.8** F
Resulting RH **60** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **40.8** MBH
Coil CFM at Design Heating **2236** CFM
Max coil CFM **2236** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **12.5**
Ent. DB / Lvg DB **66.2 / 83.1** F

Supply Fan Sizing Data

Design CFM **2236** CFM
Design CFM/sqft **0.68** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **500** CFM
CFM/sqft **0.15** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 12 2E 221 à 225 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:55 PM

Air System Information

Air System Name **12 2E 221 à 225 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **3265.4** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 221 à 225	2236	2236	0.68	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 221 à 225	40.9	June 7:00	31.1	3265.4

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 221 à 225						
2E 221 à 225	40.9	June 7:00	2236	31.1	3265.4	0.68

Air System Heat Balance Summary for 12 2E 221 à 225 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:55 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	36223	2968	-	31618	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	2236 CFM	0	-	2236 CFM	0	-
Ventilation Load	500 CFM	-3266	4936	500 CFM	9204	0
Supply Fan Load	2236 CFM	0	-	2236 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	32957	7904	-	40822	0
Central Cooling Coil	-	32899	10519	-	0	0
Central Heating Coil	-	0	-	-	40848	-
>> Total Conditioning	-	32899	10519	-	40848	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	821 sqft	1300	-	821 sqft	1948	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	165 sqft	954	-	165 sqft	1690	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	237 sqft	1366	-	237 sqft	2418	-
Floor Convection	3265 sqft	15180	-	3265 sqft	2485	-
Interior Wall Convection	1775 sqft	3491	-	1775 sqft	915	-
Ceiling Convection	3265 sqft	11602	-	3265 sqft	3344	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	122 CFM	14272	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	5084	0	15%	4061	0
>> Total Zone Loads	-	38976	0	-	31132	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 12 2E 221 à 225 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:55 PM

DESIGN COOLING DAY AT JULY 7:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	68.9	0.01349	500	400	-3266	4936
Air-to-Air Energy Recovery	Outlet	68.9	0.01349	500	400	0	0
Vent - Return Mixing	Outlet	73.6	0.01187	2236	400	-	-
Central Cooling Coil	Outlet	60.3	0.01091	2236	400	32899	10519
Central Heating Coil	Outlet	60.3	0.01091	2236	400	0	-
Supply Fan	Outlet	60.3	0.01091	2236	400	0	-
Cold Supply Duct	Outlet	60.3	0.01091	2236	400	-	-
Zone Air	-	75.0	0.01119	2236	400	36223	2968
Return Air	Outlet	75.0	0.01140	2236	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 221 à 225	36201	Cooling	36223	75.0	2236	400	0	0

System Psychrometrics for 12 2E 221 à 225 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:55 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	500	400	-9204	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	500	400	-39349	0
Vent - Return Mixing	Outlet	66.2	0.00026	2236	400	-	-
Central Cooling Coil	Outlet	66.2	0.00026	2236	400	0	0
Central Heating Coil	Outlet	83.1	0.00026	2236	400	40848	-
Supply Fan	Outlet	83.1	0.00026	2236	400	0	-
Cold Supply Duct	Outlet	83.1	0.00026	2236	400	-	-
Zone Air	-	70.0	0.00026	2236	400	-31618	0
Return Air	Outlet	70.0	0.00026	2236	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 221 à 225	-31618	Heating	-31618	70.0	2236	400	0	0

Air System Sizing Summary for 13 2E 226 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:55 PM

Air System Information

Air System Name **13 2E 226 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **573.0** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.5** Tons
Total coil load **5.7** MBH
Sensible coil load **4.3** MBH
Coil CFM at peak load **305** CFM
Sum of peak zone CFM **305** CFM
Sensible heat ratio **0.765**
CFM/Ton **645.4**
sqft/Ton **1214.0**
BTU/(hr sqft) **9.9**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 8:00**
OA DB / WB **70.0 / 66.9** F
Entering DB / WB **73.5 / 65.8** F
Leaving DB / WB **60.6 / 60.0** F
Resulting RH **59** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **6.3** MBH
Coil CFM at Design Heating **305** CFM
Max coil CFM **305** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **11.0**
Ent. DB / Lvg DB **64.4 / 83.6** F

Supply Fan Sizing Data

Design CFM **305** CFM
Design CFM/sqft **0.53** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.17** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 13 2E 226 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:55 PM

Air System Information

Air System Name **13 2E 226 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **573.0** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 226	305	305	0.53	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 226	5.6	June 8:00	4.4	573.0

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 226						
2E 226	5.6	June 8:00	305	4.4	573.0	0.53

Air System Heat Balance Summary for 13 2E 226 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:55 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	4836	74	-	4460	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	305 CFM	0	-	305 CFM	0	-
Ventilation Load	100 CFM	-496	1151	100 CFM	1841	0
Supply Fan Load	305 CFM	0	-	305 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	4340	1225	-	6301	0
Central Cooling Coil	-	4333	1331	-	0	0
Central Heating Coil	-	0	-	-	6306	-
>> Total Conditioning	-	4333	1331	-	6306	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	129 sqft	181	-	129 sqft	278	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	0 sqft	0	-	0 sqft	0	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	250	-	47 sqft	478	-
Floor Convection	573 sqft	1157	-	573 sqft	278	-
Interior Wall Convection	901 sqft	1643	-	901 sqft	320	-
Ceiling Convection	573 sqft	1485	-	573 sqft	407	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	18 CFM	2053	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	707	0	15%	572	0
>> Total Zone Loads	-	5423	0	-	4388	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 13 2E 226 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:55 PM

DESIGN COOLING DAY AT JULY 8:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	70.4	0.01350	100	400	-496	1151
Air-to-Air Energy Recovery	Outlet	70.4	0.01350	100	400	0	0
Vent - Return Mixing	Outlet	73.5	0.01186	305	400	-	-
Central Cooling Coil	Outlet	60.6	0.01097	305	400	4333	1331
Central Heating Coil	Outlet	60.6	0.01097	305	400	0	-
Supply Fan	Outlet	60.6	0.01097	305	400	0	-
Cold Supply Duct	Outlet	60.6	0.01097	305	400	-	-
Zone Air	-	75.0	0.01102	305	400	4836	74
Return Air	Outlet	75.0	0.01106	305	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 226	4835	Cooling	4836	75.0	305	400	0	0

System Psychrometrics for 13 2E 226 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:55 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-1841	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	100	400	-7870	0
Vent - Return Mixing	Outlet	64.4	0.00026	305	400	-	-
Central Cooling Coil	Outlet	64.4	0.00026	305	400	0	0
Central Heating Coil	Outlet	83.6	0.00026	305	400	6306	-
Supply Fan	Outlet	83.6	0.00026	305	400	0	-
Cold Supply Duct	Outlet	83.6	0.00026	305	400	-	-
Zone Air	-	70.0	0.00026	305	400	-4460	0
Return Air	Outlet	70.0	0.00026	305	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 226	-4460	Heating	-4460	70.0	305	400	0	0

Air System Sizing Summary for 14 2E 227 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **14 2E 227 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **852.3** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.0** Tons
Total coil load **12.2** MBH
Sensible coil load **9.6** MBH
Coil CFM at peak load **637** CFM
Sum of peak zone CFM **637** CFM
Sensible heat ratio **0.788**
CFM/Ton **624.4**
sqft/Ton **835.5**
BTU/(hr sqft) **14.4**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 7:00**
OA DB / WB **68.8 / 66.5** F
Entering DB / WB **74.0 / 65.8** F
Leaving DB / WB **60.3 / 59.8** F
Resulting RH **60** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **15.9** MBH
Coil CFM at Design Heating **637** CFM
Max coil CFM **637** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **18.6**
Ent. DB / Lvg DB **67.3 / 90.4** F

Supply Fan Sizing Data

Design CFM **637** CFM
Design CFM/sqft **0.75** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.12** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 14 2E 227 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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1:55 PM

Air System Information

Air System Name **14 2E 227 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **852.3** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 227	637	637	0.75	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 227	11.7	June 7:00	14.1	852.3

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 227						
2E 227	11.7	June 7:00	637	14.1	852.3	0.75

Air System Heat Balance Summary for 14 2E 227 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:55 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	10307	836	-	14024	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	637 CFM	0	-	637 CFM	0	-
Ventilation Load	100 CFM	-653	981	100 CFM	1841	0
Supply Fan Load	637 CFM	0	-	637 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	9654	1817	-	15865	0
Central Cooling Coil	-	9642	2598	-	0	0
Central Heating Coil	-	0	-	-	15870	-
>> Total Conditioning	-	9642	2598	-	15870	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	520 sqft	920	-	520 sqft	1408	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	385	-	66 sqft	677	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	274	-	47 sqft	482	-
Floor Convection	852 sqft	3738	-	852 sqft	865	-
Interior Wall Convection	634 sqft	1298	-	634 sqft	400	-
Ceiling Convection	852 sqft	3032	-	852 sqft	1046	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	63 CFM	7395	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	1447	0	15%	1841	0
>> Total Zone Loads	-	11094	0	-	14115	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 14 2E 227 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT JULY 7:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	68.9	0.01349	100	400	-653	981
Air-to-Air Energy Recovery	Outlet	68.9	0.01349	100	400	0	0
Vent - Return Mixing	Outlet	74.0	0.01174	637	400	-	-
Central Cooling Coil	Outlet	60.3	0.01091	637	400	9642	2598
Central Heating Coil	Outlet	60.3	0.01091	637	400	0	-
Supply Fan	Outlet	60.3	0.01091	637	400	0	-
Cold Supply Duct	Outlet	60.3	0.01091	637	400	-	-
Zone Air	-	75.0	0.01118	637	400	10307	836
Return Air	Outlet	75.0	0.01142	637	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 227	10301	Cooling	10307	75.0	637	400	0	0

System Psychrometrics for 14 2E 227 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-1841	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	100	400	-7870	0
Vent - Return Mixing	Outlet	67.3	0.00026	637	400	-	-
Central Cooling Coil	Outlet	67.3	0.00026	637	400	0	0
Central Heating Coil	Outlet	90.4	0.00026	637	400	15870	-
Supply Fan	Outlet	90.4	0.00026	637	400	0	-
Cold Supply Duct	Outlet	90.4	0.00026	637	400	-	-
Zone Air	-	70.0	0.00026	637	400	-14024	0
Return Air	Outlet	70.0	0.00026	637	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 227	-14024	Heating	-14024	70.0	637	400	0	0

Air System Sizing Summary for 15 2E 228 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:55 PM

Air System Information

Air System Name **15 2E 228 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **593.9** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.7** Tons
Total coil load **8.4** MBH
Sensible coil load **7.0** MBH
Coil CFM at peak load **433** CFM
Sum of peak zone CFM **433** CFM
Sensible heat ratio **0.832**
CFM/Ton **618.4**
sqft/Ton **848.9**
BTU/(hr sqft) **14.1**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 10:00**
OA DB / WB **76.4 / 68.9** F
Entering DB / WB **75.1 / 66.0** F
Leaving DB / WB **60.4 / 59.9** F
Resulting RH **59** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **6.6** MBH
Coil CFM at Design Heating **433** CFM
Max coil CFM **433** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **11.1**
Ent. DB / Lvg DB **66.0 / 80.2** F

Supply Fan Sizing Data

Design CFM **433** CFM
Design CFM/sqft **0.73** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.17** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 15 2E 228 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:55 PM

Air System Information

Air System Name **15 2E 228 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **593.9** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 228	433	433	0.73	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 228	7.9	September 10:00	4.6	593.9

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 228						
2E 228	7.9	September 10:00	433	4.6	593.9	0.73

Air System Heat Balance Summary for 15 2E 228 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:55 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 10:00			DESIGN HEATING		
	OA DB / WB 76.4 F / 68.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	6945	100	-	4753	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	433 CFM	0	-	433 CFM	0	-
Ventilation Load	100 CFM	32	1175	100 CFM	1841	0
Supply Fan Load	433 CFM	0	-	433 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	6978	1275	-	6594	0
Central Cooling Coil	-	6986	1408	-	0	0
Central Heating Coil	-	0	-	-	6599	-
>> Total Conditioning	-	6986	1408	-	6599	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 10:00			DESIGN HEATING		
	OA DB / WB 76.4 F / 68.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	143 sqft	342	-	143 sqft	310	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	0 sqft	0	-	0 sqft	0	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	395	-	47 sqft	477	-
Floor Convection	594 sqft	1619	-	594 sqft	291	-
Interior Wall Convection	895 sqft	1986	-	895 sqft	308	-
Ceiling Convection	594 sqft	2121	-	594 sqft	424	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	19 CFM	2224	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	969	0	15%	605	0
>> Total Zone Loads	-	7431	0	-	4639	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 15 2E 228 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT AUGUST 10:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	76.6	0.01351	100	400	32	1175
Air-to-Air Energy Recovery	Outlet	75.3	0.01351	100	400	141	0
Vent - Return Mixing	Outlet	75.1	0.01160	433	400	-	-
Central Cooling Coil	Outlet	60.4	0.01094	433	400	6986	1408
Central Heating Coil	Outlet	60.4	0.01094	433	400	0	-
Supply Fan	Outlet	60.4	0.01094	433	400	0	-
Cold Supply Duct	Outlet	60.4	0.01094	433	400	-	-
Zone Air	-	75.0	0.01098	433	400	6945	100
Return Air	Outlet	75.0	0.01103	433	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 228	6944	Cooling	6945	75.0	433	400	0	0

System Psychrometrics for 15 2E 228 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:55 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-1841	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	100	400	-7870	0
Vent - Return Mixing	Outlet	66.0	0.00026	433	400	-	-
Central Cooling Coil	Outlet	66.0	0.00026	433	400	0	0
Central Heating Coil	Outlet	80.2	0.00026	433	400	6599	-
Supply Fan	Outlet	80.2	0.00026	433	400	0	-
Cold Supply Duct	Outlet	80.2	0.00026	433	400	-	-
Zone Air	-	70.0	0.00026	433	400	-4753	0
Return Air	Outlet	70.0	0.00026	433	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 228	-4753	Heating	-4753	70.0	433	400	0	0

Air System Sizing Summary for 16 2E 229 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:56 PM

Air System Information

Air System Name **16 2E 229 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **991.0** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.1** Tons
Total coil load **13.3** MBH
Sensible coil load **11.7** MBH
Coil CFM at peak load **717** CFM
Sum of peak zone CFM **717** CFM
Sensible heat ratio **0.882**
CFM/Ton **648.6**
sqft/Ton **896.1**
BTU/(hr sqft) **13.4**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 10:00**
OA DB / WB **76.4 / 68.9** F
Entering DB / WB **75.0 / 65.5** F
Leaving DB / WB **60.2 / 59.7** F
Resulting RH **59** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **17.5** MBH
Coil CFM at Design Heating **717** CFM
Max coil CFM **717** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **17.6**
Ent. DB / Lvg DB **67.6 / 90.2** F

Supply Fan Sizing Data

Design CFM **717** CFM
Design CFM/sqft **0.72** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.10** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 16 2E 229 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **16 2E 229 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **991.0** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 229	717	717	0.72	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 229	13.1	September 11:00	15.8	991.0

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 229						
2E 229	13.1	September 11:00	717	15.8	991.0	0.72

Air System Heat Balance Summary for 16 2E 229 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 10:00			DESIGN HEATING		
	OA DB / WB 76.4 F / 68.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	11667	151	-	15645	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	717 CFM	0	-	717 CFM	0	-
Ventilation Load	100 CFM	32	1228	100 CFM	1841	0
Supply Fan Load	717 CFM	0	-	717 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	11699	1379	-	17485	0
Central Cooling Coil	-	11708	1563	-	0	0
Central Heating Coil	-	0	-	-	17491	-
>> Total Conditioning	-	11708	1563	-	17491	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 10:00			DESIGN HEATING		
	OA DB / WB 76.4 F / 68.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	608 sqft	1228	-	608 sqft	1623	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	359	-	66 sqft	666	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	403	-	47 sqft	479	-
Floor Convection	991 sqft	4389	-	991 sqft	970	-
Interior Wall Convection	606 sqft	1187	-	606 sqft	367	-
Ceiling Convection	991 sqft	3228	-	991 sqft	1173	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	72 CFM	8418	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	1619	0	15%	2054	0
>> Total Zone Loads	-	12412	0	-	15751	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 16 2E 229 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT AUGUST 10:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	76.6	0.01351	100	400	32	1228
Air-to-Air Energy Recovery	Outlet	75.3	0.01351	100	400	141	0
Vent - Return Mixing	Outlet	75.0	0.01128	717	400	-	-
Central Cooling Coil	Outlet	60.2	0.01083	717	400	11708	1563
Central Heating Coil	Outlet	60.2	0.01083	717	400	0	-
Supply Fan	Outlet	60.2	0.01083	717	400	0	-
Cold Supply Duct	Outlet	60.2	0.01083	717	400	-	-
Zone Air	-	75.0	0.01087	717	400	11667	151
Return Air	Outlet	75.0	0.01091	717	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 229	11665	Cooling	11667	75.0	717	400	0	0

System Psychrometrics for 16 2E 229 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-1841	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	100	400	-7870	0
Vent - Return Mixing	Outlet	67.6	0.00026	717	400	-	-
Central Cooling Coil	Outlet	67.6	0.00026	717	400	0	0
Central Heating Coil	Outlet	90.2	0.00026	717	400	17491	-
Supply Fan	Outlet	90.2	0.00026	717	400	0	-
Cold Supply Duct	Outlet	90.2	0.00026	717	400	-	-
Zone Air	-	70.0	0.00026	717	400	-15645	0
Return Air	Outlet	70.0	0.00026	717	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 229	-15645	Heating	-15645	70.0	717	400	0	0

Air System Sizing Summary for 17 2E 230 à 234 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **17 2E 230 à 234 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **3286.8** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **5.4** Tons
Total coil load **64.9** MBH
Sensible coil load **56.6** MBH
Coil CFM at peak load **3357** CFM
Sum of peak zone CFM **3357** CFM
Sensible heat ratio **0.873**
CFM/Ton **620.7**
sqft/Ton **607.7**
BTU/(hr sqft) **19.7**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **September 14:00**
OA DB / WB **79.2 / 68.5** F
Entering DB / WB **75.1 / 65.4** F
Leaving DB / WB **59.8 / 59.3** F
Resulting RH **58** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **41.0** MBH
Coil CFM at Design Heating **3357** CFM
Max coil CFM **3357** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **12.5**
Ent. DB / Lvg DB **67.5 / 78.8** F

Supply Fan Sizing Data

Design CFM **3357** CFM
Design CFM/sqft **1.02** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **500** CFM
CFM/sqft **0.15** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 17 2E 230 à 234 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **17 2E 230 à 234 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **3286.8** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 230 à 234	3357	3357	1.02	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 230 à 234	61.4	September 15:00	30.9	3286.8

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 230 à 234						
2E 230 à 234	61.4	September 15:00	3357	30.9	3286.8	1.02

Air System Heat Balance Summary for 17 2E 230 à 234 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - SEPTEMBER 14:00			DESIGN HEATING		
	OA DB / WB 79.2 F / 68.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	56161	1988	-	31800	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	3357 CFM	0	-	3357 CFM	0	-
Ventilation Load	500 CFM	434	3727	500 CFM	9204	0
Supply Fan Load	3357 CFM	0	-	3357 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	56595	5715	-	41004	0
Central Cooling Coil	-	56635	8262	-	0	0
Central Heating Coil	-	0	-	-	41030	-
>> Total Conditioning	-	56635	8262	-	41030	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - SEPTEMBER 14:00			DESIGN HEATING		
	OA DB / WB 79.2 F / 68.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	821 sqft	2455	-	821 sqft	1939	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	165 sqft	1799	-	165 sqft	1653	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	237 sqft	2571	-	237 sqft	2358	-
Floor Convection	3287 sqft	22465	-	3287 sqft	2453	-
Interior Wall Convection	1779 sqft	5082	-	1779 sqft	907	-
Ceiling Convection	3287 sqft	16238	-	3287 sqft	3314	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	122 CFM	14272	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	7592	0	15%	4034	0
>> Total Zone Loads	-	58202	0	-	30931	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 17 2E 230 à 234 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT SEPTEMBER 14:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	79.2	0.01255	500	400	434	3727
Air-to-Air Energy Recovery	Outlet	75.8	0.01255	500	400	1893	0
Vent - Return Mixing	Outlet	75.1	0.01121	3357	400	-	-
Central Cooling Coil	Outlet	59.8	0.01070	3357	400	56635	8262
Central Heating Coil	Outlet	59.8	0.01070	3357	400	0	-
Supply Fan	Outlet	59.8	0.01070	3357	400	0	-
Cold Supply Duct	Outlet	59.8	0.01070	3357	400	-	-
Zone Air	-	75.0	0.01083	3357	400	56161	1988
Return Air	Outlet	75.0	0.01097	3357	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 230 à 234	56145	Cooling	56161	75.0	3357	400	0	0

System Psychrometrics for 17 2E 230 à 234 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	500	400	-9204	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	500	400	-39349	0
Vent - Return Mixing	Outlet	67.5	0.00026	3357	400	-	-
Central Cooling Coil	Outlet	67.5	0.00026	3357	400	0	0
Central Heating Coil	Outlet	78.8	0.00026	3357	400	41030	-
Supply Fan	Outlet	78.8	0.00026	3357	400	0	-
Cold Supply Duct	Outlet	78.8	0.00026	3357	400	-	-
Zone Air	-	70.0	0.00026	3357	400	-31800	0
Return Air	Outlet	70.0	0.00026	3357	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 230 à 234	-31800	Heating	-31800	70.0	3357	400	0	0

Air System Sizing Summary for 18 2E 235 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **18 2E 235 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **844.7** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.6** Tons
Total coil load **18.7** MBH
Sensible coil load **17.5** MBH
Coil CFM at peak load **994** CFM
Sum of peak zone CFM **994** CFM
Sensible heat ratio **0.937**
CFM/Ton **639.6**
sqft/Ton **543.4**
BTU/(hr sqft) **22.1**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **September 15:00**
OA DB / WB **80.1 / 68.8** F
Entering DB / WB **75.1 / 64.6** F
Leaving DB / WB **59.1 / 58.6** F
Resulting RH **56** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **11.0** MBH
Coil CFM at Design Heating **994** CFM
Max coil CFM **994** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **13.0**
Ent. DB / Lvg DB **68.3 / 78.5** F

Supply Fan Sizing Data

Design CFM **994** CFM
Design CFM/sqft **1.18** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.12** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 18 2E 235 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **18 2E 235 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **844.7** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 235	994	994	1.18	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 235	18.2	September 15:00	8.9	844.7

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 235						
2E 235	18.2	September 15:00	994	8.9	844.7	1.18

Air System Heat Balance Summary for 18 2E 235 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Table 1. System Loads

	DESIGN COOLING - SEPTEMBER 15:00			DESIGN HEATING		
	OA DB / WB 80.1 F / 68.8 F			OA DB / WB -20.0 F / -20.0 F		
COMPONENT LOADS	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	17368	44	-	9121	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	994 CFM	0	-	994 CFM	0	-
Ventilation Load	100 CFM	103	1000	100 CFM	1841	0
Supply Fan Load	994 CFM	0	-	994 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	17471	1044	-	10962	0
Central Cooling Coil	-	17482	1171	-	0	0
Central Heating Coil	-	0	-	-	10967	-
>> Total Conditioning	-	17482	1171	-	10967	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

	DESIGN COOLING - SEPTEMBER 15:00			DESIGN HEATING		
	OA DB / WB 80.1 F / 68.8 F			OA DB / WB -20.0 F / -20.0 F		
Zone Heat Balance Component	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	238 sqft	972	-	238 sqft	567	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	773	-	66 sqft	660	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	547	-	47 sqft	467	-
Floor Convection	845 sqft	5670	-	845 sqft	643	-
Interior Wall Convection	907 sqft	3286	-	907 sqft	470	-
Ceiling Convection	845 sqft	4572	-	845 sqft	852	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	35 CFM	4100	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	2373	0	15%	1164	0
>> Total Zone Loads	-	18193	0	-	8923	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 18 2E 235 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT SEPTEMBER 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	80.0	0.01255	100	400	103	1000
Air-to-Air Energy Recovery	Outlet	76.0	0.01255	100	400	448	0
Vent - Return Mixing	Outlet	75.1	0.01065	994	400	-	-
Central Cooling Coil	Outlet	59.1	0.01041	994	400	17482	1171
Central Heating Coil	Outlet	59.1	0.01041	994	400	0	-
Supply Fan	Outlet	59.1	0.01041	994	400	0	-
Cold Supply Duct	Outlet	59.1	0.01041	994	400	-	-
Zone Air	-	75.0	0.01042	994	400	17368	44
Return Air	Outlet	75.0	0.01044	994	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 235	17367	Cooling	17368	75.0	994	400	0	0

System Psychrometrics for 18 2E 235 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-1841	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	100	400	-7870	0
Vent - Return Mixing	Outlet	68.3	0.00026	994	400	-	-
Central Cooling Coil	Outlet	68.3	0.00026	994	400	0	0
Central Heating Coil	Outlet	78.5	0.00026	994	400	10967	-
Supply Fan	Outlet	78.5	0.00026	994	400	0	-
Cold Supply Duct	Outlet	78.5	0.00026	994	400	-	-
Zone Air	-	70.0	0.00026	994	400	-9121	0
Return Air	Outlet	70.0	0.00026	994	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 235	-9121	Heating	-9121	70.0	994	400	0	0

Air System Sizing Summary for 19 2E 236 et 237 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **19 2E 236 et 237 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **1153.7** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.5** Tons
Total coil load **17.6** MBH
Sensible coil load **14.6** MBH
Coil CFM at peak load **882** CFM
Sum of peak zone CFM **882** CFM
Sensible heat ratio **0.829**
CFM/Ton **602.8**
sqft/Ton **788.4**
BTU/(hr sqft) **15.2**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 15:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **75.5 / 66.3** F
Leaving DB / WB **60.5 / 60.1** F
Resulting RH **60** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **12.6** MBH
Coil CFM at Design Heating **882** CFM
Max coil CFM **882** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **10.9**
Ent. DB / Lvg DB **66.1 / 79.3** F

Supply Fan Sizing Data

Design CFM **882** CFM
Design CFM/sqft **0.76** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **200** CFM
CFM/sqft **0.17** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 19 2E 236 et 237 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **19 2E 236 et 237 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **1153.7** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E 236 et 237	882	882	0.76	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E 236 et 237	16.1	September 15:00	8.6	1153.7

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E 236 et 237						
2E 236 et 237	16.1	September 15:00	882	8.6	1153.7	0.76

Air System Heat Balance Summary for 19 2E 236 et 237 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
COMPONENT LOADS	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	14065	377	-	8885	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	882 CFM	0	-	882 CFM	0	-
Ventilation Load	200 CFM	451	2213	200 CFM	3682	0
Supply Fan Load	882 CFM	0	-	882 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	14516	2590	-	12567	0
Central Cooling Coil	-	14550	3010	-	0	0
Central Heating Coil	-	0	-	-	12577	-
>> Total Conditioning	-	14550	3010	-	12577	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
Zone Heat Balance Component	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	258 sqft	770	-	258 sqft	561	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	0 sqft	0	-	0 sqft	0	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	95 sqft	894	-	95 sqft	933	-
Floor Convection	1154 sqft	3522	-	1154 sqft	586	-
Interior Wall Convection	1256 sqft	3087	-	1256 sqft	461	-
Ceiling Convection	1154 sqft	4676	-	1154 sqft	855	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	35 CFM	4111	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	1942	0	15%	1126	0
>> Total Zone Loads	-	14890	0	-	8633	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 19 2E 236 et 237 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT AUGUST 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	200	400	451	2213
Air-to-Air Energy Recovery	Outlet	77.1	0.01352	200	400	1967	0
Vent - Return Mixing	Outlet	75.5	0.01172	882	400	-	-
Central Cooling Coil	Outlet	60.5	0.01102	882	400	14550	3010
Central Heating Coil	Outlet	60.5	0.01102	882	400	0	-
Supply Fan	Outlet	60.5	0.01102	882	400	0	-
Cold Supply Duct	Outlet	60.5	0.01102	882	400	-	-
Zone Air	-	75.0	0.01111	882	400	14065	377
Return Air	Outlet	75.0	0.01119	882	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 236 et 237	14062	Cooling	14065	75.0	882	400	0	0

System Psychrometrics for 19 2E 236 et 237 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	200	400	-3682	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	200	400	-15740	0
Vent - Return Mixing	Outlet	66.1	0.00026	882	400	-	-
Central Cooling Coil	Outlet	66.1	0.00026	882	400	0	0
Central Heating Coil	Outlet	79.3	0.00026	882	400	12577	-
Supply Fan	Outlet	79.3	0.00026	882	400	0	-
Cold Supply Duct	Outlet	79.3	0.00026	882	400	-	-
Zone Air	-	70.0	0.00026	882	400	-8885	0
Return Air	Outlet	70.0	0.00026	882	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E 236 et 237	-8885	Heating	-8885	70.0	882	400	0	0

Air System Sizing Summary for 20 2E salle commune 257 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **20 2E salle commune 257 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **193.7** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.4** Tons
Total coil load **4.8** MBH
Sensible coil load **4.2** MBH
Coil CFM at peak load **254** CFM
Sum of peak zone CFM **254** CFM
Sensible heat ratio **0.894**
CFM/Ton **641.5**
sqft/Ton **489.2**
BTU/(hr sqft) **24.5**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **September 10:00**
OA DB / WB **70.4 / 65.7** F
Entering DB / WB **74.4 / 64.6** F
Leaving DB / WB **59.2 / 58.6** F
Resulting RH **56** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **4.0** MBH
Coil CFM at Design Heating **254** CFM
Max coil CFM **254** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **20.7**
Ent. DB / Lvg DB **67.5 / 82.1** F

Supply Fan Sizing Data

Design CFM **254** CFM
Design CFM/sqft **1.31** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **37** CFM
CFM/sqft **0.19** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 20 2E salle commune 257 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **20 2E salle commune 257 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **193.7** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E salle commune 257	254	254	1.31	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E salle commune 257	4.6	September 10:00	3.3	193.7

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E salle commune 257						
2E salle commune 257	4.6	September 10:00	254	3.3	193.7	1.31

Air System Heat Balance Summary for 20 2E salle commune 257 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - SEPTEMBER 10:00			DESIGN HEATING		
	OA DB / WB 70.4 F / 65.7 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	4425	54	-	3320	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	254 CFM	0	-	254 CFM	0	-
Ventilation Load	37 CFM	-176	353	37 CFM	681	0
Supply Fan Load	254 CFM	0	-	254 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	4249	407	-	4001	0
Central Cooling Coil	-	4247	505	-	0	0
Central Heating Coil	-	0	-	-	4003	-
>> Total Conditioning	-	4247	505	-	4003	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - SEPTEMBER 10:00			DESIGN HEATING		
	OA DB / WB 70.4 F / 65.7 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	118 sqft	398	-	118 sqft	299	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	28 sqft	287	-	28 sqft	280	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	0 sqft	0	-	0 sqft	0	-
Floor Convection	194 sqft	733	-	194 sqft	160	-
Interior Wall Convection	460 sqft	1630	-	460 sqft	244	-
Ceiling Convection	194 sqft	995	-	194 sqft	199	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	15 CFM	1695	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	606	0	15%	432	0
>> Total Zone Loads	-	4648	0	-	3309	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 20 2E salle commune 257 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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DESIGN COOLING DAY AT SEPTEMBER 10:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	70.6	0.01254	37	400	-176	353
Air-to-Air Energy Recovery	Outlet	70.6	0.01254	37	400	0	0
Vent - Return Mixing	Outlet	74.4	0.01082	254	400	-	-
Central Cooling Coil	Outlet	59.2	0.01041	254	400	4247	505
Central Heating Coil	Outlet	59.2	0.01041	254	400	0	-
Supply Fan	Outlet	59.2	0.01041	254	400	0	-
Cold Supply Duct	Outlet	59.2	0.01041	254	400	-	-
Zone Air	-	75.0	0.01046	254	400	4425	54
Return Air	Outlet	75.0	0.01053	254	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E salle commune 257	4424	Cooling	4425	75.0	254	400	0	0

System Psychrometrics for 20 2E salle commune 257 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	37	400	-681	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	37	400	-2912	0
Vent - Return Mixing	Outlet	67.5	0.00026	254	400	-	-
Central Cooling Coil	Outlet	67.5	0.00026	254	400	0	0
Central Heating Coil	Outlet	82.1	0.00026	254	400	4003	-
Supply Fan	Outlet	82.1	0.00026	254	400	0	-
Cold Supply Duct	Outlet	82.1	0.00026	254	400	-	-
Zone Air	-	70.0	0.00026	254	400	-3320	0
Return Air	Outlet	70.0	0.00026	254	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E salle commune 257	-3320	Heating	-3320	70.0	254	400	0	0

Air System Sizing Summary for 21 3E 301 à 308 CPT

(In Alternative: b) Alternative CPT)

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Air System Information

Air System Name **21 3E 301 à 308 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **5777.7** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **9.1** Tons
Total coil load **109.4** MBH
Sensible coil load **100.4** MBH
Coil CFM at peak load **5731** CFM
Sum of peak zone CFM **5731** CFM
Sensible heat ratio **0.918**
CFM/Ton **628.5**
sqft/Ton **633.6**
BTU/(hr sqft) **18.9**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **September 15:00**
OA DB / WB **80.1 / 68.8** F
Entering DB / WB **75.1 / 64.8** F
Leaving DB / WB **59.2 / 58.7** F
Resulting RH **56** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **71.2** MBH
Coil CFM at Design Heating **5731** CFM
Max coil CFM **5731** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **12.3**
Ent. DB / Lvg DB **67.6 / 79.1** F

Supply Fan Sizing Data

Design CFM **5731** CFM
Design CFM/sqft **0.99** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **800** CFM
CFM/sqft **0.14** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 21 3E 301 à 308 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

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Air System Information

Air System Name **21 3E 301 à 308 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **5777.7** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
3E 301 à 308	5731	5731	0.99	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
3E 301 à 308	104.9	September 15:00	55.2	5777.7

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
3E 301 à 308						
3E 301 à 308	104.9	September 15:00	5731	55.2	5777.7	0.99

Air System Heat Balance Summary for 21 3E 301 à 308 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

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Table 1. System Loads

	DESIGN COOLING - SEPTEMBER 15:00			DESIGN HEATING		
	OA DB / WB 80.1 F / 68.8 F			OA DB / WB -20.0 F / -20.0 F		
COMPONENT LOADS	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	99535	347	-	56432	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	5731 CFM	0	-	5731 CFM	0	-
Ventilation Load	800 CFM	822	7783	800 CFM	14726	0
Supply Fan Load	5731 CFM	0	-	5731 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	100357	8129	-	71158	0
Central Cooling Coil	-	100444	8981	-	0	0
Central Heating Coil	-	0	-	-	71200	-
>> Total Conditioning	-	100444	8981	-	71200	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

	DESIGN COOLING - SEPTEMBER 15:00			DESIGN HEATING		
	OA DB / WB 80.1 F / 68.8 F			OA DB / WB -20.0 F / -20.0 F		
Zone Heat Balance Component	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	1605 sqft	7437	-	1605 sqft	3779	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	314 sqft	3460	-	314 sqft	3145	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	332 sqft	3662	-	332 sqft	3328	-
Floor Convection	5778 sqft	28441	-	5778 sqft	4199	-
Interior Wall Convection	2980 sqft	12058	-	2980 sqft	1491	-
Ceiling Convection	5778 sqft	36140	-	5778 sqft	5791	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	225 CFM	26269	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	13680	0	15%	7200	0
>> Total Zone Loads	-	104879	0	-	55202	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 21 3E 301 à 308 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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DESIGN COOLING DAY AT SEPTEMBER 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	80.0	0.01255	800	400	822	7783
Air-to-Air Energy Recovery	Outlet	76.0	0.01255	800	400	3583	0
Vent - Return Mixing	Outlet	75.1	0.01078	5731	400	-	-
Central Cooling Coil	Outlet	59.2	0.01046	5731	400	100444	8981
Central Heating Coil	Outlet	59.2	0.01046	5731	400	0	-
Supply Fan	Outlet	59.2	0.01046	5731	400	0	-
Cold Supply Duct	Outlet	59.2	0.01046	5731	400	-	-
Zone Air	-	75.0	0.01047	5731	400	99535	347
Return Air	Outlet	75.0	0.01049	5731	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
3E 301 à 308	99529	Cooling	99535	75.0	5731	400	0	0

System Psychrometrics for 21 3E 301 à 308 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	800	400	-14726	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	800	400	-62959	0
Vent - Return Mixing	Outlet	67.6	0.00026	5731	400	-	-
Central Cooling Coil	Outlet	67.6	0.00026	5731	400	0	0
Central Heating Coil	Outlet	79.1	0.00026	5731	400	71200	-
Supply Fan	Outlet	79.1	0.00026	5731	400	0	-
Cold Supply Duct	Outlet	79.1	0.00026	5731	400	-	-
Zone Air	-	70.0	0.00026	5731	400	-56432	0
Return Air	Outlet	70.0	0.00026	5731	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
3E 301 à 308	-56432	Heating	-56432	70.0	5731	400	0	0

Air System Sizing Summary for 22 3E 309 à 328 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

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Air System Information

Air System Name **22 3E 309 à 328 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **13391.1** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **14.4** Tons
Total coil load **172.4** MBH
Sensible coil load **130.3** MBH
Coil CFM at peak load **8922** CFM
Sum of peak zone CFM **8922** CFM
Sensible heat ratio **0.756**
CFM/Ton **621.1**
sqft/Ton **932.2**
BTU/(hr sqft) **12.9**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 7:00**
OA DB / WB **68.8 / 66.5** F
Entering DB / WB **73.6 / 65.9** F
Leaving DB / WB **60.4 / 59.9** F
Resulting RH **60** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **179.7** MBH
Coil CFM at Design Heating **8922** CFM
Max coil CFM **8922** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **13.4**
Ent. DB / Lvg DB **66.2 / 84.8** F

Supply Fan Sizing Data

Design CFM **8922** CFM
Design CFM/sqft **0.67** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **2000** CFM
CFM/sqft **0.15** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 22 3E 309 à 328 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **22 3E 309 à 328 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **13391.1** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
3E 309 à 328	8922	8922	0.67	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
3E 309 à 328	163.3	June 7:00	141.8	13391.1

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
3E 309 à 328						
3E 309 à 328	163.3	June 7:00	8922	141.8	13391.1	0.67

Air System Heat Balance Summary for 22 3E 309 à 328 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	143644	12241	-	142785	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	8922 CFM	0	-	8922 CFM	0	-
Ventilation Load	2000 CFM	-13063	19317	2000 CFM	36816	0
Supply Fan Load	8922 CFM	0	-	8922 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	130581	31559	-	179601	0
Central Cooling Coil	-	130344	42031	-	0	0
Central Heating Coil	-	0	-	-	179705	-
>> Total Conditioning	-	130344	42031	-	179705	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	4109 sqft	8328	-	4109 sqft	10063	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	759 sqft	4108	-	759 sqft	7800	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	900 sqft	4931	-	900 sqft	9261	-
Floor Convection	13391 sqft	50381	-	13391 sqft	11132	-
Interior Wall Convection	5217 sqft	11759	-	5217 sqft	2838	-
Ceiling Convection	13391 sqft	55344	-	13391 sqft	14864	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	577 CFM	67346	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	20228	0	15%	18495	0
>> Total Zone Loads	-	155080	0	-	141798	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 22 3E 309 à 328 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:57 PM

DESIGN COOLING DAY AT JULY 7:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	68.9	0.01349	2000	400	-13063	19317
Air-to-Air Energy Recovery	Outlet	68.9	0.01349	2000	400	0	0
Vent - Return Mixing	Outlet	73.6	0.01191	8922	400	-	-
Central Cooling Coil	Outlet	60.4	0.01094	8922	400	130344	42031
Central Heating Coil	Outlet	60.4	0.01094	8922	400	0	-
Supply Fan	Outlet	60.4	0.01094	8922	400	0	-
Cold Supply Duct	Outlet	60.4	0.01094	8922	400	-	-
Zone Air	-	75.0	0.01123	8922	400	143644	12241
Return Air	Outlet	75.0	0.01145	8922	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
3E 309 à 328	143555	Cooling	143646	75.0	8922	400	0	0

System Psychrometrics for 22 3E 309 à 328 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	2000	400	-36816	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	2000	400	-157396	0
Vent - Return Mixing	Outlet	66.2	0.00026	8922	400	-	-
Central Cooling Coil	Outlet	66.2	0.00026	8922	400	0	0
Central Heating Coil	Outlet	84.8	0.00026	8922	400	179705	-
Supply Fan	Outlet	84.8	0.00026	8922	400	0	-
Cold Supply Duct	Outlet	84.8	0.00026	8922	400	-	-
Zone Air	-	70.0	0.00026	8922	400	-142785	0
Return Air	Outlet	70.0	0.00026	8922	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
3E 309 à 328	-142785	Heating	-142785	70.0	8922	400	0	0

Air System Sizing Summary for 23 3E 329 et 330 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:57 PM

Air System Information

Air System Name **23 3E 329 et 330 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **1584.9** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.8** Tons
Total coil load **21.4** MBH
Sensible coil load **18.4** MBH
Coil CFM at peak load **1118** CFM
Sum of peak zone CFM **1118** CFM
Sensible heat ratio **0.859**
CFM/Ton **627.0**
sqft/Ton **889.1**
BTU/(hr sqft) **13.5**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 10:00**
OA DB / WB **76.4 / 68.9** F
Entering DB / WB **75.1 / 65.6** F
Leaving DB / WB **60.1 / 59.6** F
Resulting RH **59** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **24.0** MBH
Coil CFM at Design Heating **1118** CFM
Max coil CFM **1118** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **15.1**
Ent. DB / Lvg DB **66.9 / 86.8** F

Supply Fan Sizing Data

Design CFM **1118** CFM
Design CFM/sqft **0.71** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **200** CFM
CFM/sqft **0.13** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 23 3E 329 et 330 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **23 3E 329 et 330 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **1584.9** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
3E 329 et 330	1118	1118	0.71	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
3E 329 et 330	20.5	September 11:00	20.4	1584.9

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
3E 329 et 330						
3E 329 et 330	20.5	September 11:00	1118	20.4	1584.9	0.71

Air System Heat Balance Summary for 23 3E 329 et 330 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 10:00			DESIGN HEATING		
	OA DB / WB 76.4 F / 68.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	18300	239	-	20314	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	1118 CFM	0	-	1118 CFM	0	-
Ventilation Load	200 CFM	65	2466	200 CFM	3682	0
Supply Fan Load	1118 CFM	0	-	1118 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	18365	2704	-	23995	0
Central Cooling Coil	-	18384	3008	-	0	0
Central Heating Coil	-	0	-	-	24006	-
>> Total Conditioning	-	18384	3008	-	24006	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 10:00			DESIGN HEATING		
	OA DB / WB 76.4 F / 68.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	751 sqft	1724	-	751 sqft	1894	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	357	-	66 sqft	665	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	95 sqft	806	-	95 sqft	961	-
Floor Convection	1585 sqft	6305	-	1585 sqft	1328	-
Interior Wall Convection	953 sqft	2024	-	953 sqft	494	-
Ceiling Convection	1585 sqft	5771	-	1585 sqft	1718	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	91 CFM	10648	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	2548	0	15%	2656	0
>> Total Zone Loads	-	19536	0	-	20365	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 23 3E 329 et 330 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT AUGUST 10:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	76.6	0.01351	200	400	65	2466
Air-to-Air Energy Recovery	Outlet	75.3	0.01351	200	400	283	0
Vent - Return Mixing	Outlet	75.1	0.01137	1118	400	-	-
Central Cooling Coil	Outlet	60.1	0.01082	1118	400	18384	3008
Central Heating Coil	Outlet	60.1	0.01082	1118	400	0	-
Supply Fan	Outlet	60.1	0.01082	1118	400	0	-
Cold Supply Duct	Outlet	60.1	0.01082	1118	400	-	-
Zone Air	-	75.0	0.01086	1118	400	18300	239
Return Air	Outlet	75.0	0.01090	1118	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
3E 329 et 330	18298	Cooling	18300	75.0	1118	400	0	0

System Psychrometrics for 23 3E 329 et 330 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	200	400	-3682	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	200	400	-15740	0
Vent - Return Mixing	Outlet	66.9	0.00026	1118	400	-	-
Central Cooling Coil	Outlet	66.9	0.00026	1118	400	0	0
Central Heating Coil	Outlet	86.8	0.00026	1118	400	24006	-
Supply Fan	Outlet	86.8	0.00026	1118	400	0	-
Cold Supply Duct	Outlet	86.8	0.00026	1118	400	-	-
Zone Air	-	70.0	0.00026	1118	400	-20314	0
Return Air	Outlet	70.0	0.00026	1118	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
3E 329 et 330	-20314	Heating	-20314	70.0	1118	400	0	0

Air System Sizing Summary for 24 3E 331 à 338 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **24 3E 331 à 338 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **5285.2** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **8.3** Tons
Total coil load **99.9** MBH
Sensible coil load **87.3** MBH
Coil CFM at peak load **5185** CFM
Sum of peak zone CFM **5185** CFM
Sensible heat ratio **0.874**
CFM/Ton **623.1**
sqft/Ton **635.2**
BTU/(hr sqft) **18.9**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **September 14:00**
OA DB / WB **79.2 / 68.5** F
Entering DB / WB **75.1 / 65.4** F
Leaving DB / WB **59.8 / 59.4** F
Resulting RH **58** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **64.4** MBH
Coil CFM at Design Heating **5185** CFM
Max coil CFM **5185** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **12.2**
Ent. DB / Lvg DB **67.4 / 78.9** F

Supply Fan Sizing Data

Design CFM **5185** CFM
Design CFM/sqft **0.98** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **800** CFM
CFM/sqft **0.15** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 24 3E 331 à 338 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:58 PM

Air System Information

Air System Name **24 3E 331 à 338 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **5285.2** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
3E 331 à 338	5185	5185	0.98	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
3E 331 à 338	94.9	September 15:00	48.3	5285.2

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
3E 331 à 338						
3E 331 à 338	94.9	September 15:00	5185	48.3	5285.2	0.98

Air System Heat Balance Summary for 24 3E 331 à 338 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - SEPTEMBER 14:00			DESIGN HEATING		
	OA DB / WB 79.2 F / 68.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	86507	2993	-	49605	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	5185 CFM	0	-	5185 CFM	0	-
Ventilation Load	800 CFM	695	5971	800 CFM	14726	0
Supply Fan Load	5185 CFM	0	-	5185 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	87202	8964	-	64331	0
Central Cooling Coil	-	87267	12586	-	0	0
Central Heating Coil	-	0	-	-	64373	-
>> Total Conditioning	-	87267	12586	-	64373	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - SEPTEMBER 14:00			DESIGN HEATING		
	OA DB / WB 79.2 F / 68.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	1317 sqft	4182	-	1317 sqft	3082	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	231 sqft	2476	-	231 sqft	2324	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	379 sqft	4053	-	379 sqft	3798	-
Floor Convection	5285 sqft	32514	-	5285 sqft	3780	-
Interior Wall Convection	2664 sqft	7914	-	2664 sqft	1309	-
Ceiling Convection	5285 sqft	27062	-	5285 sqft	5251	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	193 CFM	22496	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	11730	0	15%	6306	0
>> Total Zone Loads	-	89932	0	-	48346	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 24 3E 331 à 338 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT SEPTEMBER 14:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	79.2	0.01255	800	400	695	5971
Air-to-Air Energy Recovery	Outlet	75.8	0.01255	800	400	3029	0
Vent - Return Mixing	Outlet	75.1	0.01121	5185	400	-	-
Central Cooling Coil	Outlet	59.8	0.01072	5185	400	87267	12586
Central Heating Coil	Outlet	59.8	0.01072	5185	400	0	-
Supply Fan	Outlet	59.8	0.01072	5185	400	0	-
Cold Supply Duct	Outlet	59.8	0.01072	5185	400	-	-
Zone Air	-	75.0	0.01084	5185	400	86507	2993
Return Air	Outlet	75.0	0.01097	5185	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
3E 331 à 338	86484	Cooling	86508	75.0	5185	400	0	0

System Psychrometrics for 24 3E 331 à 338 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	800	400	-14726	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	800	400	-62959	0
Vent - Return Mixing	Outlet	67.4	0.00026	5185	400	-	-
Central Cooling Coil	Outlet	67.4	0.00026	5185	400	0	0
Central Heating Coil	Outlet	78.9	0.00026	5185	400	64373	-
Supply Fan	Outlet	78.9	0.00026	5185	400	0	-
Cold Supply Duct	Outlet	78.9	0.00026	5185	400	-	-
Zone Air	-	70.0	0.00026	5185	400	-49605	0
Return Air	Outlet	70.0	0.00026	5185	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
3E 331 à 338	-49605	Heating	-49605	70.0	5185	400	0	0

Air System Sizing Summary for 25 3E salle commune 357 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **25 3E salle commune 357 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **193.7** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.4** Tons
Total coil load **4.7** MBH
Sensible coil load **4.2** MBH
Coil CFM at peak load **254** CFM
Sum of peak zone CFM **254** CFM
Sensible heat ratio **0.894**
CFM/Ton **643.7**
sqft/Ton **490.2**
BTU/(hr sqft) **24.5**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **September 10:00**
OA DB / WB **70.4 / 65.7** F
Entering DB / WB **74.4 / 64.6** F
Leaving DB / WB **59.2 / 58.7** F
Resulting RH **56** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **4.0** MBH
Coil CFM at Design Heating **254** CFM
Max coil CFM **254** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **20.7**
Ent. DB / Lvg DB **67.5 / 82.1** F

Supply Fan Sizing Data

Design CFM **254** CFM
Design CFM/sqft **1.31** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **37** CFM
CFM/sqft **0.19** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 25 3E salle commune 357 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **25 3E salle commune 357 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **193.7** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
3E salle commune 357	254	254	1.31	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
3E salle commune 357	4.7	September 10:00	3.3	193.7

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
3E salle commune 357						
3E salle commune 357	4.7	September 10:00	254	3.3	193.7	1.31

Air System Heat Balance Summary for 25 3E salle commune 357 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - SEPTEMBER 10:00			DESIGN HEATING		
	OA DB / WB 70.4 F / 65.7 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	4419	53	-	3326	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	254 CFM	0	-	254 CFM	0	-
Ventilation Load	37 CFM	-176	351	37 CFM	681	0
Supply Fan Load	254 CFM	0	-	254 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	4243	404	-	4007	0
Central Cooling Coil	-	4241	501	-	0	0
Central Heating Coil	-	0	-	-	4009	-
>> Total Conditioning	-	4241	501	-	4009	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - SEPTEMBER 10:00			DESIGN HEATING		
	OA DB / WB 70.4 F / 65.7 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	118 sqft	398	-	118 sqft	300	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	28 sqft	286	-	28 sqft	281	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	0 sqft	0	-	0 sqft	0	-
Floor Convection	194 sqft	734	-	194 sqft	159	-
Interior Wall Convection	460 sqft	1634	-	460 sqft	248	-
Ceiling Convection	194 sqft	996	-	194 sqft	202	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	15 CFM	1696	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	607	0	15%	433	0
>> Total Zone Loads	-	4655	0	-	3317	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 25 3E salle commune 357 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT SEPTEMBER 10:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	70.6	0.01254	37	400	-176	351
Air-to-Air Energy Recovery	Outlet	70.6	0.01254	37	400	0	0
Vent - Return Mixing	Outlet	74.4	0.01083	254	400	-	-
Central Cooling Coil	Outlet	59.2	0.01043	254	400	4241	501
Central Heating Coil	Outlet	59.2	0.01043	254	400	0	-
Supply Fan	Outlet	59.2	0.01043	254	400	0	-
Cold Supply Duct	Outlet	59.2	0.01043	254	400	-	-
Zone Air	-	75.0	0.01047	254	400	4419	53
Return Air	Outlet	75.0	0.01054	254	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
3E salle commune 357	4418	Cooling	4419	75.0	254	400	0	0

System Psychrometrics for 25 3E salle commune 357 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	37	400	-681	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	37	400	-2912	0
Vent - Return Mixing	Outlet	67.5	0.00026	254	400	-	-
Central Cooling Coil	Outlet	67.5	0.00026	254	400	0	0
Central Heating Coil	Outlet	82.1	0.00026	254	400	4009	-
Supply Fan	Outlet	82.1	0.00026	254	400	0	-
Cold Supply Duct	Outlet	82.1	0.00026	254	400	-	-
Zone Air	-	70.0	0.00026	254	400	-3326	0
Return Air	Outlet	70.0	0.00026	254	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
3E salle commune 357	-3326	Heating	-3326	70.0	254	400	0	0

Air System Sizing Summary for 26 4E 401 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **26 4E 401 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **865.1** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.6** Tons
Total coil load **19.8** MBH
Sensible coil load **18.4** MBH
Coil CFM at peak load **1053** CFM
Sum of peak zone CFM **1053** CFM
Sensible heat ratio **0.932**
CFM/Ton **639.3**
sqft/Ton **525.3**
BTU/(hr sqft) **22.8**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **September 15:00**
OA DB / WB **80.1 / 68.8** F
Entering DB / WB **75.1 / 64.7** F
Leaving DB / WB **59.2 / 58.7** F
Resulting RH **56** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **14.8** MBH
Coil CFM at Design Heating **1053** CFM
Max coil CFM **1053** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **17.1**
Ent. DB / Lvg DB **68.4 / 81.4** F

Supply Fan Sizing Data

Design CFM **1053** CFM
Design CFM/sqft **1.22** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.12** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 26 4E 401 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **26 4E 401 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **865.1** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 401	1053	1053	1.22	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 401	19.3	September 15:00	12.8	865.1

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 401						
4E 401	19.3	September 15:00	1053	12.8	865.1	1.22

Air System Heat Balance Summary for 26 4E 401 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - SEPTEMBER 15:00			DESIGN HEATING		
	OA DB / WB 80.1 F / 68.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	18303	139	-	12925	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	1053 CFM	0	-	1053 CFM	0	-
Ventilation Load	100 CFM	103	966	100 CFM	1841	0
Supply Fan Load	1053 CFM	0	-	1053 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	18406	1105	-	14765	0
Central Cooling Coil	-	18417	1345	-	0	0
Central Heating Coil	-	0	-	-	14771	-
>> Total Conditioning	-	18417	1345	-	14771	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - SEPTEMBER 15:00			DESIGN HEATING		
	OA DB / WB 80.1 F / 68.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	331 sqft	1449	-	331 sqft	854	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	741	-	66 sqft	654	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	532	-	47 sqft	469	-
Floor Convection	865 sqft	4588	-	865 sqft	842	-
Interior Wall Convection	1048 sqft	4126	-	1048 sqft	684	-
Ceiling Convection	865 sqft	5318	-	865 sqft	2404	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	44 CFM	5185	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	2513	0	15%	1664	0
>> Total Zone Loads	-	19267	0	-	12757	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 26 4E 401 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT SEPTEMBER 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	80.0	0.01255	100	400	103	966
Air-to-Air Energy Recovery	Outlet	76.0	0.01255	100	400	448	0
Vent - Return Mixing	Outlet	75.1	0.01070	1053	400	-	-
Central Cooling Coil	Outlet	59.2	0.01044	1053	400	18417	1345
Central Heating Coil	Outlet	59.2	0.01044	1053	400	0	-
Supply Fan	Outlet	59.2	0.01044	1053	400	0	-
Cold Supply Duct	Outlet	59.2	0.01044	1053	400	-	-
Zone Air	-	75.0	0.01047	1053	400	18303	139
Return Air	Outlet	75.0	0.01051	1053	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 401	18302	Cooling	18303	75.0	1053	400	0	0

System Psychrometrics for 26 4E 401 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-1841	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	100	400	-7870	0
Vent - Return Mixing	Outlet	68.4	0.00026	1053	400	-	-
Central Cooling Coil	Outlet	68.4	0.00026	1053	400	0	0
Central Heating Coil	Outlet	81.4	0.00026	1053	400	14771	-
Supply Fan	Outlet	81.4	0.00026	1053	400	0	-
Cold Supply Duct	Outlet	81.4	0.00026	1053	400	-	-
Zone Air	-	70.0	0.00026	1053	400	-12925	0
Return Air	Outlet	70.0	0.00026	1053	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 401	-12925	Heating	-12925	70.0	1053	400	0	0

Air System Sizing Summary for 27 4E 402 à 404 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **27 4E 402 à 404 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **1943.0** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **3.0** Tons
Total coil load **36.4** MBH
Sensible coil load **31.3** MBH
Coil CFM at peak load **1852** CFM
Sum of peak zone CFM **1852** CFM
Sensible heat ratio **0.859**
CFM/Ton **610.3**
sqft/Ton **640.4**
BTU/(hr sqft) **18.7**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 15:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **75.3 / 65.8** F
Leaving DB / WB **60.0 / 59.6** F
Resulting RH **59** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **29.9** MBH
Coil CFM at Design Heating **1852** CFM
Max coil CFM **1852** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **15.4**
Ent. DB / Lvg DB **67.2 / 82.2** F

Supply Fan Sizing Data

Design CFM **1852** CFM
Design CFM/sqft **0.95** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **300** CFM
CFM/sqft **0.15** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 27 4E 402 à 404 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

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Air System Information

Air System Name **27 4E 402 à 404 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **1943.0** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 402 à 404	1852	1852	0.95	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 402 à 404	33.9	September 15:00	23.8	1943.0

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 402 à 404						
4E 402 à 404	33.9	September 15:00	1852	23.8	1943.0	0.95

Air System Heat Balance Summary for 27 4E 402 à 404 CPT

(In Alternative: b) Alternative CPT)

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	30544	680	-	24315	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	1852 CFM	0	-	1852 CFM	0	-
Ventilation Load	300 CFM	677	3623	300 CFM	5522	0
Supply Fan Load	1852 CFM	0	-	1852 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	31220	4303	-	29837	0
Central Cooling Coil	-	31275	5132	-	0	0
Central Heating Coil	-	0	-	-	29853	-
>> Total Conditioning	-	31275	5132	-	29853	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	593 sqft	1764	-	593 sqft	1493	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	116 sqft	1184	-	116 sqft	1161	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	95 sqft	976	-	95 sqft	956	-
Floor Convection	1943 sqft	11139	-	1943 sqft	1770	-
Interior Wall Convection	1407 sqft	3523	-	1407 sqft	876	-
Ceiling Convection	1943 sqft	9234	-	1943 sqft	5111	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	80 CFM	9364	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	4173	0	15%	3110	0
>> Total Zone Loads	-	31995	0	-	23840	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 27 4E 402 à 404 CPT

(In Alternative: b) Alternative CPT)

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DESIGN COOLING DAY AT AUGUST 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	300	400	677	3623
Air-to-Air Energy Recovery	Outlet	77.1	0.01352	300	400	2950	0
Vent - Return Mixing	Outlet	75.3	0.01139	1852	400	-	-
Central Cooling Coil	Outlet	60.0	0.01082	1852	400	31275	5132
Central Heating Coil	Outlet	60.0	0.01082	1852	400	0	-
Supply Fan	Outlet	60.0	0.01082	1852	400	0	-
Cold Supply Duct	Outlet	60.0	0.01082	1852	400	-	-
Zone Air	-	75.0	0.01090	1852	400	30544	680
Return Air	Outlet	75.0	0.01097	1852	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 402 à 404	30538	Cooling	30544	75.0	1852	400	0	0

System Psychrometrics for 27 4E 402 à 404 CPT

(In Alternative: b) Alternative CPT)

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	300	400	-5522	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	300	400	-23609	0
Vent - Return Mixing	Outlet	67.2	0.00026	1852	400	-	-
Central Cooling Coil	Outlet	67.2	0.00026	1852	400	0	0
Central Heating Coil	Outlet	82.2	0.00026	1852	400	29853	-
Supply Fan	Outlet	82.2	0.00026	1852	400	0	-
Cold Supply Duct	Outlet	82.2	0.00026	1852	400	-	-
Zone Air	-	70.0	0.00026	1852	400	-24315	0
Return Air	Outlet	70.0	0.00026	1852	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 402 à 404	-24315	Heating	-24315	70.0	1852	400	0	0

Air System Sizing Summary for 28 4E 405 CPT

(In Alternative: b) Alternative CPT)

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Air System Information

Air System Name **28 4E 405 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **849.7** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.6** Tons
Total coil load **19.0** MBH
Sensible coil load **17.7** MBH
Coil CFM at peak load **1014** CFM
Sum of peak zone CFM **1014** CFM
Sensible heat ratio **0.934**
CFM/Ton **640.8**
sqft/Ton **536.8**
BTU/(hr sqft) **22.4**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **September 15:00**
OA DB / WB **80.1 / 68.8** F
Entering DB / WB **75.1 / 64.7** F
Leaving DB / WB **59.2 / 58.7** F
Resulting RH **56** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **13.8** MBH
Coil CFM at Design Heating **1014** CFM
Max coil CFM **1014** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **16.2**
Ent. DB / Lvg DB **68.3 / 80.9** F

Supply Fan Sizing Data

Design CFM **1014** CFM
Design CFM/sqft **1.19** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.12** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 28 4E 405 CPT

(In Alternative: b) Alternative CPT)

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Air System Information

Air System Name **28 4E 405 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **849.7** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 405	1014	1014	1.19	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 405	18.6	September 15:00	11.7	849.7

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 405						
4E 405	18.6	September 15:00	1014	11.7	849.7	1.19

Air System Heat Balance Summary for 28 4E 405 CPT

(In Alternative: b) Alternative CPT)

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - SEPTEMBER 15:00			DESIGN HEATING		
	OA DB / WB 80.1 F / 68.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	17619	98	-	11915	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	1014 CFM	0	-	1014 CFM	0	-
Ventilation Load	100 CFM	103	973	100 CFM	1841	0
Supply Fan Load	1014 CFM	0	-	1014 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	17722	1071	-	13756	0
Central Cooling Coil	-	17733	1260	-	0	0
Central Heating Coil	-	0	-	-	13761	-
>> Total Conditioning	-	17733	1260	-	13761	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - SEPTEMBER 15:00			DESIGN HEATING		
	OA DB / WB 80.1 F / 68.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	279 sqft	1078	-	279 sqft	713	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	744	-	66 sqft	659	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	534	-	47 sqft	473	-
Floor Convection	850 sqft	5748	-	850 sqft	808	-
Interior Wall Convection	997 sqft	3381	-	997 sqft	640	-
Ceiling Convection	850 sqft	4653	-	850 sqft	2318	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	39 CFM	4575	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	2421	0	15%	1528	0
>> Total Zone Loads	-	18560	0	-	11713	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 28 4E 405 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

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DESIGN COOLING DAY AT SEPTEMBER 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	80.0	0.01255	100	400	103	973
Air-to-Air Energy Recovery	Outlet	76.0	0.01255	100	400	448	0
Vent - Return Mixing	Outlet	75.1	0.01070	1014	400	-	-
Central Cooling Coil	Outlet	59.2	0.01044	1014	400	17733	1260
Central Heating Coil	Outlet	59.2	0.01044	1014	400	0	-
Supply Fan	Outlet	59.2	0.01044	1014	400	0	-
Cold Supply Duct	Outlet	59.2	0.01044	1014	400	-	-
Zone Air	-	75.0	0.01046	1014	400	17619	98
Return Air	Outlet	75.0	0.01049	1014	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 405	17618	Cooling	17619	75.0	1014	400	0	0

System Psychrometrics for 28 4E 405 CPT

(In Alternative: b) Alternative CPT)

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-1841	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	100	400	-7870	0
Vent - Return Mixing	Outlet	68.3	0.00026	1014	400	-	-
Central Cooling Coil	Outlet	68.3	0.00026	1014	400	0	0
Central Heating Coil	Outlet	80.9	0.00026	1014	400	13761	-
Supply Fan	Outlet	80.9	0.00026	1014	400	0	-
Cold Supply Duct	Outlet	80.9	0.00026	1014	400	-	-
Zone Air	-	70.0	0.00026	1014	400	-11915	0
Return Air	Outlet	70.0	0.00026	1014	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 405	-11915	Heating	-11915	70.0	1014	400	0	0

Air System Sizing Summary for 29 4E 406 et 407 CPT

(In Alternative: b) Alternative CPT)

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Air System Information

Air System Name **29 4E 406 et 407 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **1152.0** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.6** Tons
Total coil load **18.7** MBH
Sensible coil load **15.5** MBH
Coil CFM at peak load **921** CFM
Sum of peak zone CFM **921** CFM
Sensible heat ratio **0.826**
CFM/Ton **590.5**
sqft/Ton **738.2**
BTU/(hr sqft) **16.3**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 15:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **75.5 / 66.2** F
Leaving DB / WB **60.2 / 59.8** F
Resulting RH **59** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **16.1** MBH
Coil CFM at Design Heating **921** CFM
Max coil CFM **921** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **13.9**
Ent. DB / Lvg DB **66.3 / 82.4** F

Supply Fan Sizing Data

Design CFM **921** CFM
Design CFM/sqft **0.80** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **200** CFM
CFM/sqft **0.17** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 29 4E 406 et 407 CPT

(In Alternative: b) Alternative CPT)

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03/02/2026

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Air System Information

Air System Name **29 4E 406 et 407 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **1152.0** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 406 et 407	921	921	0.80	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 406 et 407	16.9	September 15:00	12.1	1152.0

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 406 et 407						
4E 406 et 407	16.9	September 15:00	921	12.1	1152.0	0.80

Air System Heat Balance Summary for 29 4E 406 et 407 CPT

(In Alternative: b) Alternative CPT)

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	14973	494	-	12359	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	921 CFM	0	-	921 CFM	0	-
Ventilation Load	200 CFM	451	2269	200 CFM	3682	0
Supply Fan Load	921 CFM	0	-	921 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	15424	2763	-	16040	0
Central Cooling Coil	-	15459	3266	-	0	0
Central Heating Coil	-	0	-	-	16051	-
>> Total Conditioning	-	15459	3266	-	16051	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	298 sqft	884	-	298 sqft	712	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	0 sqft	0	-	0 sqft	0	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	95 sqft	890	-	95 sqft	952	-
Floor Convection	1152 sqft	3522	-	1152 sqft	829	-
Interior Wall Convection	1362 sqft	3317	-	1362 sqft	695	-
Ceiling Convection	1152 sqft	5234	-	1152 sqft	2707	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	39 CFM	4584	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	2077	0	15%	1572	0
>> Total Zone Loads	-	15924	0	-	12050	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 29 4E 406 et 407 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:59 PM

DESIGN COOLING DAY AT AUGUST 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	200	400	451	2269
Air-to-Air Energy Recovery	Outlet	77.1	0.01352	200	400	1967	0
Vent - Return Mixing	Outlet	75.5	0.01165	921	400	-	-
Central Cooling Coil	Outlet	60.2	0.01092	921	400	15459	3266
Central Heating Coil	Outlet	60.2	0.01092	921	400	0	-
Supply Fan	Outlet	60.2	0.01092	921	400	0	-
Cold Supply Duct	Outlet	60.2	0.01092	921	400	-	-
Zone Air	-	75.0	0.01104	921	400	14973	494
Return Air	Outlet	75.0	0.01113	921	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 406 et 407	14969	Cooling	14973	75.0	921	400	0	0

System Psychrometrics for 29 4E 406 et 407 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:59 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	200	400	-3682	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	200	400	-15740	0
Vent - Return Mixing	Outlet	66.3	0.00026	921	400	-	-
Central Cooling Coil	Outlet	66.3	0.00026	921	400	0	0
Central Heating Coil	Outlet	82.4	0.00026	921	400	16051	-
Supply Fan	Outlet	82.4	0.00026	921	400	0	-
Cold Supply Duct	Outlet	82.4	0.00026	921	400	-	-
Zone Air	-	70.0	0.00026	921	400	-12359	0
Return Air	Outlet	70.0	0.00026	921	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 406 et 407	-12359	Heating	-12359	70.0	921	400	0	0

Air System Sizing Summary for 30 4E 408 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:59 PM

Air System Information

Air System Name **30 4E 408 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **967.9** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.6** Tons
Total coil load **19.3** MBH
Sensible coil load **17.9** MBH
Coil CFM at peak load **1029** CFM
Sum of peak zone CFM **1029** CFM
Sensible heat ratio **0.929**
CFM/Ton **640.2**
sqft/Ton **602.3**
BTU/(hr sqft) **19.9**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **September 15:00**
OA DB / WB **80.1 / 68.8** F
Entering DB / WB **75.1 / 64.8** F
Leaving DB / WB **59.3 / 58.8** F
Resulting RH **57** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **14.9** MBH
Coil CFM at Design Heating **1029** CFM
Max coil CFM **1029** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **15.4**
Ent. DB / Lvg DB **68.3 / 81.8** F

Supply Fan Sizing Data

Design CFM **1029** CFM
Design CFM/sqft **1.06** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.10** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 30 4E 408 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **30 4E 408 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **967.9** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 408	1029	1029	1.06	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 408	18.8	September 15:00	12.9	967.9

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 408						
4E 408	18.8	September 15:00	1029	12.9	967.9	1.06

Air System Heat Balance Summary for 30 4E 408 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - SEPTEMBER 15:00			DESIGN HEATING		
	OA DB / WB 80.1 F / 68.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	17800	172	-	13099	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	1029 CFM	0	-	1029 CFM	0	-
Ventilation Load	100 CFM	103	948	100 CFM	1841	0
Supply Fan Load	1029 CFM	0	-	1029 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	17903	1120	-	14940	0
Central Cooling Coil	-	17913	1370	-	0	0
Central Heating Coil	-	0	-	-	14945	-
>> Total Conditioning	-	17913	1370	-	14945	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - SEPTEMBER 15:00			DESIGN HEATING		
	OA DB / WB 80.1 F / 68.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	325 sqft	1155	-	325 sqft	822	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	715	-	66 sqft	663	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	512	-	47 sqft	475	-
Floor Convection	968 sqft	5768	-	968 sqft	886	-
Interior Wall Convection	1044 sqft	3233	-	1044 sqft	654	-
Ceiling Convection	968 sqft	4987	-	968 sqft	2588	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	44 CFM	5119	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	2456	0	15%	1681	0
>> Total Zone Loads	-	18826	0	-	12887	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 30 4E 408 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT SEPTEMBER 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	80.0	0.01255	100	400	103	948
Air-to-Air Energy Recovery	Outlet	76.0	0.01255	100	400	448	0
Vent - Return Mixing	Outlet	75.1	0.01074	1029	400	-	-
Central Cooling Coil	Outlet	59.3	0.01047	1029	400	17913	1370
Central Heating Coil	Outlet	59.3	0.01047	1029	400	0	-
Supply Fan	Outlet	59.3	0.01047	1029	400	0	-
Cold Supply Duct	Outlet	59.3	0.01047	1029	400	-	-
Zone Air	-	75.0	0.01050	1029	400	17800	172
Return Air	Outlet	75.0	0.01055	1029	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 408	17798	Cooling	17800	75.0	1029	400	0	0

System Psychrometrics for 30 4E 408 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

1:59 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-1841	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	100	400	-7870	0
Vent - Return Mixing	Outlet	68.3	0.00026	1029	400	-	-
Central Cooling Coil	Outlet	68.3	0.00026	1029	400	0	0
Central Heating Coil	Outlet	81.8	0.00026	1029	400	14945	-
Supply Fan	Outlet	81.8	0.00026	1029	400	0	-
Cold Supply Duct	Outlet	81.8	0.00026	1029	400	-	-
Zone Air	-	70.0	0.00026	1029	400	-13099	0
Return Air	Outlet	70.0	0.00026	1029	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 408	-13099	Heating	-13099	70.0	1029	400	0	0

Air System Sizing Summary for 31 4E 409 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:00 PM

Air System Information

Air System Name **31 4E 409 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **656.2** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.7** Tons
Total coil load **8.1** MBH
Sensible coil load **7.0** MBH
Coil CFM at peak load **530** CFM
Sum of peak zone CFM **530** CFM
Sensible heat ratio **0.864**
CFM/Ton **780.8**
sqft/Ton **967.4**
BTU/(hr sqft) **12.4**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 17:00**
OA DB / WB **85.0 / 71.5** F
Entering DB / WB **75.4 / 67.2** F
Leaving DB / WB **63.3 / 62.6** F
Resulting RH **65** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **16.0** MBH
Coil CFM at Design Heating **530** CFM
Max coil CFM **530** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **24.3**
Ent. DB / Lvg DB **66.8 / 94.7** F

Supply Fan Sizing Data

Design CFM **530** CFM
Design CFM/sqft **0.81** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.15** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 31 4E 409 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:00 PM

Air System Information

Air System Name **31 4E 409 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **656.2** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 409	530	530	0.81	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 409	7.4	June 18:00	14.3	656.2

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 409						
4E 409	7.4	June 18:00	530	14.3	656.2	0.81

Air System Heat Balance Summary for 31 4E 409 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:00 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 17:00			DESIGN HEATING		
	OA DB / WB 85.0 F / 71.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	6818	239	-	14116	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	530 CFM	0	-	530 CFM	0	-
Ventilation Load	100 CFM	202	639	100 CFM	1841	0
Supply Fan Load	530 CFM	0	-	530 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	7021	878	-	15957	0
Central Cooling Coil	-	7032	1108	-	0	0
Central Heating Coil	-	0	-	-	15962	-
>> Total Conditioning	-	7032	1108	-	15962	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 17:00			DESIGN HEATING		
	OA DB / WB 85.0 F / 71.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	476 sqft	971	-	476 sqft	1380	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	49 sqft	125	-	49 sqft	539	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	318	-	47 sqft	529	-
Floor Convection	656 sqft	1924	-	656 sqft	762	-
Interior Wall Convection	573 sqft	850	-	573 sqft	454	-
Ceiling Convection	656 sqft	2134	-	656 sqft	2043	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	57 CFM	6687	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	948	0	15%	1859	0
>> Total Zone Loads	-	7269	0	-	14254	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 31 4E 409 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:00 PM

DESIGN COOLING DAY AT JULY 17:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	84.9	0.01353	100	400	202	639
Air-to-Air Energy Recovery	Outlet	76.9	0.01353	100	400	884	0
Vent - Return Mixing	Outlet	75.4	0.01243	530	400	-	-
Central Cooling Coil	Outlet	63.3	0.01200	530	400	7032	1108
Central Heating Coil	Outlet	63.3	0.01200	530	400	0	-
Supply Fan	Outlet	63.3	0.01200	530	400	0	-
Cold Supply Duct	Outlet	63.3	0.01200	530	400	-	-
Zone Air	-	75.0	0.01210	530	400	6818	239
Return Air	Outlet	75.0	0.01218	530	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 409	6817	Cooling	6818	75.0	530	400	0	0

System Psychrometrics for 31 4E 409 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:00 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-1841	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	100	400	-7870	0
Vent - Return Mixing	Outlet	66.8	0.00026	530	400	-	-
Central Cooling Coil	Outlet	66.8	0.00026	530	400	0	0
Central Heating Coil	Outlet	94.7	0.00026	530	400	15962	-
Supply Fan	Outlet	94.7	0.00026	530	400	0	-
Cold Supply Duct	Outlet	94.7	0.00026	530	400	-	-
Zone Air	-	70.0	0.00026	530	400	-14116	0
Return Air	Outlet	70.0	0.00026	530	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 409	-14116	Heating	-14116	70.0	530	400	0	0

Air System Sizing Summary for 32 4E 410 à 417 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:00 PM

Air System Information

Air System Name **32 4E 410 à 417 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **5190.3** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **5.5** Tons
Total coil load **66.6** MBH
Sensible coil load **49.2** MBH
Coil CFM at peak load **3396** CFM
Sum of peak zone CFM **3396** CFM
Sensible heat ratio **0.740**
CFM/Ton **612.4**
sqft/Ton **935.8**
BTU/(hr sqft) **12.8**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 7:00**
OA DB / WB **68.8 / 66.5** F
Entering DB / WB **73.6 / 66.1** F
Leaving DB / WB **60.4 / 60.0** F
Resulting RH **61** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **80.9** MBH
Coil CFM at Design Heating **3396** CFM
Max coil CFM **3396** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **15.6**
Ent. DB / Lvg DB **66.0 / 88.0** F

Supply Fan Sizing Data

Design CFM **3396** CFM
Design CFM/sqft **0.65** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **800** CFM
CFM/sqft **0.15** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 32 4E 410 à 417 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:00 PM

Air System Information

Air System Name **32 4E 410 à 417 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **5190.3** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 410 à 417	3396	3396	0.65	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 410 à 417	62.2	June 7:00	65.6	5190.3

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 410 à 417						
4E 410 à 417	62.2	June 7:00	3396	65.6	5190.3	0.65

Air System Heat Balance Summary for 32 4E 410 à 417 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:00 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	54559	5696	-	66135	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	3396 CFM	0	-	3396 CFM	0	-
Ventilation Load	800 CFM	-5225	7322	800 CFM	14726	0
Supply Fan Load	3396 CFM	0	-	3396 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	49334	13019	-	80862	0
Central Cooling Coil	-	49237	17322	-	0	0
Central Heating Coil	-	0	-	-	80903	-
>> Total Conditioning	-	49237	17322	-	80903	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	1477 sqft	2632	-	1477 sqft	3810	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	330 sqft	1672	-	330 sqft	3411	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	332 sqft	1822	-	332 sqft	3429	-
Floor Convection	5190 sqft	20593	-	5190 sqft	5281	-
Interior Wall Convection	2744 sqft	5832	-	2744 sqft	1888	-
Ceiling Convection	5190 sqft	18779	-	5190 sqft	14315	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	214 CFM	24941	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	7699	0	15%	8561	0
>> Total Zone Loads	-	59029	0	-	65636	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 32 4E 410 à 417 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:00 PM

DESIGN COOLING DAY AT JULY 7:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	68.9	0.01349	800	400	-5225	7322
Air-to-Air Energy Recovery	Outlet	68.9	0.01349	800	400	0	0
Vent - Return Mixing	Outlet	73.6	0.01201	3396	400	-	-
Central Cooling Coil	Outlet	60.4	0.01097	3396	400	49237	17322
Central Heating Coil	Outlet	60.4	0.01097	3396	400	0	-
Supply Fan	Outlet	60.4	0.01097	3396	400	0	-
Cold Supply Duct	Outlet	60.4	0.01097	3396	400	-	-
Zone Air	-	75.0	0.01132	3396	400	54559	5696
Return Air	Outlet	75.0	0.01155	3396	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 410 à 417	54519	Cooling	54560	75.0	3396	400	0	0

System Psychrometrics for 32 4E 410 à 417 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:00 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	800	400	-14726	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	800	400	-62959	0
Vent - Return Mixing	Outlet	66.0	0.00026	3396	400	-	-
Central Cooling Coil	Outlet	66.0	0.00026	3396	400	0	0
Central Heating Coil	Outlet	88.0	0.00026	3396	400	80903	-
Supply Fan	Outlet	88.0	0.00026	3396	400	0	-
Cold Supply Duct	Outlet	88.0	0.00026	3396	400	-	-
Zone Air	-	70.0	0.00026	3396	400	-66135	0
Return Air	Outlet	70.0	0.00026	3396	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 410 à 417	-66135	Heating	-66135	70.0	3396	400	0	0

Air System Sizing Summary for 33 4E 418 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:00 PM

Air System Information

Air System Name **33 4E 418 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **856.5** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.0** Tons
Total coil load **12.1** MBH
Sensible coil load **9.3** MBH
Coil CFM at peak load **633** CFM
Sum of peak zone CFM **633** CFM
Sensible heat ratio **0.772**
CFM/Ton **627.8**
sqft/Ton **849.5**
BTU/(hr sqft) **14.1**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 7:00**
OA DB / WB **68.8 / 66.5** F
Entering DB / WB **74.0 / 66.1** F
Leaving DB / WB **60.7 / 60.2** F
Resulting RH **61** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **17.9** MBH
Coil CFM at Design Heating **633** CFM
Max coil CFM **633** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **20.8**
Ent. DB / Lvg DB **67.3 / 93.4** F

Supply Fan Sizing Data

Design CFM **633** CFM
Design CFM/sqft **0.74** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.12** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 33 4E 418 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:00 PM

Air System Information

Air System Name **33 4E 418 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **856.5** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 418	633	633	0.74	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 418	11.6	June 8:00	16.2	856.5

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 418						
4E 418	11.6	June 8:00	633	16.2	856.5	0.74

Air System Heat Balance Summary for 33 4E 418 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:00 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	10004	1039	-	16007	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	633 CFM	0	-	633 CFM	0	-
Ventilation Load	100 CFM	-653	870	100 CFM	1841	0
Supply Fan Load	633 CFM	0	-	633 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	9350	1909	-	17848	0
Central Cooling Coil	-	9338	2761	-	0	0
Central Heating Coil	-	0	-	-	17853	-
>> Total Conditioning	-	9338	2761	-	17853	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	482 sqft	1216	-	482 sqft	1354	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	83 sqft	386	-	83 sqft	868	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	263	-	47 sqft	497	-
Floor Convection	856 sqft	2781	-	856 sqft	990	-
Interior Wall Convection	783 sqft	1676	-	783 sqft	593	-
Ceiling Convection	856 sqft	3120	-	856 sqft	2617	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	61 CFM	7134	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	1416	0	15%	2108	0
>> Total Zone Loads	-	10858	0	-	16162	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 33 4E 418 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:00 PM

DESIGN COOLING DAY AT JULY 7:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	68.9	0.01349	100	400	-653	870
Air-to-Air Energy Recovery	Outlet	68.9	0.01349	100	400	0	0
Vent - Return Mixing	Outlet	74.0	0.01194	633	400	-	-
Central Cooling Coil	Outlet	60.7	0.01105	633	400	9338	2761
Central Heating Coil	Outlet	60.7	0.01105	633	400	0	-
Supply Fan	Outlet	60.7	0.01105	633	400	0	-
Cold Supply Duct	Outlet	60.7	0.01105	633	400	-	-
Zone Air	-	75.0	0.01140	633	400	10004	1039
Return Air	Outlet	75.0	0.01165	633	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 418	9996	Cooling	10004	75.0	633	400	0	0

System Psychrometrics for 33 4E 418 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:00 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-1841	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	100	400	-7870	0
Vent - Return Mixing	Outlet	67.3	0.00026	633	400	-	-
Central Cooling Coil	Outlet	67.3	0.00026	633	400	0	0
Central Heating Coil	Outlet	93.4	0.00026	633	400	17853	-
Supply Fan	Outlet	93.4	0.00026	633	400	0	-
Cold Supply Duct	Outlet	93.4	0.00026	633	400	-	-
Zone Air	-	70.0	0.00026	633	400	-16007	0
Return Air	Outlet	70.0	0.00026	633	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 418	-16007	Heating	-16007	70.0	633	400	0	0

Air System Sizing Summary for 34 4E 419 et 420 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:00 PM

Air System Information

Air System Name **34 4E 419 et 420 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **1151.4** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.9** Tons
Total coil load **10.4** MBH
Sensible coil load **7.7** MBH
Coil CFM at peak load **541** CFM
Sum of peak zone CFM **541** CFM
Sensible heat ratio **0.735**
CFM/Ton **621.4**
sqft/Ton **1322.6**
BTU/(hr sqft) **9.1**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 8:00**
OA DB / WB **70.0 / 66.9** F
Entering DB / WB **73.3 / 65.9** F
Leaving DB / WB **60.4 / 59.9** F
Resulting RH **59** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **15.8** MBH
Coil CFM at Design Heating **541** CFM
Max coil CFM **541** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **13.7**
Ent. DB / Lvg DB **63.7 / 90.7** F

Supply Fan Sizing Data

Design CFM **541** CFM
Design CFM/sqft **0.47** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **200** CFM
CFM/sqft **0.17** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 34 4E 419 et 420 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:00 PM

Air System Information

Air System Name **34 4E 419 et 420 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **1151.4** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 419 et 420	541	541	0.47	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 419 et 420	9.9	June 8:00	12.0	1151.4

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 419 et 420						
4E 419 et 420	9.9	June 8:00	541	12.0	1151.4	0.47

Air System Heat Balance Summary for 34 4E 419 et 420 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:01 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	8679	256	-	12090	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	541 CFM	0	-	541 CFM	0	-
Ventilation Load	200 CFM	-992	2275	200 CFM	3682	0
Supply Fan Load	541 CFM	0	-	541 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	7687	2531	-	15771	0
Central Cooling Coil	-	7674	2773	-	0	0
Central Heating Coil	-	0	-	-	15782	-
>> Total Conditioning	-	7674	2773	-	15782	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	296 sqft	442	-	296 sqft	705	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	0 sqft	0	-	0 sqft	0	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	95 sqft	475	-	95 sqft	973	-
Floor Convection	1151 sqft	2416	-	1151 sqft	832	-
Interior Wall Convection	1371 sqft	2297	-	1371 sqft	703	-
Ceiling Convection	1151 sqft	2812	-	1151 sqft	2710	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	39 CFM	4554	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	1266	0	15%	1571	0
>> Total Zone Loads	-	9709	0	-	12048	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 34 4E 419 et 420 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT JULY 8:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	70.4	0.01350	200	400	-992	2275
Air-to-Air Energy Recovery	Outlet	70.4	0.01350	200	400	0	0
Vent - Return Mixing	Outlet	73.3	0.01198	541	400	-	-
Central Cooling Coil	Outlet	60.4	0.01093	541	400	7674	2773
Central Heating Coil	Outlet	60.4	0.01093	541	400	0	-
Supply Fan	Outlet	60.4	0.01093	541	400	0	-
Cold Supply Duct	Outlet	60.4	0.01093	541	400	-	-
Zone Air	-	75.0	0.01103	541	400	8679	256
Return Air	Outlet	75.0	0.01109	541	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 419 et 420	8676	Cooling	8679	75.0	541	400	0	0

System Psychrometrics for 34 4E 419 et 420 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	200	400	-3682	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	200	400	-15740	0
Vent - Return Mixing	Outlet	63.7	0.00026	541	400	-	-
Central Cooling Coil	Outlet	63.7	0.00026	541	400	0	0
Central Heating Coil	Outlet	90.7	0.00026	541	400	15782	-
Supply Fan	Outlet	90.7	0.00026	541	400	0	-
Cold Supply Duct	Outlet	90.7	0.00026	541	400	-	-
Zone Air	-	70.0	0.00026	541	400	-12090	0
Return Air	Outlet	70.0	0.00026	541	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 419 et 420	-12090	Heating	-12090	70.0	541	400	0	0

Air System Sizing Summary for 35 4E 421 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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2:01 PM

Air System Information

Air System Name **35 4E 421 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **847.3** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.0** Tons
Total coil load **12.1** MBH
Sensible coil load **9.4** MBH
Coil CFM at peak load **646** CFM
Sum of peak zone CFM **646** CFM
Sensible heat ratio **0.773**
CFM/Ton **640.0**
sqft/Ton **839.5**
BTU/(hr sqft) **14.3**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 7:00**
OA DB / WB **68.8 / 66.5** F
Entering DB / WB **74.1 / 66.2** F
Leaving DB / WB **60.9 / 60.4** F
Resulting RH **62** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **13.6** MBH
Coil CFM at Design Heating **646** CFM
Max coil CFM **646** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **16.1**
Ent. DB / Lvg DB **67.4 / 86.9** F

Supply Fan Sizing Data

Design CFM **646** CFM
Design CFM/sqft **0.76** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.12** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 35 4E 421 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **35 4E 421 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **847.3** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 421	646	646	0.76	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 421	11.8	June 8:00	11.7	847.3

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 421						
4E 421	11.8	June 8:00	646	11.7	847.3	0.76

Air System Heat Balance Summary for 35 4E 421 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	10033	1045	-	11784	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	646 CFM	0	-	646 CFM	0	-
Ventilation Load	100 CFM	-653	829	100 CFM	1841	0
Supply Fan Load	646 CFM	0	-	646 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	9380	1874	-	13625	0
Central Cooling Coil	-	9367	2745	-	0	0
Central Heating Coil	-	0	-	-	13630	-
>> Total Conditioning	-	9367	2745	-	13630	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	277 sqft	519	-	277 sqft	708	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	367	-	66 sqft	675	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	262	-	47 sqft	483	-
Floor Convection	847 sqft	2571	-	847 sqft	815	-
Interior Wall Convection	997 sqft	2549	-	997 sqft	649	-
Ceiling Convection	847 sqft	3160	-	847 sqft	2324	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	39 CFM	4554	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	1414	0	15%	1531	0
>> Total Zone Loads	-	10841	0	-	11739	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 35 4E 421 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT JULY 7:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	68.9	0.01349	100	400	-653	829
Air-to-Air Energy Recovery	Outlet	68.9	0.01349	100	400	0	0
Vent - Return Mixing	Outlet	74.1	0.01201	646	400	-	-
Central Cooling Coil	Outlet	60.9	0.01114	646	400	9367	2745
Central Heating Coil	Outlet	60.9	0.01114	646	400	0	-
Supply Fan	Outlet	60.9	0.01114	646	400	0	-
Cold Supply Duct	Outlet	60.9	0.01114	646	400	-	-
Zone Air	-	75.0	0.01148	646	400	10033	1045
Return Air	Outlet	75.0	0.01174	646	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 421	10026	Cooling	10033	75.0	646	400	0	0

System Psychrometrics for 35 4E 421 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-1841	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	100	400	-7870	0
Vent - Return Mixing	Outlet	67.4	0.00026	646	400	-	-
Central Cooling Coil	Outlet	67.4	0.00026	646	400	0	0
Central Heating Coil	Outlet	86.9	0.00026	646	400	13630	-
Supply Fan	Outlet	86.9	0.00026	646	400	0	-
Cold Supply Duct	Outlet	86.9	0.00026	646	400	-	-
Zone Air	-	70.0	0.00026	646	400	-11784	0
Return Air	Outlet	70.0	0.00026	646	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 421	-11784	Heating	-11784	70.0	646	400	0	0

Air System Sizing Summary for 36 4E 422 à 426 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:01 PM

Air System Information

Air System Name **36 4E 422 à 426 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **3261.7** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **3.5** Tons
Total coil load **41.8** MBH
Sensible coil load **31.0** MBH
Coil CFM at peak load **2133** CFM
Sum of peak zone CFM **2133** CFM
Sensible heat ratio **0.741**
CFM/Ton **612.2**
sqft/Ton **936.1**
BTU/(hr sqft) **12.8**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 7:00**
OA DB / WB **68.8 / 66.5** F
Entering DB / WB **73.6 / 66.0** F
Leaving DB / WB **60.4 / 60.0** F
Resulting RH **61** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **50.5** MBH
Coil CFM at Design Heating **2133** CFM
Max coil CFM **2133** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **15.5**
Ent. DB / Lvg DB **66.0 / 87.9** F

Supply Fan Sizing Data

Design CFM **2133** CFM
Design CFM/sqft **0.65** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **500** CFM
CFM/sqft **0.15** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 36 4E 422 à 426 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:01 PM

Air System Information

Air System Name **36 4E 422 à 426 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **3261.7** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 422 à 426	2133	2133	0.65	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 422 à 426	39.0	June 7:00	41.0	3261.7

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 422 à 426						
4E 422 à 426	39.0	June 7:00	2133	41.0	3261.7	0.65

Air System Heat Balance Summary for 36 4E 422 à 426 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:01 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	34297	3558	-	41288	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	2133 CFM	0	-	2133 CFM	0	-
Ventilation Load	500 CFM	-3266	4597	500 CFM	9204	0
Supply Fan Load	2133 CFM	0	-	2133 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	31031	8155	-	50492	0
Central Cooling Coil	-	30970	10843	-	0	0
Central Heating Coil	-	0	-	-	50518	-
>> Total Conditioning	-	30970	10843	-	50518	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	940 sqft	1412	-	940 sqft	2410	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	165 sqft	908	-	165 sqft	1702	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	237 sqft	1308	-	237 sqft	2450	-
Floor Convection	3262 sqft	14826	-	3262 sqft	3228	-
Interior Wall Convection	1948 sqft	3633	-	1948 sqft	1307	-
Ceiling Convection	3262 sqft	10271	-	3262 sqft	8889	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	134 CFM	15650	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	4854	0	15%	5345	0
>> Total Zone Loads	-	37211	0	-	40982	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 36 4E 422 à 426 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:01 PM

DESIGN COOLING DAY AT JULY 7:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	68.9	0.01349	500	400	-3266	4597
Air-to-Air Energy Recovery	Outlet	68.9	0.01349	500	400	0	0
Vent - Return Mixing	Outlet	73.6	0.01200	2133	400	-	-
Central Cooling Coil	Outlet	60.4	0.01096	2133	400	30970	10843
Central Heating Coil	Outlet	60.4	0.01096	2133	400	0	-
Supply Fan	Outlet	60.4	0.01096	2133	400	0	-
Cold Supply Duct	Outlet	60.4	0.01096	2133	400	-	-
Zone Air	-	75.0	0.01131	2133	400	34297	3558
Return Air	Outlet	75.0	0.01155	2133	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 422 à 426	34271	Cooling	34297	75.0	2133	400	0	0

System Psychrometrics for 36 4E 422 à 426 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:01 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	500	400	-9204	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	500	400	-39349	0
Vent - Return Mixing	Outlet	66.0	0.00026	2133	400	-	-
Central Cooling Coil	Outlet	66.0	0.00026	2133	400	0	0
Central Heating Coil	Outlet	87.9	0.00026	2133	400	50518	-
Supply Fan	Outlet	87.9	0.00026	2133	400	0	-
Cold Supply Duct	Outlet	87.9	0.00026	2133	400	-	-
Zone Air	-	70.0	0.00026	2133	400	-41288	0
Return Air	Outlet	70.0	0.00026	2133	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 422 à 426	-41288	Heating	-41288	70.0	2133	400	0	0

Air System Sizing Summary for 37 4E 427 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:01 PM

Air System Information

Air System Name **37 4E 427 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **575.1** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.5** Tons
Total coil load **5.5** MBH
Sensible coil load **4.1** MBH
Coil CFM at peak load **289** CFM
Sum of peak zone CFM **289** CFM
Sensible heat ratio **0.743**
CFM/Ton **627.2**
sqft/Ton **1249.6**
BTU/(hr sqft) **9.6**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 8:00**
OA DB / WB **70.0 / 66.9** F
Entering DB / WB **73.4 / 65.9** F
Leaving DB / WB **60.5 / 60.0** F
Resulting RH **60** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **8.0** MBH
Coil CFM at Design Heating **289** CFM
Max coil CFM **289** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **13.9**
Ent. DB / Lvg DB **64.1 / 89.7** F

Supply Fan Sizing Data

Design CFM **289** CFM
Design CFM/sqft **0.50** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.17** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 37 4E 427 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:01 PM

Air System Information

Air System Name **37 4E 427 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **575.1** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 427	289	289	0.50	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 427	5.3	June 8:00	6.1	575.1

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 427						
4E 427	5.3	June 8:00	289	6.1	575.1	0.50

Air System Heat Balance Summary for 37 4E 427 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:01 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	4605	169	-	6151	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	289 CFM	0	-	289 CFM	0	-
Ventilation Load	100 CFM	-496	1105	100 CFM	1841	0
Supply Fan Load	289 CFM	0	-	289 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	4108	1274	-	7992	0
Central Cooling Coil	-	4102	1421	-	0	0
Central Heating Coil	-	0	-	-	7997	-
>> Total Conditioning	-	4102	1421	-	7997	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	149 sqft	197	-	149 sqft	350	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	0 sqft	0	-	0 sqft	0	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	239	-	47 sqft	484	-
Floor Convection	575 sqft	1097	-	575 sqft	386	-
Interior Wall Convection	984 sqft	1722	-	984 sqft	475	-
Ceiling Convection	575 sqft	1267	-	575 sqft	1327	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	20 CFM	2294	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	678	0	15%	797	0
>> Total Zone Loads	-	5202	0	-	6113	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 37 4E 427 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:02 PM

DESIGN COOLING DAY AT JULY 8:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	70.4	0.01350	100	400	-496	1105
Air-to-Air Energy Recovery	Outlet	70.4	0.01350	100	400	0	0
Vent - Return Mixing	Outlet	73.4	0.01197	289	400	-	-
Central Cooling Coil	Outlet	60.5	0.01096	289	400	4102	1421
Central Heating Coil	Outlet	60.5	0.01096	289	400	0	-
Supply Fan	Outlet	60.5	0.01096	289	400	0	-
Cold Supply Duct	Outlet	60.5	0.01096	289	400	-	-
Zone Air	-	75.0	0.01109	289	400	4605	169
Return Air	Outlet	75.0	0.01116	289	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 427	4603	Cooling	4605	75.0	289	400	0	0

System Psychrometrics for 37 4E 427 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:02 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-1841	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	100	400	-7870	0
Vent - Return Mixing	Outlet	64.1	0.00026	289	400	-	-
Central Cooling Coil	Outlet	64.1	0.00026	289	400	0	0
Central Heating Coil	Outlet	89.7	0.00026	289	400	7997	-
Supply Fan	Outlet	89.7	0.00026	289	400	0	-
Cold Supply Duct	Outlet	89.7	0.00026	289	400	-	-
Zone Air	-	70.0	0.00026	289	400	-6151	0
Return Air	Outlet	70.0	0.00026	289	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 427	-6151	Heating	-6151	70.0	289	400	0	0

Air System Sizing Summary for 38 4E 428 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:02 PM

Air System Information

Air System Name **38 4E 428 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **852.5** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.0** Tons
Total coil load **11.9** MBH
Sensible coil load **9.2** MBH
Coil CFM at peak load **642** CFM
Sum of peak zone CFM **642** CFM
Sensible heat ratio **0.776**
CFM/Ton **646.8**
sqft/Ton **858.8**
BTU/(hr sqft) **14.0**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 7:00**
OA DB / WB **68.8 / 66.5** F
Entering DB / WB **74.1 / 66.2** F
Leaving DB / WB **61.0 / 60.5** F
Resulting RH **62** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **18.9** MBH
Coil CFM at Design Heating **642** CFM
Max coil CFM **642** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **22.2**
Ent. DB / Lvg DB **67.3 / 94.7** F

Supply Fan Sizing Data

Design CFM **642** CFM
Design CFM/sqft **0.75** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.12** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 38 4E 428 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:02 PM

Air System Information

Air System Name **38 4E 428 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **852.5** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 428	642	642	0.75	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 428	11.4	June 8:00	17.3	852.5

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 428						
4E 428	11.4	June 8:00	642	17.3	852.5	0.75

Air System Heat Balance Summary for 38 4E 428 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:02 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	9913	1001	-	17099	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	642 CFM	0	-	642 CFM	0	-
Ventilation Load	100 CFM	-653	827	100 CFM	1841	0
Supply Fan Load	642 CFM	0	-	642 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	9259	1828	-	18940	0
Central Cooling Coil	-	9246	2665	-	0	0
Central Heating Coil	-	0	-	-	18945	-
>> Total Conditioning	-	9246	2665	-	18945	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	580 sqft	938	-	580 sqft	1651	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	366	-	66 sqft	702	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	262	-	47 sqft	503	-
Floor Convection	852 sqft	3370	-	852 sqft	962	-
Interior Wall Convection	694 sqft	1722	-	694 sqft	515	-
Ceiling Convection	852 sqft	2689	-	852 sqft	2601	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	69 CFM	8092	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	1402	0	15%	2254	0
>> Total Zone Loads	-	10749	0	-	17279	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 38 4E 428 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:02 PM

DESIGN COOLING DAY AT JULY 7:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	68.9	0.01349	100	400	-653	827
Air-to-Air Energy Recovery	Outlet	68.9	0.01349	100	400	0	0
Vent - Return Mixing	Outlet	74.1	0.01201	642	400	-	-
Central Cooling Coil	Outlet	61.0	0.01116	642	400	9246	2665
Central Heating Coil	Outlet	61.0	0.01116	642	400	0	-
Supply Fan	Outlet	61.0	0.01116	642	400	0	-
Cold Supply Duct	Outlet	61.0	0.01116	642	400	-	-
Zone Air	-	75.0	0.01149	642	400	9913	1001
Return Air	Outlet	75.0	0.01174	642	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 428	9906	Cooling	9913	75.0	642	400	0	0

System Psychrometrics for 38 4E 428 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-1841	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	100	400	-7870	0
Vent - Return Mixing	Outlet	67.3	0.00026	642	400	-	-
Central Cooling Coil	Outlet	67.3	0.00026	642	400	0	0
Central Heating Coil	Outlet	94.7	0.00026	642	400	18945	-
Supply Fan	Outlet	94.7	0.00026	642	400	0	-
Cold Supply Duct	Outlet	94.7	0.00026	642	400	-	-
Zone Air	-	70.0	0.00026	642	400	-17099	0
Return Air	Outlet	70.0	0.00026	642	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 428	-17099	Heating	-17099	70.0	642	400	0	0

Air System Sizing Summary for 39 4E 429 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:02 PM

Air System Information

Air System Name **39 4E 429 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **591.4** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.7** Tons
Total coil load **8.2** MBH
Sensible coil load **6.8** MBH
Coil CFM at peak load **415** CFM
Sum of peak zone CFM **415** CFM
Sensible heat ratio **0.819**
CFM/Ton **603.4**
sqft/Ton **860.2**
BTU/(hr sqft) **13.9**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 10:00**
OA DB / WB **76.4 / 68.9** F
Entering DB / WB **75.1 / 66.0** F
Leaving DB / WB **60.3 / 59.8** F
Resulting RH **59** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **8.3** MBH
Coil CFM at Design Heating **415** CFM
Max coil CFM **415** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **14.1**
Ent. DB / Lvg DB **65.9 / 84.5** F

Supply Fan Sizing Data

Design CFM **415** CFM
Design CFM/sqft **0.70** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.17** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 39 4E 429 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **39 4E 429 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **591.4** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 429	415	415	0.70	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 429	7.6	September 10:00	6.3	591.4

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 429						
4E 429	7.6	September 10:00	415	6.3	591.4	0.70

Air System Heat Balance Summary for 39 4E 429 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:02 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 10:00			DESIGN HEATING		
	OA DB / WB 76.4 F / 68.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	6714	162	-	6477	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	415 CFM	0	-	415 CFM	0	-
Ventilation Load	100 CFM	32	1165	100 CFM	1841	0
Supply Fan Load	415 CFM	0	-	415 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	6747	1328	-	8318	0
Central Cooling Coil	-	6755	1494	-	0	0
Central Heating Coil	-	0	-	-	8323	-
>> Total Conditioning	-	6755	1494	-	8323	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 10:00			DESIGN HEATING		
	OA DB / WB 76.4 F / 68.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	161 sqft	368	-	161 sqft	378	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	0 sqft	0	-	0 sqft	0	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	382	-	47 sqft	483	-
Floor Convection	591 sqft	1583	-	591 sqft	398	-
Interior Wall Convection	982 sqft	2090	-	982 sqft	463	-
Ceiling Convection	591 sqft	1935	-	591 sqft	1368	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	21 CFM	2429	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	954	0	15%	828	0
>> Total Zone Loads	-	7311	0	-	6347	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 39 4E 429 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT AUGUST 10:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	76.6	0.01351	100	400	32	1165
Air-to-Air Energy Recovery	Outlet	75.3	0.01351	100	400	141	0
Vent - Return Mixing	Outlet	75.1	0.01164	415	400	-	-
Central Cooling Coil	Outlet	60.3	0.01090	415	400	6755	1494
Central Heating Coil	Outlet	60.3	0.01090	415	400	0	-
Supply Fan	Outlet	60.3	0.01090	415	400	0	-
Cold Supply Duct	Outlet	60.3	0.01090	415	400	-	-
Zone Air	-	75.0	0.01099	415	400	6714	162
Return Air	Outlet	75.0	0.01105	415	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 429	6713	Cooling	6714	75.0	415	400	0	0

System Psychrometrics for 39 4E 429 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:02 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-1841	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	100	400	-7870	0
Vent - Return Mixing	Outlet	65.9	0.00026	415	400	-	-
Central Cooling Coil	Outlet	65.9	0.00026	415	400	0	0
Central Heating Coil	Outlet	84.5	0.00026	415	400	8323	-
Supply Fan	Outlet	84.5	0.00026	415	400	0	-
Cold Supply Duct	Outlet	84.5	0.00026	415	400	-	-
Zone Air	-	70.0	0.00026	415	400	-6477	0
Return Air	Outlet	70.0	0.00026	415	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 429	-6477	Heating	-6477	70.0	415	400	0	0

Air System Sizing Summary for 40 4E 430 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:02 PM

Air System Information

Air System Name **40 4E 430 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **993.5** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.1** Tons
Total coil load **13.0** MBH
Sensible coil load **11.4** MBH
Coil CFM at peak load **723** CFM
Sum of peak zone CFM **723** CFM
Sensible heat ratio **0.878**
CFM/Ton **669.6**
sqft/Ton **919.6**
BTU/(hr sqft) **13.0**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 10:00**
OA DB / WB **76.4 / 68.9** F
Entering DB / WB **75.0 / 65.8** F
Leaving DB / WB **60.8 / 60.2** F
Resulting RH **60** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **21.1** MBH
Coil CFM at Design Heating **723** CFM
Max coil CFM **723** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **21.2**
Ent. DB / Lvg DB **67.6 / 94.7** F

Supply Fan Sizing Data

Design CFM **723** CFM
Design CFM/sqft **0.73** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.10** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 40 4E 430 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:02 PM

Air System Information

Air System Name **40 4E 430 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **993.5** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 430	723	723	0.73	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 430	12.7	September 11:00	19.5	993.5

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 430						
4E 430	12.7	September 11:00	723	19.5	993.5	0.73

Air System Heat Balance Summary for 40 4E 430 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:02 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 10:00			DESIGN HEATING		
	OA DB / WB 76.4 F / 68.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	11342	233	-	19258	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	723 CFM	0	-	723 CFM	0	-
Ventilation Load	100 CFM	32	1120	100 CFM	1841	0
Supply Fan Load	723 CFM	0	-	723 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	11374	1352	-	21099	0
Central Cooling Coil	-	11383	1582	-	0	0
Central Heating Coil	-	0	-	-	21104	-
>> Total Conditioning	-	11383	1582	-	21104	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 10:00			DESIGN HEATING		
	OA DB / WB 76.4 F / 68.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	680 sqft	1312	-	680 sqft	1916	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	343	-	66 sqft	691	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	388	-	47 sqft	501	-
Floor Convection	994 sqft	4338	-	994 sqft	1095	-
Interior Wall Convection	667 sqft	1251	-	667 sqft	483	-
Ceiling Convection	994 sqft	2947	-	994 sqft	2989	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	79 CFM	9256	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	1587	0	15%	2540	0
>> Total Zone Loads	-	12167	0	-	19470	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 40 4E 430 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:03 PM

DESIGN COOLING DAY AT AUGUST 10:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	76.6	0.01351	100	400	32	1120
Air-to-Air Energy Recovery	Outlet	75.3	0.01351	100	400	142	0
Vent - Return Mixing	Outlet	75.0	0.01147	723	400	-	-
Central Cooling Coil	Outlet	60.8	0.01102	723	400	11383	1582
Central Heating Coil	Outlet	60.8	0.01102	723	400	0	-
Supply Fan	Outlet	60.8	0.01102	723	400	0	-
Cold Supply Duct	Outlet	60.8	0.01102	723	400	-	-
Zone Air	-	75.0	0.01109	723	400	11342	233
Return Air	Outlet	75.0	0.01114	723	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 430	11340	Cooling	11342	75.0	723	400	0	0

System Psychrometrics for 40 4E 430 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-1841	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	100	400	-7870	0
Vent - Return Mixing	Outlet	67.6	0.00026	723	400	-	-
Central Cooling Coil	Outlet	67.6	0.00026	723	400	0	0
Central Heating Coil	Outlet	94.7	0.00026	723	400	21104	-
Supply Fan	Outlet	94.7	0.00026	723	400	0	-
Cold Supply Duct	Outlet	94.7	0.00026	723	400	-	-
Zone Air	-	70.0	0.00026	723	400	-19258	0
Return Air	Outlet	70.0	0.00026	723	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 430	-19258	Heating	-19258	70.0	723	400	0	0

Air System Sizing Summary for 41 4E 431 à 435 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:03 PM

Air System Information

Air System Name **41 4E 431 à 435 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **3285.9** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **5.6** Tons
Total coil load **67.1** MBH
Sensible coil load **58.5** MBH
Coil CFM at peak load **3459** CFM
Sum of peak zone CFM **3459** CFM
Sensible heat ratio **0.871**
CFM/Ton **618.8**
sqft/Ton **587.8**
BTU/(hr sqft) **20.4**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 15:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **75.3 / 65.6** F
Leaving DB / WB **60.0 / 59.5** F
Resulting RH **58** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **51.1** MBH
Coil CFM at Design Heating **3459** CFM
Max coil CFM **3459** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **15.5**
Ent. DB / Lvg DB **67.5 / 81.2** F

Supply Fan Sizing Data

Design CFM **3459** CFM
Design CFM/sqft **1.05** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **500** CFM
CFM/sqft **0.15** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 41 4E 431 à 435 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **41 4E 431 à 435 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **3285.9** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 431 à 435	3459	3459	1.05	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 431 à 435	63.3	September 15:00	40.9	3285.9

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 431 à 435						
4E 431 à 435	63.3	September 15:00	3459	40.9	3285.9	1.05

Air System Heat Balance Summary for 41 4E 431 à 435 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	57240	1054	-	41848	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	3459 CFM	0	-	3459 CFM	0	-
Ventilation Load	500 CFM	1128	6150	500 CFM	9204	0
Supply Fan Load	3459 CFM	0	-	3459 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	58367	7204	-	51052	0
Central Cooling Coil	-	58460	8628	-	0	0
Central Heating Coil	-	0	-	-	51078	-
>> Total Conditioning	-	58460	8628	-	51078	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	941 sqft	3137	-	941 sqft	2408	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	165 sqft	1775	-	165 sqft	1666	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	237 sqft	2551	-	237 sqft	2392	-
Floor Convection	3286 sqft	21257	-	3286 sqft	3206	-
Interior Wall Convection	1953 sqft	5560	-	1953 sqft	1303	-
Ceiling Convection	3286 sqft	17546	-	3286 sqft	8893	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	134 CFM	15665	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	7774	0	15%	5330	0
>> Total Zone Loads	-	59600	0	-	40863	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 41 4E 431 à 435 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT AUGUST 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	500	400	1128	6150
Air-to-Air Energy Recovery	Outlet	77.1	0.01352	500	400	4916	0
Vent - Return Mixing	Outlet	75.3	0.01130	3459	400	-	-
Central Cooling Coil	Outlet	60.0	0.01079	3459	400	58460	8628
Central Heating Coil	Outlet	60.0	0.01079	3459	400	0	-
Supply Fan	Outlet	60.0	0.01079	3459	400	0	-
Cold Supply Duct	Outlet	60.0	0.01079	3459	400	-	-
Zone Air	-	75.0	0.01086	3459	400	57240	1054
Return Air	Outlet	75.0	0.01092	3459	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 431 à 435	57230	Cooling	57240	75.0	3459	400	0	0

System Psychrometrics for 41 4E 431 à 435 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	500	400	-9204	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	500	400	-39349	0
Vent - Return Mixing	Outlet	67.5	0.00026	3459	400	-	-
Central Cooling Coil	Outlet	67.5	0.00026	3459	400	0	0
Central Heating Coil	Outlet	81.2	0.00026	3459	400	51078	-
Supply Fan	Outlet	81.2	0.00026	3459	400	0	-
Cold Supply Duct	Outlet	81.2	0.00026	3459	400	-	-
Zone Air	-	70.0	0.00026	3459	400	-41848	0
Return Air	Outlet	70.0	0.00026	3459	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 431 à 435	-41848	Heating	-41848	70.0	3459	400	0	0

Air System Sizing Summary for 42 4E 436 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **42 4E 436 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **856.0** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.6** Tons
Total coil load **19.1** MBH
Sensible coil load **17.8** MBH
Coil CFM at peak load **1019** CFM
Sum of peak zone CFM **1019** CFM
Sensible heat ratio **0.933**
CFM/Ton **640.3**
sqft/Ton **537.9**
BTU/(hr sqft) **22.3**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **September 15:00**
OA DB / WB **80.1 / 68.8** F
Entering DB / WB **75.1 / 64.7** F
Leaving DB / WB **59.2 / 58.7** F
Resulting RH **56** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **13.8** MBH
Coil CFM at Design Heating **1019** CFM
Max coil CFM **1019** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **16.1**
Ent. DB / Lvg DB **68.3 / 80.8** F

Supply Fan Sizing Data

Design CFM **1019** CFM
Design CFM/sqft **1.19** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.12** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 42 4E 436 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

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Air System Information

Air System Name **42 4E 436 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **856.0** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 436	1019	1019	1.19	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 436	18.6	September 15:00	11.7	856.0

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 436						
4E 436	18.6	September 15:00	1019	11.7	856.0	1.19

Air System Heat Balance Summary for 42 4E 436 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - SEPTEMBER 15:00			DESIGN HEATING		
	OA DB / WB 80.1 F / 68.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	17708	107	-	11905	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	1019 CFM	0	-	1019 CFM	0	-
Ventilation Load	100 CFM	103	972	100 CFM	1841	0
Supply Fan Load	1019 CFM	0	-	1019 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	17811	1079	-	13746	0
Central Cooling Coil	-	17822	1276	-	0	0
Central Heating Coil	-	0	-	-	13752	-
>> Total Conditioning	-	17822	1276	-	13752	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - SEPTEMBER 15:00			DESIGN HEATING		
	OA DB / WB 80.1 F / 68.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	277 sqft	1085	-	277 sqft	706	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	747	-	66 sqft	663	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	532	-	47 sqft	471	-
Floor Convection	856 sqft	5609	-	856 sqft	810	-
Interior Wall Convection	1001 sqft	3463	-	1001 sqft	643	-
Ceiling Convection	856 sqft	4779	-	856 sqft	2327	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	39 CFM	4554	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	2432	0	15%	1526	0
>> Total Zone Loads	-	18648	0	-	11699	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 42 4E 436 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT SEPTEMBER 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	80.0	0.01255	100	400	103	972
Air-to-Air Energy Recovery	Outlet	76.0	0.01255	100	400	448	0
Vent - Return Mixing	Outlet	75.1	0.01070	1019	400	-	-
Central Cooling Coil	Outlet	59.2	0.01044	1019	400	17822	1276
Central Heating Coil	Outlet	59.2	0.01044	1019	400	0	-
Supply Fan	Outlet	59.2	0.01044	1019	400	0	-
Cold Supply Duct	Outlet	59.2	0.01044	1019	400	-	-
Zone Air	-	75.0	0.01046	1019	400	17708	107
Return Air	Outlet	75.0	0.01050	1019	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 436	17707	Cooling	17709	75.0	1019	400	0	0

System Psychrometrics for 42 4E 436 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-1841	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	100	400	-7870	0
Vent - Return Mixing	Outlet	68.3	0.00026	1019	400	-	-
Central Cooling Coil	Outlet	68.3	0.00026	1019	400	0	0
Central Heating Coil	Outlet	80.8	0.00026	1019	400	13752	-
Supply Fan	Outlet	80.8	0.00026	1019	400	0	-
Cold Supply Duct	Outlet	80.8	0.00026	1019	400	-	-
Zone Air	-	70.0	0.00026	1019	400	-11905	0
Return Air	Outlet	70.0	0.00026	1019	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 436	-11905	Heating	-11905	70.0	1019	400	0	0

Air System Sizing Summary for 43 4E 437 et 438 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **43 4E 437 et 438 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **1143.4** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.6** Tons
Total coil load **18.6** MBH
Sensible coil load **15.4** MBH
Coil CFM at peak load **918** CFM
Sum of peak zone CFM **918** CFM
Sensible heat ratio **0.825**
CFM/Ton **590.4**
sqft/Ton **735.7**
BTU/(hr sqft) **16.3**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 15:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **75.5 / 66.2** F
Leaving DB / WB **60.3 / 59.9** F
Resulting RH **59** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **15.9** MBH
Coil CFM at Design Heating **918** CFM
Max coil CFM **918** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **13.9**
Ent. DB / Lvg DB **66.3 / 82.3** F

Supply Fan Sizing Data

Design CFM **918** CFM
Design CFM/sqft **0.80** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **200** CFM
CFM/sqft **0.17** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 43 4E 437 et 438 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **43 4E 437 et 438 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **1143.4** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E 437 et 438	918	918	0.80	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E 437 et 438	16.8	September 15:00	11.8	1143.4

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E 437 et 438						
4E 437 et 438	16.8	September 15:00	918	11.8	1143.4	0.80

Air System Heat Balance Summary for 43 4E 437 et 438 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	14898	497	-	12174	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	918 CFM	0	-	918 CFM	0	-
Ventilation Load	200 CFM	451	2262	200 CFM	3682	0
Supply Fan Load	918 CFM	0	-	918 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	15349	2760	-	15856	0
Central Cooling Coil	-	15384	3265	-	0	0
Central Heating Coil	-	0	-	-	15866	-
>> Total Conditioning	-	15384	3265	-	15866	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	289 sqft	853	-	289 sqft	686	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	0 sqft	0	-	0 sqft	0	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	95 sqft	888	-	95 sqft	949	-
Floor Convection	1143 sqft	3489	-	1143 sqft	816	-
Interior Wall Convection	1378 sqft	3369	-	1378 sqft	702	-
Ceiling Convection	1143 sqft	5188	-	1143 sqft	2674	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	38 CFM	4469	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	2068	0	15%	1544	0
>> Total Zone Loads	-	15854	0	-	11841	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 43 4E 437 et 438 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:04 PM

DESIGN COOLING DAY AT AUGUST 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	200	400	451	2262
Air-to-Air Energy Recovery	Outlet	77.1	0.01352	200	400	1967	0
Vent - Return Mixing	Outlet	75.5	0.01165	918	400	-	-
Central Cooling Coil	Outlet	60.3	0.01093	918	400	15384	3265
Central Heating Coil	Outlet	60.3	0.01093	918	400	0	-
Supply Fan	Outlet	60.3	0.01093	918	400	0	-
Cold Supply Duct	Outlet	60.3	0.01093	918	400	-	-
Zone Air	-	75.0	0.01104	918	400	14898	497
Return Air	Outlet	75.0	0.01113	918	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 437 et 438	14894	Cooling	14898	75.0	918	400	0	0

System Psychrometrics for 43 4E 437 et 438 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	200	400	-3682	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	200	400	-15740	0
Vent - Return Mixing	Outlet	66.3	0.00026	918	400	-	-
Central Cooling Coil	Outlet	66.3	0.00026	918	400	0	0
Central Heating Coil	Outlet	82.3	0.00026	918	400	15866	-
Supply Fan	Outlet	82.3	0.00026	918	400	0	-
Cold Supply Duct	Outlet	82.3	0.00026	918	400	-	-
Zone Air	-	70.0	0.00026	918	400	-12174	0
Return Air	Outlet	70.0	0.00026	918	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E 437 et 438	-12174	Heating	-12174	70.0	918	400	0	0

Air System Sizing Summary for 44 4E salle commune 457 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:04 PM

Air System Information

Air System Name **44 4E salle commune 457 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **193.7** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.4** Tons
Total coil load **4.6** MBH
Sensible coil load **4.0** MBH
Coil CFM at peak load **246** CFM
Sum of peak zone CFM **246** CFM
Sensible heat ratio **0.867**
CFM/Ton **635.8**
sqft/Ton **500.9**
BTU/(hr sqft) **24.0**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 10:00**
OA DB / WB **76.4 / 68.9** F
Entering DB / WB **75.0 / 65.6** F
Leaving DB / WB **60.2 / 59.7** F
Resulting RH **59** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **4.7** MBH
Coil CFM at Design Heating **246** CFM
Max coil CFM **246** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **24.5**
Ent. DB / Lvg DB **67.4 / 85.3** F

Supply Fan Sizing Data

Design CFM **246** CFM
Design CFM/sqft **1.27** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **37** CFM
CFM/sqft **0.19** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 44 4E salle commune 457 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **44 4E salle commune 457 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **193.7** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
4E salle commune 457	246	246	1.27	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
4E salle commune 457	4.5	September 10:00	4.1	193.7

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
4E salle commune 457						
4E salle commune 457	4.5	September 10:00	246	4.1	193.7	1.27

Air System Heat Balance Summary for 44 4E salle commune 457 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 10:00			DESIGN HEATING		
	OA DB / WB 76.4 F / 68.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	4009	66	-	4055	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	246 CFM	0	-	246 CFM	0	-
Ventilation Load	37 CFM	12	446	37 CFM	681	0
Supply Fan Load	246 CFM	0	-	246 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	4021	512	-	4736	0
Central Cooling Coil	-	4024	617	-	0	0
Central Heating Coil	-	0	-	-	4738	-
>> Total Conditioning	-	4024	617	-	4738	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 10:00			DESIGN HEATING		
	OA DB / WB 76.4 F / 68.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	132 sqft	395	-	132 sqft	350	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	28 sqft	264	-	28 sqft	289	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	0 sqft	0	-	0 sqft	0	-
Floor Convection	194 sqft	686	-	194 sqft	172	-
Interior Wall Convection	505 sqft	1472	-	505 sqft	307	-
Ceiling Convection	194 sqft	829	-	194 sqft	547	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	16 CFM	1861	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	547	0	15%	529	0
>> Total Zone Loads	-	4193	0	-	4056	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 44 4E salle commune 457 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT AUGUST 10:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	76.6	0.01351	37	400	12	446
Air-to-Air Energy Recovery	Outlet	75.3	0.01351	37	400	52	0
Vent - Return Mixing	Outlet	75.0	0.01135	246	400	-	-
Central Cooling Coil	Outlet	60.2	0.01083	246	400	4024	617
Central Heating Coil	Outlet	60.2	0.01083	246	400	0	-
Supply Fan	Outlet	60.2	0.01083	246	400	0	-
Cold Supply Duct	Outlet	60.2	0.01083	246	400	-	-
Zone Air	-	75.0	0.01089	246	400	4009	66
Return Air	Outlet	75.0	0.01096	246	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E salle commune 457	4008	Cooling	4009	75.0	246	400	0	0

System Psychrometrics for 44 4E salle commune 457 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	37	400	-681	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	37	400	-2912	0
Vent - Return Mixing	Outlet	67.4	0.00026	246	400	-	-
Central Cooling Coil	Outlet	67.4	0.00026	246	400	0	0
Central Heating Coil	Outlet	85.3	0.00026	246	400	4738	-
Supply Fan	Outlet	85.3	0.00026	246	400	0	-
Cold Supply Duct	Outlet	85.3	0.00026	246	400	-	-
Zone Air	-	70.0	0.00026	246	400	-4055	0
Return Air	Outlet	70.0	0.00026	246	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
4E salle commune 457	-4055	Heating	-4055	70.0	246	400	0	0

Air System Sizing Summary for 45 RDC 101 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:04 PM

Air System Information

Air System Name **45 RDC 101 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **845.6** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.6** Tons
Total coil load **19.1** MBH
Sensible coil load **17.8** MBH
Coil CFM at peak load **1010** CFM
Sum of peak zone CFM **1010** CFM
Sensible heat ratio **0.930**
CFM/Ton **634.0**
sqft/Ton **531.1**
BTU/(hr sqft) **22.6**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **September 15:00**
OA DB / WB **80.1 / 68.8** F
Entering DB / WB **75.1 / 64.7** F
Leaving DB / WB **59.1 / 58.6** F
Resulting RH **56** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **13.0** MBH
Coil CFM at Design Heating **1010** CFM
Max coil CFM **1010** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **15.3**
Ent. DB / Lvg DB **68.3 / 80.2** F

Supply Fan Sizing Data

Design CFM **1010** CFM
Design CFM/sqft **1.19** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.12** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 45 RDC 101 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **45 RDC 101 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **845.6** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC 101	1010	1010	1.19	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC 101	18.5	September 15:00	11.0	845.6

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC 101						
RDC 101	18.5	September 15:00	1010	11.0	845.6	1.19

Air System Heat Balance Summary for 45 RDC 101 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:04 PM

Table 1. System Loads

	DESIGN COOLING - SEPTEMBER 15:00			DESIGN HEATING		
	OA DB / WB 80.1 F / 68.8 F			OA DB / WB -20.0 F / -20.0 F		
COMPONENT LOADS	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	17647	130	-	11129	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	1010 CFM	0	-	1010 CFM	0	-
Ventilation Load	100 CFM	103	979	100 CFM	1841	0
Supply Fan Load	1010 CFM	0	-	1010 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	17750	1109	-	12970	0
Central Cooling Coil	-	17761	1346	-	0	0
Central Heating Coil	-	0	-	-	12975	-
>> Total Conditioning	-	17761	1346	-	12975	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

	DESIGN COOLING - SEPTEMBER 15:00			DESIGN HEATING		
	OA DB / WB 80.1 F / 68.8 F			OA DB / WB -20.0 F / -20.0 F		
Zone Heat Balance Component	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	240 sqft	1015	-	240 sqft	587	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	767	-	66 sqft	642	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	551	-	47 sqft	460	-
Floor Convection	846 sqft	5729	-	846 sqft	2415	-
Interior Wall Convection	905 sqft	3324	-	905 sqft	455	-
Ceiling Convection	846 sqft	4680	-	846 sqft	890	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	35 CFM	4123	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	2410	0	15%	1436	0
>> Total Zone Loads	-	18475	0	-	11007	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 45 RDC 101 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:04 PM

DESIGN COOLING DAY AT SEPTEMBER 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	80.0	0.01255	100	400	103	979
Air-to-Air Energy Recovery	Outlet	76.0	0.01255	100	400	448	0
Vent - Return Mixing	Outlet	75.1	0.01069	1010	400	-	-
Central Cooling Coil	Outlet	59.1	0.01041	1010	400	17761	1346
Central Heating Coil	Outlet	59.1	0.01041	1010	400	0	-
Supply Fan	Outlet	59.1	0.01041	1010	400	0	-
Cold Supply Duct	Outlet	59.1	0.01041	1010	400	-	-
Zone Air	-	75.0	0.01044	1010	400	17647	130
Return Air	Outlet	75.0	0.01048	1010	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 101	17645	Cooling	17647	75.0	1010	400	0	0

System Psychrometrics for 45 RDC 101 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-1841	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	100	400	-7870	0
Vent - Return Mixing	Outlet	68.3	0.00026	1010	400	-	-
Central Cooling Coil	Outlet	68.3	0.00026	1010	400	0	0
Central Heating Coil	Outlet	80.2	0.00026	1010	400	12975	-
Supply Fan	Outlet	80.2	0.00026	1010	400	0	-
Cold Supply Duct	Outlet	80.2	0.00026	1010	400	-	-
Zone Air	-	70.0	0.00026	1010	400	-11129	0
Return Air	Outlet	70.0	0.00026	1010	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 101	-11129	Heating	-11129	70.0	1010	400	0	0

Air System Sizing Summary for 46 RDC 102 et 103 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:04 PM

Air System Information

Air System Name **46 RDC 102 et 103 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **1151.2** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.5** Tons
Total coil load **17.8** MBH
Sensible coil load **15.5** MBH
Coil CFM at peak load **895** CFM
Sum of peak zone CFM **895** CFM
Sensible heat ratio **0.871**
CFM/Ton **604.6**
sqft/Ton **777.7**
BTU/(hr sqft) **15.4**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **September 15:00**
OA DB / WB **80.1 / 68.8** F
Entering DB / WB **75.2 / 65.3** F
Leaving DB / WB **59.5 / 59.1** F
Resulting RH **57** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **14.9** MBH
Coil CFM at Design Heating **895** CFM
Max coil CFM **895** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **12.9**
Ent. DB / Lvg DB **66.2 / 81.6** F

Supply Fan Sizing Data

Design CFM **895** CFM
Design CFM/sqft **0.78** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **200** CFM
CFM/sqft **0.17** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 46 RDC 102 et 103 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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2:04 PM

Air System Information

Air System Name **46 RDC 102 et 103 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **1151.2** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC 102 et 103	895	895	0.78	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC 102 et 103	16.4	September 15:00	11.1	1151.2

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC 102 et 103						
RDC 102 et 103	16.4	September 15:00	895	11.1	1151.2	0.78

Air System Heat Balance Summary for 46 RDC 102 et 103 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - SEPTEMBER 15:00			DESIGN HEATING		
	OA DB / WB 80.1 F / 68.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	15250	247	-	11173	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	895 CFM	0	-	895 CFM	0	-
Ventilation Load	200 CFM	206	1741	200 CFM	3682	0
Supply Fan Load	895 CFM	0	-	895 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	15456	1988	-	14855	0
Central Cooling Coil	-	15476	2288	-	0	0
Central Heating Coil	-	0	-	-	14865	-
>> Total Conditioning	-	15476	2288	-	14865	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - SEPTEMBER 15:00			DESIGN HEATING		
	OA DB / WB 80.1 F / 68.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	263 sqft	892	-	263 sqft	588	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	0 sqft	0	-	0 sqft	0	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	95 sqft	926	-	95 sqft	923	-
Floor Convection	1151 sqft	3851	-	1151 sqft	2591	-
Interior Wall Convection	1245 sqft	3496	-	1245 sqft	448	-
Ceiling Convection	1151 sqft	5078	-	1151 sqft	921	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	36 CFM	4170	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	2136	0	15%	1446	0
>> Total Zone Loads	-	16380	0	-	11087	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 46 RDC 102 et 103 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT SEPTEMBER 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	80.0	0.01255	200	400	206	1741
Air-to-Air Energy Recovery	Outlet	76.0	0.01255	200	400	896	0
Vent - Return Mixing	Outlet	75.2	0.01112	895	400	-	-
Central Cooling Coil	Outlet	59.5	0.01060	895	400	15476	2288
Central Heating Coil	Outlet	59.5	0.01060	895	400	0	-
Supply Fan	Outlet	59.5	0.01060	895	400	0	-
Cold Supply Duct	Outlet	59.5	0.01060	895	400	-	-
Zone Air	-	75.0	0.01066	895	400	15250	247
Return Air	Outlet	75.0	0.01071	895	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 102 et 103	15248	Cooling	15250	75.0	895	400	0	0

System Psychrometrics for 46 RDC 102 et 103 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	200	400	-3682	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	200	400	-15740	0
Vent - Return Mixing	Outlet	66.2	0.00026	895	400	-	-
Central Cooling Coil	Outlet	66.2	0.00026	895	400	0	0
Central Heating Coil	Outlet	81.6	0.00026	895	400	14865	-
Supply Fan	Outlet	81.6	0.00026	895	400	0	-
Cold Supply Duct	Outlet	81.6	0.00026	895	400	-	-
Zone Air	-	70.0	0.00026	895	400	-11173	0
Return Air	Outlet	70.0	0.00026	895	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 102 et 103	-11173	Heating	-11173	70.0	895	400	0	0

Air System Sizing Summary for 47 RDC 104 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **47 RDC 104 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **972.9** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.6** Tons
Total coil load **19.5** MBH
Sensible coil load **18.0** MBH
Coil CFM at peak load **1029** CFM
Sum of peak zone CFM **1029** CFM
Sensible heat ratio **0.924**
CFM/Ton **632.7**
sqft/Ton **598.1**
BTU/(hr sqft) **20.1**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **September 15:00**
OA DB / WB **80.1 / 68.8** F
Entering DB / WB **75.1 / 64.7** F
Leaving DB / WB **59.2 / 58.7** F
Resulting RH **56** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **14.2** MBH
Coil CFM at Design Heating **1029** CFM
Max coil CFM **1029** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **14.6**
Ent. DB / Lvg DB **68.3 / 81.1** F

Supply Fan Sizing Data

Design CFM **1029** CFM
Design CFM/sqft **1.06** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.10** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 47 RDC 104 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **47 RDC 104 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **972.9** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC 104	1029	1029	1.06	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC 104	18.8	September 15:00	12.3	972.9

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC 104						
RDC 104	18.8	September 15:00	1029	12.3	972.9	1.06

Air System Heat Balance Summary for 47 RDC 104 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

	DESIGN COOLING - SEPTEMBER 15:00			DESIGN HEATING		
	OA DB / WB 80.1 F / 68.8 F			OA DB / WB -20.0 F / -20.0 F		
COMPONENT LOADS	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	17930	211	-	12386	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	1029 CFM	0	-	1029 CFM	0	-
Ventilation Load	100 CFM	103	954	100 CFM	1841	0
Supply Fan Load	1029 CFM	0	-	1029 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	18033	1165	-	14227	0
Central Cooling Coil	-	18043	1476	-	0	0
Central Heating Coil	-	0	-	-	14232	-
>> Total Conditioning	-	18043	1476	-	14232	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

	DESIGN COOLING - SEPTEMBER 15:00			DESIGN HEATING		
	OA DB / WB 80.1 F / 68.8 F			OA DB / WB -20.0 F / -20.0 F		
Zone Heat Balance Component	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	290 sqft	1076	-	290 sqft	699	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	737	-	66 sqft	645	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	528	-	47 sqft	462	-
Floor Convection	973 sqft	6145	-	973 sqft	2723	-
Interior Wall Convection	954 sqft	3055	-	954 sqft	465	-
Ceiling Convection	973 sqft	4834	-	973 sqft	982	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	40 CFM	4703	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	2456	0	15%	1602	0
>> Total Zone Loads	-	18833	0	-	12281	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 47 RDC 104 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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DESIGN COOLING DAY AT SEPTEMBER 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	80.0	0.01255	100	400	103	954
Air-to-Air Energy Recovery	Outlet	76.0	0.01255	100	400	448	0
Vent - Return Mixing	Outlet	75.1	0.01073	1029	400	-	-
Central Cooling Coil	Outlet	59.2	0.01044	1029	400	18043	1476
Central Heating Coil	Outlet	59.2	0.01044	1029	400	0	-
Supply Fan	Outlet	59.2	0.01044	1029	400	0	-
Cold Supply Duct	Outlet	59.2	0.01044	1029	400	-	-
Zone Air	-	75.0	0.01048	1029	400	17930	211
Return Air	Outlet	75.0	0.01053	1029	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 104	17928	Cooling	17930	75.0	1029	400	0	0

System Psychrometrics for 47 RDC 104 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-1841	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	100	400	-7870	0
Vent - Return Mixing	Outlet	68.3	0.00026	1029	400	-	-
Central Cooling Coil	Outlet	68.3	0.00026	1029	400	0	0
Central Heating Coil	Outlet	81.1	0.00026	1029	400	14232	-
Supply Fan	Outlet	81.1	0.00026	1029	400	0	-
Cold Supply Duct	Outlet	81.1	0.00026	1029	400	-	-
Zone Air	-	70.0	0.00026	1029	400	-12386	0
Return Air	Outlet	70.0	0.00026	1029	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 104	-12386	Heating	-12386	70.0	1029	400	0	0

Air System Sizing Summary for 48 RDC 105 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:05 PM

Air System Information

Air System Name **48 RDC 105 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **661.3** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.6** Tons
Total coil load **7.4** MBH
Sensible coil load **6.4** MBH
Coil CFM at peak load **520** CFM
Sum of peak zone CFM **520** CFM
Sensible heat ratio **0.871**
CFM/Ton **848.6**
sqft/Ton **1079.3**
BTU/(hr sqft) **11.1**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 17:00**
OA DB / WB **85.0 / 71.5** F
Entering DB / WB **75.4 / 67.5** F
Leaving DB / WB **64.2 / 63.4** F
Resulting RH **67** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **15.8** MBH
Coil CFM at Design Heating **520** CFM
Max coil CFM **520** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **23.9**
Ent. DB / Lvg DB **66.7 / 94.8** F

Supply Fan Sizing Data

Design CFM **520** CFM
Design CFM/sqft **0.79** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.15** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 48 RDC 105 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **48 RDC 105 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **661.3** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC 105	520	520	0.79	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC 105	7.0	June 18:00	14.0	661.3

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC 105						
RDC 105	7.0	June 18:00	520	14.0	661.3	0.79

Air System Heat Balance Summary for 48 RDC 105 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 17:00			DESIGN HEATING		
	OA DB / WB 85.0 F / 71.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	6195	227	-	13944	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	520 CFM	0	-	520 CFM	0	-
Ventilation Load	100 CFM	202	496	100 CFM	1841	0
Supply Fan Load	520 CFM	0	-	520 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	6397	723	-	15785	0
Central Cooling Coil	-	6406	946	-	0	0
Central Heating Coil	-	0	-	-	15790	-
>> Total Conditioning	-	6406	946	-	15790	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 17:00			DESIGN HEATING		
	OA DB / WB 85.0 F / 71.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	427 sqft	881	-	427 sqft	1201	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	49 sqft	123	-	49 sqft	536	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	317	-	47 sqft	524	-
Floor Convection	661 sqft	1926	-	661 sqft	2610	-
Interior Wall Convection	524 sqft	770	-	524 sqft	345	-
Ceiling Convection	661 sqft	1697	-	661 sqft	843	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	52 CFM	6109	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	857	0	15%	1825	0
>> Total Zone Loads	-	6570	0	-	13992	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 48 RDC 105 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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DESIGN COOLING DAY AT JULY 17:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	84.9	0.01353	100	400	202	496
Air-to-Air Energy Recovery	Outlet	76.9	0.01353	100	400	884	0
Vent - Return Mixing	Outlet	75.4	0.01268	520	400	-	-
Central Cooling Coil	Outlet	64.2	0.01231	520	400	6406	946
Central Heating Coil	Outlet	64.2	0.01231	520	400	0	-
Supply Fan	Outlet	64.2	0.01231	520	400	0	-
Cold Supply Duct	Outlet	64.2	0.01231	520	400	-	-
Zone Air	-	75.0	0.01240	520	400	6195	227
Return Air	Outlet	75.0	0.01248	520	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 105	6193	Cooling	6195	75.0	520	400	0	0

System Psychrometrics for 48 RDC 105 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-1841	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	100	400	-7870	0
Vent - Return Mixing	Outlet	66.7	0.00026	520	400	-	-
Central Cooling Coil	Outlet	66.7	0.00026	520	400	0	0
Central Heating Coil	Outlet	94.8	0.00026	520	400	15790	-
Supply Fan	Outlet	94.8	0.00026	520	400	0	-
Cold Supply Duct	Outlet	94.8	0.00026	520	400	-	-
Zone Air	-	70.0	0.00026	520	400	-13944	0
Return Air	Outlet	70.0	0.00026	520	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 105	-13944	Heating	-13944	70.0	520	400	0	0

Air System Sizing Summary for 49 RDC 106 à 109 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **49 RDC 106 à 109 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **2602.0** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **2.7** Tons
Total coil load **32.7** MBH
Sensible coil load **27.1** MBH
Coil CFM at peak load **1796** CFM
Sum of peak zone CFM **1796** CFM
Sensible heat ratio **0.828**
CFM/Ton **659.7**
sqft/Ton **955.5**
BTU/(hr sqft) **12.6**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 8:00**
OA DB / WB **70.0 / 66.9** F
Entering DB / WB **74.0 / 65.4** F
Leaving DB / WB **60.3 / 59.7** F
Resulting RH **59** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **38.5** MBH
Coil CFM at Design Heating **1796** CFM
Max coil CFM **1796** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **14.8**
Ent. DB / Lvg DB **66.2 / 86.0** F

Supply Fan Sizing Data

Design CFM **1796** CFM
Design CFM/sqft **0.69** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **400** CFM
CFM/sqft **0.15** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 49 RDC 106 à 109 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **49 RDC 106 à 109 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **2602.0** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC 106 à 109	1796	1796	0.69	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC 106 à 109	32.9	June 8:00	31.0	2602.0

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC 106 à 109						
RDC 106 à 109	32.9	June 8:00	1796	31.0	2602.0	0.69

Air System Heat Balance Summary for 49 RDC 106 à 109 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	29061	248	-	31109	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	1796 CFM	0	-	1796 CFM	0	-
Ventilation Load	400 CFM	-1984	4897	400 CFM	7363	0
Supply Fan Load	1796 CFM	0	-	1796 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	27077	5145	-	38473	0
Central Cooling Coil	-	27053	5624	-	0	0
Central Heating Coil	-	0	-	-	38493	-
>> Total Conditioning	-	27053	5624	-	38493	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	654 sqft	1224	-	654 sqft	1591	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	132 sqft	815	-	132 sqft	1320	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	190 sqft	1172	-	190 sqft	1895	-
Floor Convection	2602 sqft	11990	-	2602 sqft	7165	-
Interior Wall Convection	1527 sqft	3169	-	1527 sqft	789	-
Ceiling Convection	2602 sqft	9255	-	2602 sqft	2808	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	98 CFM	11381	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	4144	0	15%	4042	0
>> Total Zone Loads	-	31768	0	-	30991	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 49 RDC 106 à 109 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT JULY 8:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	70.4	0.01350	400	400	-1984	4897
Air-to-Air Energy Recovery	Outlet	70.4	0.01350	400	400	0	0
Vent - Return Mixing	Outlet	74.0	0.01148	1796	400	-	-
Central Cooling Coil	Outlet	60.3	0.01084	1796	400	27053	5624
Central Heating Coil	Outlet	60.3	0.01084	1796	400	0	-
Supply Fan	Outlet	60.3	0.01084	1796	400	0	-
Cold Supply Duct	Outlet	60.3	0.01084	1796	400	-	-
Zone Air	-	75.0	0.01087	1796	400	29061	248
Return Air	Outlet	75.0	0.01091	1796	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 106 à 109	29056	Cooling	29061	75.0	1796	400	0	0

System Psychrometrics for 49 RDC 106 à 109 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	400	400	-7363	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	400	400	-31479	0
Vent - Return Mixing	Outlet	66.2	0.00026	1796	400	-	-
Central Cooling Coil	Outlet	66.2	0.00026	1796	400	0	0
Central Heating Coil	Outlet	86.0	0.00026	1796	400	38493	-
Supply Fan	Outlet	86.0	0.00026	1796	400	0	-
Cold Supply Duct	Outlet	86.0	0.00026	1796	400	-	-
Zone Air	-	70.0	0.00026	1796	400	-31109	0
Return Air	Outlet	70.0	0.00026	1796	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 106 à 109	-31109	Heating	-31109	70.0	1796	400	0	0

Air System Sizing Summary for 50 RDC 110 et 111 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **50 RDC 110 et 111 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **1151.3** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.9** Tons
Total coil load **10.9** MBH
Sensible coil load **8.2** MBH
Coil CFM at peak load **583** CFM
Sum of peak zone CFM **583** CFM
Sensible heat ratio **0.753**
CFM/Ton **642.1**
sqft/Ton **1267.8**
BTU/(hr sqft) **9.5**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 8:00**
OA DB / WB **70.0 / 66.9** F
Entering DB / WB **73.4 / 65.9** F
Leaving DB / WB **60.7 / 60.1** F
Resulting RH **60** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **14.8** MBH
Coil CFM at Design Heating **583** CFM
Max coil CFM **583** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **12.9**
Ent. DB / Lvg DB **64.1 / 87.7** F

Supply Fan Sizing Data

Design CFM **583** CFM
Design CFM/sqft **0.51** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **200** CFM
CFM/sqft **0.17** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 50 RDC 110 et 111 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **50 RDC 110 et 111 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **1151.3** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC 110 et 111	583	583	0.51	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC 110 et 111	10.7	June 8:00	11.1	1151.3

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC 110 et 111						
RDC 110 et 111	10.7	June 8:00	583	11.1	1151.3	0.51

Air System Heat Balance Summary for 50 RDC 110 et 111 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	9206	225	-	11119	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	583 CFM	0	-	583 CFM	0	-
Ventilation Load	200 CFM	-992	2226	200 CFM	3682	0
Supply Fan Load	583 CFM	0	-	583 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	8214	2451	-	14800	0
Central Cooling Coil	-	8200	2697	-	0	0
Central Heating Coil	-	0	-	-	14811	-
>> Total Conditioning	-	8200	2697	-	14811	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	259 sqft	410	-	259 sqft	579	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	0 sqft	0	-	0 sqft	0	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	95 sqft	498	-	95 sqft	941	-
Floor Convection	1151 sqft	2506	-	1151 sqft	2583	-
Interior Wall Convection	1256 sqft	2215	-	1256 sqft	457	-
Ceiling Convection	1151 sqft	3282	-	1151 sqft	924	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	35 CFM	4128	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	1337	0	15%	1442	0
>> Total Zone Loads	-	10248	0	-	11055	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 50 RDC 110 et 111 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:06 PM

DESIGN COOLING DAY AT JULY 8:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	70.4	0.01350	200	400	-992	2226
Air-to-Air Energy Recovery	Outlet	70.4	0.01350	200	400	0	0
Vent - Return Mixing	Outlet	73.4	0.01195	583	400	-	-
Central Cooling Coil	Outlet	60.7	0.01100	583	400	8200	2697
Central Heating Coil	Outlet	60.7	0.01100	583	400	0	-
Supply Fan	Outlet	60.7	0.01100	583	400	0	-
Cold Supply Duct	Outlet	60.7	0.01100	583	400	-	-
Zone Air	-	75.0	0.01109	583	400	9206	225
Return Air	Outlet	75.0	0.01114	583	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 110 et 111	9204	Cooling	9206	75.0	583	400	0	0

System Psychrometrics for 50 RDC 110 et 111 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	200	400	-3682	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	200	400	-15740	0
Vent - Return Mixing	Outlet	64.1	0.00026	583	400	-	-
Central Cooling Coil	Outlet	64.1	0.00026	583	400	0	0
Central Heating Coil	Outlet	87.7	0.00026	583	400	14811	-
Supply Fan	Outlet	87.7	0.00026	583	400	0	-
Cold Supply Duct	Outlet	87.7	0.00026	583	400	-	-
Zone Air	-	70.0	0.00026	583	400	-11119	0
Return Air	Outlet	70.0	0.00026	583	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 110 et 111	-11119	Heating	-11119	70.0	583	400	0	0

Air System Sizing Summary for 51 RDC 112 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:06 PM

Air System Information

Air System Name **51 RDC 112 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **839.5** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.0** Tons
Total coil load **12.1** MBH
Sensible coil load **9.5** MBH
Coil CFM at peak load **667** CFM
Sum of peak zone CFM **667** CFM
Sensible heat ratio **0.784**
CFM/Ton **661.6**
sqft/Ton **833.1**
BTU/(hr sqft) **14.4**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 7:00**
OA DB / WB **68.8 / 66.5** F
Entering DB / WB **74.1 / 66.3** F
Leaving DB / WB **61.2 / 60.7** F
Resulting RH **62** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **12.9** MBH
Coil CFM at Design Heating **667** CFM
Max coil CFM **667** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **15.4**
Ent. DB / Lvg DB **67.4 / 85.4** F

Supply Fan Sizing Data

Design CFM **667** CFM
Design CFM/sqft **0.79** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.12** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 51 RDC 112 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:06 PM

Air System Information

Air System Name **51 RDC 112 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **839.5** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC 112	667	667	0.79	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC 112	12.2	June 8:00	11.0	839.5

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC 112						
RDC 112	12.2	June 8:00	667	11.0	839.5	0.79

Air System Heat Balance Summary for 51 RDC 112 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	10141	929	-	11085	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	667 CFM	0	-	667 CFM	0	-
Ventilation Load	100 CFM	-653	810	100 CFM	1841	0
Supply Fan Load	667 CFM	0	-	667 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	9488	1739	-	12926	0
Central Cooling Coil	-	9475	2617	-	0	0
Central Heating Coil	-	0	-	-	12931	-
>> Total Conditioning	-	9475	2617	-	12931	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	239 sqft	466	-	239 sqft	584	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	378	-	66 sqft	656	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	271	-	47 sqft	469	-
Floor Convection	839 sqft	2439	-	839 sqft	2414	-
Interior Wall Convection	904 sqft	2444	-	904 sqft	466	-
Ceiling Convection	839 sqft	3470	-	839 sqft	896	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	35 CFM	4104	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	1420	0	15%	1438	0
>> Total Zone Loads	-	10889	0	-	11027	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 51 RDC 112 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:06 PM

DESIGN COOLING DAY AT JULY 7:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	68.9	0.01349	100	400	-653	810
Air-to-Air Energy Recovery	Outlet	68.9	0.01349	100	400	0	0
Vent - Return Mixing	Outlet	74.1	0.01203	667	400	-	-
Central Cooling Coil	Outlet	61.2	0.01123	667	400	9475	2617
Central Heating Coil	Outlet	61.2	0.01123	667	400	0	-
Supply Fan	Outlet	61.2	0.01123	667	400	0	-
Cold Supply Duct	Outlet	61.2	0.01123	667	400	-	-
Zone Air	-	75.0	0.01153	667	400	10141	929
Return Air	Outlet	75.0	0.01178	667	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 112	10135	Cooling	10141	75.0	667	400	0	0

System Psychrometrics for 51 RDC 112 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-1841	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	100	400	-7870	0
Vent - Return Mixing	Outlet	67.4	0.00026	667	400	-	-
Central Cooling Coil	Outlet	67.4	0.00026	667	400	0	0
Central Heating Coil	Outlet	85.4	0.00026	667	400	12931	-
Supply Fan	Outlet	85.4	0.00026	667	400	0	-
Cold Supply Duct	Outlet	85.4	0.00026	667	400	-	-
Zone Air	-	70.0	0.00026	667	400	-11085	0
Return Air	Outlet	70.0	0.00026	667	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 112	-11085	Heating	-11085	70.0	667	400	0	0

Air System Sizing Summary for 52 RDC 113 à 117 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:07 PM

Air System Information

Air System Name **52 RDC 113 à 117 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **3265.4** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **3.4** Tons
Total coil load **40.9** MBH
Sensible coil load **33.8** MBH
Coil CFM at peak load **2240** CFM
Sum of peak zone CFM **2240** CFM
Sensible heat ratio **0.827**
CFM/Ton **657.5**
sqft/Ton **958.6**
BTU/(hr sqft) **12.5**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 8:00**
OA DB / WB **70.0 / 66.9** F
Entering DB / WB **74.0 / 65.4** F
Leaving DB / WB **60.3 / 59.7** F
Resulting RH **58** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **48.2** MBH
Coil CFM at Design Heating **2240** CFM
Max coil CFM **2240** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **14.8**
Ent. DB / Lvg DB **66.2 / 86.1** F

Supply Fan Sizing Data

Design CFM **2240** CFM
Design CFM/sqft **0.69** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **500** CFM
CFM/sqft **0.15** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 52 RDC 113 à 117 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:07 PM

Air System Information

Air System Name **52 RDC 113 à 117 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **3265.4** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC 113 à 117	2240	2240	0.69	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC 113 à 117	41.0	June 8:00	38.8	3265.4

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC 113 à 117						
RDC 113 à 117	41.0	June 8:00	2240	38.8	3265.4	0.69

Air System Heat Balance Summary for 52 RDC 113 à 117 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:07 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	36326	312	-	39007	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	2240 CFM	0	-	2240 CFM	0	-
Ventilation Load	500 CFM	-2480	6150	500 CFM	9204	0
Supply Fan Load	2240 CFM	0	-	2240 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	33846	6462	-	48211	0
Central Cooling Coil	-	33816	7062	-	0	0
Central Heating Coil	-	0	-	-	48237	-
>> Total Conditioning	-	33816	7062	-	48237	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	821 sqft	1540	-	821 sqft	1997	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	165 sqft	1015	-	165 sqft	1649	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	237 sqft	1463	-	237 sqft	2372	-
Floor Convection	3265 sqft	15083	-	3265 sqft	8999	-
Interior Wall Convection	1775 sqft	3679	-	1775 sqft	898	-
Ceiling Convection	3265 sqft	11651	-	3265 sqft	3536	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	122 CFM	14264	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	5165	0	15%	5057	0
>> Total Zone Loads	-	39596	0	-	38772	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 52 RDC 113 à 117 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT JULY 8:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	70.4	0.01350	500	400	-2480	6150
Air-to-Air Energy Recovery	Outlet	70.4	0.01350	500	400	0	0
Vent - Return Mixing	Outlet	74.0	0.01148	2240	400	-	-
Central Cooling Coil	Outlet	60.3	0.01083	2240	400	33816	7062
Central Heating Coil	Outlet	60.3	0.01083	2240	400	0	-
Supply Fan	Outlet	60.3	0.01083	2240	400	0	-
Cold Supply Duct	Outlet	60.3	0.01083	2240	400	-	-
Zone Air	-	75.0	0.01086	2240	400	36326	312
Return Air	Outlet	75.0	0.01090	2240	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 113 à 117	36320	Cooling	36327	75.0	2240	400	0	0

System Psychrometrics for 52 RDC 113 à 117 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	500	400	-9204	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	500	400	-39349	0
Vent - Return Mixing	Outlet	66.2	0.00026	2240	400	-	-
Central Cooling Coil	Outlet	66.2	0.00026	2240	400	0	0
Central Heating Coil	Outlet	86.1	0.00026	2240	400	48237	-
Supply Fan	Outlet	86.1	0.00026	2240	400	0	-
Cold Supply Duct	Outlet	86.1	0.00026	2240	400	-	-
Zone Air	-	70.0	0.00026	2240	400	-39007	0
Return Air	Outlet	70.0	0.00026	2240	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 113 à 117	-39007	Heating	-39007	70.0	2240	400	0	0

Air System Sizing Summary for 53 RDC 118 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **53 RDC 118 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **573.0** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.5** Tons
Total coil load **5.5** MBH
Sensible coil load **4.2** MBH
Coil CFM at peak load **298** CFM
Sum of peak zone CFM **298** CFM
Sensible heat ratio **0.754**
CFM/Ton **646.3**
sqft/Ton **1242.8**
BTU/(hr sqft) **9.7**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 8:00**
OA DB / WB **70.0 / 66.9** F
Entering DB / WB **73.4 / 66.0** F
Leaving DB / WB **60.7 / 60.2** F
Resulting RH **60** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **7.4** MBH
Coil CFM at Design Heating **298** CFM
Max coil CFM **298** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **12.9**
Ent. DB / Lvg DB **64.3 / 87.3** F

Supply Fan Sizing Data

Design CFM **298** CFM
Design CFM/sqft **0.52** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.17** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 53 RDC 118 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **53 RDC 118 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **573.0** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC 118	298	298	0.52	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC 118	5.5	June 8:00	5.5	573.0

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC 118						
RDC 118	5.5	June 8:00	298	5.5	573.0	0.52

Air System Heat Balance Summary for 53 RDC 118 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	4677	135	-	5552	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	298 CFM	0	-	298 CFM	0	-
Ventilation Load	100 CFM	-496	1087	100 CFM	1841	0
Supply Fan Load	298 CFM	0	-	298 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	4181	1222	-	7393	0
Central Cooling Coil	-	4174	1360	-	0	0
Central Heating Coil	-	0	-	-	7398	-
>> Total Conditioning	-	4174	1360	-	7398	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	129 sqft	177	-	129 sqft	283	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	0 sqft	0	-	0 sqft	0	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	247	-	47 sqft	469	-
Floor Convection	573 sqft	1079	-	573 sqft	1255	-
Interior Wall Convection	901 sqft	1609	-	901 sqft	305	-
Ceiling Convection	573 sqft	1451	-	573 sqft	432	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	18 CFM	2052	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	684	0	15%	720	0
>> Total Zone Loads	-	5247	0	-	5516	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 53 RDC 118 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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DESIGN COOLING DAY AT JULY 8:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	70.4	0.01350	100	400	-496	1087
Air-to-Air Energy Recovery	Outlet	70.4	0.01350	100	400	0	0
Vent - Return Mixing	Outlet	73.4	0.01197	298	400	-	-
Central Cooling Coil	Outlet	60.7	0.01104	298	400	4174	1360
Central Heating Coil	Outlet	60.7	0.01104	298	400	0	-
Supply Fan	Outlet	60.7	0.01104	298	400	0	-
Cold Supply Duct	Outlet	60.7	0.01104	298	400	-	-
Zone Air	-	75.0	0.01113	298	400	4677	135
Return Air	Outlet	75.0	0.01120	298	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 118	4675	Cooling	4677	75.0	298	400	0	0

System Psychrometrics for 53 RDC 118 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-1841	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	100	400	-7870	0
Vent - Return Mixing	Outlet	64.3	0.00026	298	400	-	-
Central Cooling Coil	Outlet	64.3	0.00026	298	400	0	0
Central Heating Coil	Outlet	87.3	0.00026	298	400	7398	-
Supply Fan	Outlet	87.3	0.00026	298	400	0	-
Cold Supply Duct	Outlet	87.3	0.00026	298	400	-	-
Zone Air	-	70.0	0.00026	298	400	-5552	0
Return Air	Outlet	70.0	0.00026	298	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 118	-5552	Heating	-5552	70.0	298	400	0	0

Air System Sizing Summary for 54 RDC 119 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **54 RDC 119 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **852.3** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.0** Tons
Total coil load **11.5** MBH
Sensible coil load **9.0** MBH
Coil CFM at peak load **634** CFM
Sum of peak zone CFM **634** CFM
Sensible heat ratio **0.785**
CFM/Ton **664.7**
sqft/Ton **893.1**
BTU/(hr sqft) **13.4**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 7:00**
OA DB / WB **68.8 / 66.5** F
Entering DB / WB **74.0 / 66.2** F
Leaving DB / WB **61.2 / 60.7** F
Resulting RH **62** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **18.7** MBH
Coil CFM at Design Heating **634** CFM
Max coil CFM **634** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **21.9**
Ent. DB / Lvg DB **67.3 / 94.6** F

Supply Fan Sizing Data

Design CFM **634** CFM
Design CFM/sqft **0.74** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.12** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 54 RDC 119 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **54 RDC 119 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **852.3** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC 119	634	634	0.74	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC 119	11.6	June 8:00	16.9	852.3

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC 119						
RDC 119	11.6	June 8:00	634	16.9	852.3	0.74

Air System Heat Balance Summary for 54 RDC 119 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	9660	857	-	16856	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	634 CFM	0	-	634 CFM	0	-
Ventilation Load	100 CFM	-653	829	100 CFM	1841	0
Supply Fan Load	634 CFM	0	-	634 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	9006	1686	-	18697	0
Central Cooling Coil	-	8993	2458	-	0	0
Central Heating Coil	-	0	-	-	18702	-
>> Total Conditioning	-	8993	2458	-	18702	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	520 sqft	882	-	520 sqft	1436	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	372	-	66 sqft	698	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	267	-	47 sqft	500	-
Floor Convection	852 sqft	3394	-	852 sqft	3245	-
Interior Wall Convection	634 sqft	1246	-	634 sqft	385	-
Ceiling Convection	852 sqft	2935	-	852 sqft	1045	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	63 CFM	7390	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	1364	0	15%	2205	0
>> Total Zone Loads	-	10460	0	-	16905	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 54 RDC 119 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT JULY 7:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	68.9	0.01349	100	400	-653	829
Air-to-Air Energy Recovery	Outlet	68.9	0.01349	100	400	0	0
Vent - Return Mixing	Outlet	74.0	0.01201	634	400	-	-
Central Cooling Coil	Outlet	61.2	0.01122	634	400	8993	2458
Central Heating Coil	Outlet	61.2	0.01122	634	400	0	-
Supply Fan	Outlet	61.2	0.01122	634	400	0	-
Cold Supply Duct	Outlet	61.2	0.01122	634	400	-	-
Zone Air	-	75.0	0.01151	634	400	9660	857
Return Air	Outlet	75.0	0.01174	634	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 119	9654	Cooling	9660	75.0	634	400	0	0

System Psychrometrics for 54 RDC 119 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-1841	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	100	400	-7870	0
Vent - Return Mixing	Outlet	67.3	0.00026	634	400	-	-
Central Cooling Coil	Outlet	67.3	0.00026	634	400	0	0
Central Heating Coil	Outlet	94.6	0.00026	634	400	18702	-
Supply Fan	Outlet	94.6	0.00026	634	400	0	-
Cold Supply Duct	Outlet	94.6	0.00026	634	400	-	-
Zone Air	-	70.0	0.00026	634	400	-16856	0
Return Air	Outlet	70.0	0.00026	634	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 119	-16856	Heating	-16856	70.0	634	400	0	0

Air System Sizing Summary for 55 RDC 120 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **55 RDC 120 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **593.9** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.7** Tons
Total coil load **8.4** MBH
Sensible coil load **6.9** MBH
Coil CFM at peak load **429** CFM
Sum of peak zone CFM **429** CFM
Sensible heat ratio **0.825**
CFM/Ton **613.3**
sqft/Ton **848.1**
BTU/(hr sqft) **14.1**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 10:00**
OA DB / WB **76.4 / 68.9** F
Entering DB / WB **75.1 / 66.0** F
Leaving DB / WB **60.4 / 59.9** F
Resulting RH **59** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **7.8** MBH
Coil CFM at Design Heating **429** CFM
Max coil CFM **429** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **13.1**
Ent. DB / Lvg DB **66.0 / 82.8** F

Supply Fan Sizing Data

Design CFM **429** CFM
Design CFM/sqft **0.72** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.17** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 55 RDC 120 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **55 RDC 120 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **593.9** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC 120	429	429	0.72	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC 120	7.9	September 10:00	5.8	593.9

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC 120						
RDC 120	7.9	September 10:00	429	5.8	593.9	0.72

Air System Heat Balance Summary for 55 RDC 120 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 10:00			DESIGN HEATING		
	OA DB / WB 76.4 F / 68.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	6893	148	-	5916	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	429 CFM	0	-	429 CFM	0	-
Ventilation Load	100 CFM	32	1151	100 CFM	1841	0
Supply Fan Load	429 CFM	0	-	429 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	6926	1299	-	7757	0
Central Cooling Coil	-	6934	1469	-	0	0
Central Heating Coil	-	0	-	-	7762	-
>> Total Conditioning	-	6934	1469	-	7762	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 10:00			DESIGN HEATING		
	OA DB / WB 76.4 F / 68.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	143 sqft	341	-	143 sqft	316	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	0 sqft	0	-	0 sqft	0	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	394	-	47 sqft	468	-
Floor Convection	594 sqft	1593	-	594 sqft	1330	-
Interior Wall Convection	895 sqft	1968	-	895 sqft	293	-
Ceiling Convection	594 sqft	2106	-	594 sqft	449	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	19 CFM	2222	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	960	0	15%	762	0
>> Total Zone Loads	-	7362	0	-	5839	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 55 RDC 120 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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DESIGN COOLING DAY AT AUGUST 10:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	76.6	0.01351	100	400	32	1151
Air-to-Air Energy Recovery	Outlet	75.3	0.01351	100	400	142	0
Vent - Return Mixing	Outlet	75.1	0.01164	429	400	-	-
Central Cooling Coil	Outlet	60.4	0.01094	429	400	6934	1469
Central Heating Coil	Outlet	60.4	0.01094	429	400	0	-
Supply Fan	Outlet	60.4	0.01094	429	400	0	-
Cold Supply Duct	Outlet	60.4	0.01094	429	400	-	-
Zone Air	-	75.0	0.01102	429	400	6893	148
Return Air	Outlet	75.0	0.01108	429	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 120	6892	Cooling	6893	75.0	429	400	0	0

System Psychrometrics for 55 RDC 120 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-1841	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	100	400	-7870	0
Vent - Return Mixing	Outlet	66.0	0.00026	429	400	-	-
Central Cooling Coil	Outlet	66.0	0.00026	429	400	0	0
Central Heating Coil	Outlet	82.8	0.00026	429	400	7762	-
Supply Fan	Outlet	82.8	0.00026	429	400	0	-
Cold Supply Duct	Outlet	82.8	0.00026	429	400	-	-
Zone Air	-	70.0	0.00026	429	400	-5916	0
Return Air	Outlet	70.0	0.00026	429	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 120	-5916	Heating	-5916	70.0	429	400	0	0

Air System Sizing Summary for 56 RDC 121 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

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Air System Information

Air System Name **56 RDC 121 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **991.0** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.2** Tons
Total coil load **14.1** MBH
Sensible coil load **12.8** MBH
Coil CFM at peak load **748** CFM
Sum of peak zone CFM **748** CFM
Sensible heat ratio **0.908**
CFM/Ton **637.6**
sqft/Ton **844.9**
BTU/(hr sqft) **14.2**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **September 11:00**
OA DB / WB **73.4 / 66.7** F
Entering DB / WB **74.8 / 64.8** F
Leaving DB / WB **59.3 / 58.7** F
Resulting RH **57** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **20.7** MBH
Coil CFM at Design Heating **748** CFM
Max coil CFM **748** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **20.9**
Ent. DB / Lvg DB **67.7 / 93.4** F

Supply Fan Sizing Data

Design CFM **748** CFM
Design CFM/sqft **0.75** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.10** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 56 RDC 121 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **56 RDC 121 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **991.0** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC 121	748	748	0.75	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC 121	13.7	September 11:00	18.9	991.0

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC 121						
RDC 121	13.7	September 11:00	748	18.9	991.0	0.75

Air System Heat Balance Summary for 56 RDC 121 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - SEPTEMBER 11:00			DESIGN HEATING		
	OA DB / WB 73.4 F / 66.7 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	12933	168	-	18904	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	748 CFM	0	-	748 CFM	0	-
Ventilation Load	100 CFM	-154	943	100 CFM	1841	0
Supply Fan Load	748 CFM	0	-	748 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	12778	1110	-	20745	0
Central Cooling Coil	-	12781	1295	-	0	0
Central Heating Coil	-	0	-	-	20750	-
>> Total Conditioning	-	12781	1295	-	20750	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - SEPTEMBER 11:00			DESIGN HEATING		
	OA DB / WB 73.4 F / 66.7 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	608 sqft	1340	-	608 sqft	1656	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	444	-	66 sqft	687	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	411	-	47 sqft	497	-
Floor Convection	991 sqft	4920	-	991 sqft	3698	-
Interior Wall Convection	606 sqft	1308	-	606 sqft	354	-
Ceiling Convection	991 sqft	3479	-	991 sqft	1172	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	72 CFM	8414	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	1785	0	15%	2472	0
>> Total Zone Loads	-	13687	0	-	18950	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 56 RDC 121 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT SEPTEMBER 11:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	73.6	0.01254	100	400	-154	943
Air-to-Air Energy Recovery	Outlet	73.6	0.01254	100	400	0	0
Vent - Return Mixing	Outlet	74.8	0.01082	748	400	-	-
Central Cooling Coil	Outlet	59.3	0.01046	748	400	12781	1295
Central Heating Coil	Outlet	59.3	0.01046	748	400	0	-
Supply Fan	Outlet	59.3	0.01046	748	400	0	-
Cold Supply Duct	Outlet	59.3	0.01046	748	400	-	-
Zone Air	-	75.0	0.01051	748	400	12933	168
Return Air	Outlet	75.0	0.01055	748	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 121	12931	Cooling	12933	75.0	748	400	0	0

System Psychrometrics for 56 RDC 121 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-1841	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	100	400	-7870	0
Vent - Return Mixing	Outlet	67.7	0.00026	748	400	-	-
Central Cooling Coil	Outlet	67.7	0.00026	748	400	0	0
Central Heating Coil	Outlet	93.4	0.00026	748	400	20750	-
Supply Fan	Outlet	93.4	0.00026	748	400	0	-
Cold Supply Duct	Outlet	93.4	0.00026	748	400	-	-
Zone Air	-	70.0	0.00026	748	400	-18904	0
Return Air	Outlet	70.0	0.00026	748	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 121	-18904	Heating	-18904	70.0	748	400	0	0

Air System Sizing Summary for 57 RDC 122 à 126 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **57 RDC 122 à 126 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **3286.8** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **5.6** Tons
Total coil load **67.2** MBH
Sensible coil load **60.8** MBH
Coil CFM at peak load **3452** CFM
Sum of peak zone CFM **3452** CFM
Sensible heat ratio **0.904**
CFM/Ton **616.0**
sqft/Ton **586.6**
BTU/(hr sqft) **20.5**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **September 15:00**
OA DB / WB **80.1 / 68.8** F
Entering DB / WB **75.1 / 64.9** F
Leaving DB / WB **59.1 / 58.7** F
Resulting RH **57** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **48.3** MBH
Coil CFM at Design Heating **3452** CFM
Max coil CFM **3452** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **14.7**
Ent. DB / Lvg DB **67.5 / 80.5** F

Supply Fan Sizing Data

Design CFM **3452** CFM
Design CFM/sqft **1.05** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **500** CFM
CFM/sqft **0.15** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 57 RDC 122 à 126 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **57 RDC 122 à 126 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **3286.8** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC 122 à 126	3452	3452	1.05	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC 122 à 126	63.2	September 15:00	38.6	3286.8

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC 122 à 126						
RDC 122 à 126	63.2	September 15:00	3452	38.6	3286.8	1.05

Air System Heat Balance Summary for 57 RDC 122 à 126 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

	DESIGN COOLING - SEPTEMBER 15:00			DESIGN HEATING		
	OA DB / WB 80.1 F / 68.8 F			OA DB / WB -20.0 F / -20.0 F		
COMPONENT LOADS	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	60230	655	-	39113	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	3452 CFM	0	-	3452 CFM	0	-
Ventilation Load	500 CFM	514	4757	500 CFM	9204	0
Supply Fan Load	3452 CFM	0	-	3452 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	60744	5412	-	48317	0
Central Cooling Coil	-	60797	6442	-	0	0
Central Heating Coil	-	0	-	-	48343	-
>> Total Conditioning	-	60797	6442	-	48343	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

	DESIGN COOLING - SEPTEMBER 15:00			DESIGN HEATING		
	OA DB / WB 80.1 F / 68.8 F			OA DB / WB -20.0 F / -20.0 F		
Zone Heat Balance Component	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	821 sqft	3030	-	821 sqft	1987	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	165 sqft	1880	-	165 sqft	1617	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	237 sqft	2703	-	237 sqft	2319	-
Floor Convection	3287 sqft	24609	-	3287 sqft	8975	-
Interior Wall Convection	1779 sqft	5606	-	1779 sqft	881	-
Ceiling Convection	3287 sqft	17104	-	3287 sqft	3505	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	122 CFM	14264	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	8240	0	15%	5032	0
>> Total Zone Loads	-	63171	0	-	38580	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 57 RDC 122 à 126 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:09 PM

DESIGN COOLING DAY AT SEPTEMBER 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	80.0	0.01255	500	400	514	4757
Air-to-Air Energy Recovery	Outlet	76.0	0.01255	500	400	2239	0
Vent - Return Mixing	Outlet	75.1	0.01083	3452	400	-	-
Central Cooling Coil	Outlet	59.1	0.01045	3452	400	60797	6442
Central Heating Coil	Outlet	59.1	0.01045	3452	400	0	-
Supply Fan	Outlet	59.1	0.01045	3452	400	0	-
Cold Supply Duct	Outlet	59.1	0.01045	3452	400	-	-
Zone Air	-	75.0	0.01049	3452	400	60230	655
Return Air	Outlet	75.0	0.01054	3452	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 122 à 126	60223	Cooling	60230	75.0	3452	400	0	0

System Psychrometrics for 57 RDC 122 à 126 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	500	400	-9204	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	500	400	-39349	0
Vent - Return Mixing	Outlet	67.5	0.00026	3452	400	-	-
Central Cooling Coil	Outlet	67.5	0.00026	3452	400	0	0
Central Heating Coil	Outlet	80.5	0.00026	3452	400	48343	-
Supply Fan	Outlet	80.5	0.00026	3452	400	0	-
Cold Supply Duct	Outlet	80.5	0.00026	3452	400	-	-
Zone Air	-	70.0	0.00026	3452	400	-39113	0
Return Air	Outlet	70.0	0.00026	3452	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 122 à 126	-39113	Heating	-39113	70.0	3452	400	0	0

Air System Sizing Summary for 58 RDC 127 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **58 RDC 127 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **844.7** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.6** Tons
Total coil load **19.3** MBH
Sensible coil load **17.9** MBH
Coil CFM at peak load **1017** CFM
Sum of peak zone CFM **1017** CFM
Sensible heat ratio **0.929**
CFM/Ton **632.1**
sqft/Ton **524.9**
BTU/(hr sqft) **22.9**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **September 15:00**
OA DB / WB **80.1 / 68.8** F
Entering DB / WB **75.1 / 64.7** F
Leaving DB / WB **59.1 / 58.6** F
Resulting RH **56** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **13.0** MBH
Coil CFM at Design Heating **1017** CFM
Max coil CFM **1017** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **15.3**
Ent. DB / Lvg DB **68.3 / 80.1** F

Supply Fan Sizing Data

Design CFM **1017** CFM
Design CFM/sqft **1.20** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **100** CFM
CFM/sqft **0.12** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 58 RDC 127 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **58 RDC 127 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **844.7** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC 127	1017	1017	1.20	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC 127	18.6	September 15:00	11.0	844.7

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC 127						
RDC 127	18.6	September 15:00	1017	11.0	844.7	1.20

Air System Heat Balance Summary for 58 RDC 127 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - SEPTEMBER 15:00			DESIGN HEATING		
	OA DB / WB 80.1 F / 68.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	17822	141	-	11105	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	1017 CFM	0	-	1017 CFM	0	-
Ventilation Load	100 CFM	103	982	100 CFM	1841	0
Supply Fan Load	1017 CFM	0	-	1017 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	17925	1123	-	12946	0
Central Cooling Coil	-	17936	1376	-	0	0
Central Heating Coil	-	0	-	-	12951	-
>> Total Conditioning	-	17936	1376	-	12951	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - SEPTEMBER 15:00			DESIGN HEATING		
	OA DB / WB 80.1 F / 68.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	238 sqft	986	-	238 sqft	581	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	776	-	66 sqft	646	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	552	-	47 sqft	459	-
Floor Convection	845 sqft	5927	-	845 sqft	2408	-
Interior Wall Convection	907 sqft	3316	-	907 sqft	459	-
Ceiling Convection	845 sqft	4630	-	845 sqft	889	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	35 CFM	4098	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	2428	0	15%	1431	0
>> Total Zone Loads	-	18617	0	-	10971	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 58 RDC 127 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT SEPTEMBER 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	80.0	0.01255	100	400	103	982
Air-to-Air Energy Recovery	Outlet	76.0	0.01255	100	400	448	0
Vent - Return Mixing	Outlet	75.1	0.01068	1017	400	-	-
Central Cooling Coil	Outlet	59.1	0.01040	1017	400	17936	1376
Central Heating Coil	Outlet	59.1	0.01040	1017	400	0	-
Supply Fan	Outlet	59.1	0.01040	1017	400	0	-
Cold Supply Duct	Outlet	59.1	0.01040	1017	400	-	-
Zone Air	-	75.0	0.01043	1017	400	17822	141
Return Air	Outlet	75.0	0.01047	1017	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 127	17821	Cooling	17822	75.0	1017	400	0	0

System Psychrometrics for 58 RDC 127 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	100	400	-1841	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	100	400	-7870	0
Vent - Return Mixing	Outlet	68.3	0.00026	1017	400	-	-
Central Cooling Coil	Outlet	68.3	0.00026	1017	400	0	0
Central Heating Coil	Outlet	80.1	0.00026	1017	400	12951	-
Supply Fan	Outlet	80.1	0.00026	1017	400	0	-
Cold Supply Duct	Outlet	80.1	0.00026	1017	400	-	-
Zone Air	-	70.0	0.00026	1017	400	-11105	0
Return Air	Outlet	70.0	0.00026	1017	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 127	-11105	Heating	-11105	70.0	1017	400	0	0

Air System Sizing Summary for 59 RDC 128 et 129 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **59 RDC 128 et 129 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **1153.7** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.5** Tons
Total coil load **17.6** MBH
Sensible coil load **15.4** MBH
Coil CFM at peak load **885** CFM
Sum of peak zone CFM **885** CFM
Sensible heat ratio **0.870**
CFM/Ton **601.9**
sqft/Ton **784.5**
BTU/(hr sqft) **15.3**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **September 15:00**
OA DB / WB **80.1 / 68.8** F
Entering DB / WB **75.2 / 65.3** F
Leaving DB / WB **59.5 / 59.0** F
Resulting RH **57** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **14.8** MBH
Coil CFM at Design Heating **885** CFM
Max coil CFM **885** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **12.8**
Ent. DB / Lvg DB **66.1 / 81.6** F

Supply Fan Sizing Data

Design CFM **885** CFM
Design CFM/sqft **0.77** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **200** CFM
CFM/sqft **0.17** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 59 RDC 128 et 129 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **59 RDC 128 et 129 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **1153.7** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC 128 et 129	885	885	0.77	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC 128 et 129	16.2	September 15:00	10.9	1153.7

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC 128 et 129						
RDC 128 et 129	16.2	September 15:00	885	10.9	1153.7	0.77

Air System Heat Balance Summary for 59 RDC 128 et 129 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - SEPTEMBER 15:00			DESIGN HEATING		
	OA DB / WB 80.1 F / 68.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	15129	240	-	11084	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	885 CFM	0	-	885 CFM	0	-
Ventilation Load	200 CFM	206	1759	200 CFM	3682	0
Supply Fan Load	885 CFM	0	-	885 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	15335	2000	-	14765	0
Central Cooling Coil	-	15355	2292	-	0	0
Central Heating Coil	-	0	-	-	14776	-
>> Total Conditioning	-	15355	2292	-	14776	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - SEPTEMBER 15:00			DESIGN HEATING		
	OA DB / WB 80.1 F / 68.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	258 sqft	866	-	258 sqft	571	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	0 sqft	0	-	0 sqft	0	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	95 sqft	920	-	95 sqft	918	-
Floor Convection	1154 sqft	3823	-	1154 sqft	2564	-
Interior Wall Convection	1256 sqft	3439	-	1256 sqft	435	-
Ceiling Convection	1154 sqft	5037	-	1154 sqft	910	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	35 CFM	4109	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	2113	0	15%	1426	0
>> Total Zone Loads	-	16198	0	-	10933	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 59 RDC 128 et 129 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT SEPTEMBER 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	80.0	0.01255	200	400	206	1759
Air-to-Air Energy Recovery	Outlet	76.0	0.01255	200	400	896	0
Vent - Return Mixing	Outlet	75.2	0.01111	885	400	-	-
Central Cooling Coil	Outlet	59.5	0.01058	885	400	15355	2292
Central Heating Coil	Outlet	59.5	0.01058	885	400	0	-
Supply Fan	Outlet	59.5	0.01058	885	400	0	-
Cold Supply Duct	Outlet	59.5	0.01058	885	400	-	-
Zone Air	-	75.0	0.01064	885	400	15129	240
Return Air	Outlet	75.0	0.01069	885	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 128 et 129	15127	Cooling	15130	75.0	885	400	0	0

System Psychrometrics for 59 RDC 128 et 129 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	200	400	-3682	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	200	400	-15740	0
Vent - Return Mixing	Outlet	66.1	0.00026	885	400	-	-
Central Cooling Coil	Outlet	66.1	0.00026	885	400	0	0
Central Heating Coil	Outlet	81.6	0.00026	885	400	14776	-
Supply Fan	Outlet	81.6	0.00026	885	400	0	-
Cold Supply Duct	Outlet	81.6	0.00026	885	400	-	-
Zone Air	-	70.0	0.00026	885	400	-11084	0
Return Air	Outlet	70.0	0.00026	885	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC 128 et 129	-11084	Heating	-11084	70.0	885	400	0	0

Air System Sizing Summary for 60 RDC Atelier CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **60 RDC Atelier CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **661.6** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Heating Coil Sizing Data

Max coil load **9.4** MBH
Coil CFM at Design Heating **352** CFM
Max coil CFM **352** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **14.2**
Ent. DB / Lvg DB **70.0 / 94.8** F

Supply Fan Sizing Data

Design CFM **352** CFM
Design CFM/sqft **0.53** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **0** CFM
CFM/sqft **0.00** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 60 RDC Atelier CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

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Air System Information

Air System Name **60 RDC Atelier CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **661.6** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC Atelier	352	352	0.53	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC Atelier	0.0	January 11:00	9.5	661.6

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC Atelier						
RDC Atelier	0.0	January 11:00	352	9.5	661.6	0.53

Air System Heat Balance Summary for 60 RDC Atelier CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	-	-	-	9420	0
Plenum Load	-	-	-	-	0	0
Return Fan Load	-	-	-	352 CFM	0	-
Ventilation Load	-	-	-	0 CFM	0	0
Supply Fan Load	-	-	-	352 CFM	0	-
Zone Fan Coil Fans Load	-	-	-	-	0	-
>> Total System Loads	-	-	-	-	9420	0
Central Heating Coil	-	-	-	-	9420	-
>> Total Conditioning	-	-	-	-	9420	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING			DESIGN HEATING		
	NO COOLING DATA			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	172 sqft	-	-	172 sqft	445	-
Roof Convection	0 sqft	-	-	0 sqft	0	-
Window Convection	0 sqft	-	-	0 sqft	0	-
Skylight Convection	0 sqft	-	-	0 sqft	0	-
Door Convection	77 sqft	-	-	77 sqft	1448	-
Floor Convection	662 sqft	-	-	662 sqft	2009	-
Interior Wall Convection	799 sqft	-	-	799 sqft	545	-
Ceiling Convection	662 sqft	-	-	662 sqft	881	-
Overhead Lighting Convection	-	-	-	0 W	0	-
Task Lighting Convection	-	-	-	0 W	0	-
Electric Equipment Convection	-	-	-	0 W	0	-
People Convection	-	-	-	0	0	0
Infiltration	-	-	-	25 CFM	2899	0
Miscellaneous Equipment	-	-	-	-	0	0
Air Internal Energy Change	-	-	-	-	0	0
Safety Factor	15% / 15%	-	-	15%	1234	0
>> Total Zone Loads	-	-	-	-	9462	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 60 RDC Atelier CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	0	400	0	0
Air-to-Air Energy Recovery	Outlet	-20.0	0.00026	0	400	0	0
Vent - Return Mixing	Outlet	70.0	0.00026	352	400	-	-
Central Heating Coil	Outlet	94.8	0.00026	352	400	9420	-
Supply Fan	Outlet	94.8	0.00026	352	400	0	-
Cold Supply Duct	Outlet	94.8	0.00026	352	400	-	-
Zone Air	-	70.0	0.00026	352	400	-9420	0
Return Air	Outlet	70.0	0.00026	352	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Atelier	-9420	Heating	-9420	70.0	352	400	0	0

Air System Sizing Summary for 61 RDC Billard CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **61 RDC Billard CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **863.0** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.2** Tons
Total coil load **14.4** MBH
Sensible coil load **14.4** MBH
Coil CFM at peak load **835** CFM
Sum of peak zone CFM **835** CFM
Sensible heat ratio **1.000**
CFM/Ton **693.5**
sqft/Ton **717.2**
BTU/(hr sqft) **16.7**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **June 8:00**
OA DB / WB **66.0 / 64.7** F
Entering DB / WB **75.0 / 64.1** F
Leaving DB / WB **59.3 / 58.4** F
Resulting RH **55** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **18.3** MBH
Coil CFM at Design Heating **835** CFM
Max coil CFM **835** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **21.2**
Ent. DB / Lvg DB **70.0 / 90.3** F

Supply Fan Sizing Data

Design CFM **835** CFM
Design CFM/sqft **0.97** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **0** CFM
CFM/sqft **0.00** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 61 RDC Billard CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **61 RDC Billard CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **863.0** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC Billard	835	835	0.97	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC Billard	15.3	June 8:00	18.2	863.0

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC Billard						
RDC Billard	15.3	June 8:00	835	18.2	863.0	0.97

Air System Heat Balance Summary for 61 RDC Billard CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JUNE 8:00			DESIGN HEATING		
	OA DB / WB 66.0 F / 64.7 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	14440	0	-	18296	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	835 CFM	0	-	835 CFM	0	-
Ventilation Load	0 CFM	0	0	0 CFM	0	0
Supply Fan Load	835 CFM	0	-	835 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	14440	0	-	18296	0
Central Cooling Coil	-	14440	0	-	0	0
Central Heating Coil	-	0	-	-	18296	-
>> Total Conditioning	-	14440	0	-	18296	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JUNE 8:00			DESIGN HEATING		
	OA DB / WB 66.0 F / 64.7 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	315 sqft	905	-	315 sqft	955	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	199 sqft	932	-	199 sqft	2226	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	326	-	47 sqft	526	-
Floor Convection	863 sqft	4964	-	863 sqft	3529	-
Interior Wall Convection	717 sqft	2128	-	717 sqft	646	-
Ceiling Convection	863 sqft	4026	-	863 sqft	1444	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	56 CFM	6543	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0		-	0	0
Safety Factor	15% / 15%	1992	0	15%	2380	0
>> Total Zone Loads	-	15272	0	-	18249	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 61 RDC Billard CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT JUNE 8:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	66.4	0.01283	0	400	0	0
Air-to-Air Energy Recovery	Outlet	66.4	0.01283	0	400	0	0
Vent - Return Mixing	Outlet	75.0	0.01028	835	400	-	-
Central Cooling Coil	Outlet	59.3	0.01028	835	400	14440	0
Central Heating Coil	Outlet	59.3	0.01028	835	400	0	-
Supply Fan	Outlet	59.3	0.01028	835	400	0	-
Cold Supply Duct	Outlet	59.3	0.01028	835	400	-	-
Zone Air	-	75.0	0.01028	835	400	14440	0
Return Air	Outlet	75.0	0.01028	835	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Billard	14440	Cooling	14440	75.0	835	400	0	0

System Psychrometrics for 61 RDC Billard CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	0	400	0	0
Air-to-Air Energy Recovery	Outlet	-20.0	0.00026	0	400	0	0
Vent - Return Mixing	Outlet	70.0	0.00026	835	400	-	-
Central Cooling Coil	Outlet	70.0	0.00026	835	400	0	0
Central Heating Coil	Outlet	90.3	0.00026	835	400	18296	-
Supply Fan	Outlet	90.3	0.00026	835	400	0	-
Cold Supply Duct	Outlet	90.3	0.00026	835	400	-	-
Zone Air	-	70.0	0.00026	835	400	-18296	0
Return Air	Outlet	70.0	0.00026	835	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Billard	-18296	Heating	-18296	70.0	835	400	0	0

Air System Sizing Summary for 62 RDC Bureau 157 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

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Air System Information

Air System Name **62 RDC Bureau 157 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **293.2** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.4** Tons
Total coil load **4.5** MBH
Sensible coil load **3.5** MBH
Coil CFM at peak load **293** CFM
Sum of peak zone CFM **293** CFM
Sensible heat ratio **0.780**
CFM/Ton **775.7**
sqft/Ton **776.2**
BTU/(hr sqft) **15.5**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 16:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **77.1 / 69.2** F
Leaving DB / WB **66.2 / 64.8** F
Resulting RH **69** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **9.4** MBH
Coil CFM at Design Heating **293** CFM
Max coil CFM **293** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **31.9**
Ent. DB / Lvg DB **52.9 / 82.5** F

Supply Fan Sizing Data

Design CFM **293** CFM
Design CFM/sqft **1.00** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **293** CFM
CFM/sqft **1.00** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 62 RDC Bureau 157 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **62 RDC Bureau 157 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **293.2** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC Bureau 157	293	293	1.00	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC Bureau 157	3.2	September 15:00	4.0	293.2

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC Bureau 157						
RDC Bureau 157	3.2	September 15:00	293	4.0	293.2	1.00

Air System Heat Balance Summary for 62 RDC Bureau 157 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 16:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	2856	1	-	3958	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	293 CFM	0	-	293 CFM	0	-
Ventilation Load	293 CFM	655	958	293 CFM	5394	0
Supply Fan Load	293 CFM	0	-	293 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	3510	958	-	9352	0
Central Cooling Coil	-	3535	998	-	0	0
Central Heating Coil	-	0	-	-	9367	-
>> Total Conditioning	-	3535	998	-	9367	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 16:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	133 sqft	316	-	133 sqft	306	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	16 sqft	133	-	16 sqft	157	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	0 sqft	0	-	0 sqft	0	-
Floor Convection	293 sqft	554	-	293 sqft	816	-
Interior Wall Convection	608 sqft	941	-	608 sqft	194	-
Ceiling Convection	293 sqft	727	-	293 sqft	222	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	15 CFM	1741	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	401	0	15%	515	0
>> Total Zone Loads	-	3072	0	-	3950	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 62 RDC Bureau 157 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT AUGUST 16:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	85.9	0.01352	293	400	655	958
Air-to-Air Energy Recovery	Outlet	77.1	0.01352	293	400	2864	0
Vent - Return Mixing	Outlet	77.1	0.01352	293	400	-	-
Central Cooling Coil	Outlet	66.2	0.01283	293	400	3535	998
Central Heating Coil	Outlet	66.2	0.01283	293	400	0	-
Supply Fan	Outlet	66.2	0.01283	293	400	0	-
Cold Supply Duct	Outlet	66.2	0.01283	293	400	-	-
Zone Air	-	75.0	0.01283	293	400	2856	1
Return Air	Outlet	75.0	0.01283	293	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Bureau 157	2855	Cooling	2856	75.0	293	400	0	0

System Psychrometrics for 62 RDC Bureau 157 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	293	400	-5394	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	293	400	-23059	0
Vent - Return Mixing	Outlet	52.9	0.00026	293	400	-	-
Central Cooling Coil	Outlet	52.9	0.00026	293	400	0	0
Central Heating Coil	Outlet	82.5	0.00026	293	400	9367	-
Supply Fan	Outlet	82.5	0.00026	293	400	0	-
Cold Supply Duct	Outlet	82.5	0.00026	293	400	-	-
Zone Air	-	70.0	0.00026	293	400	-3958	0
Return Air	Outlet	70.0	0.00026	293	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Bureau 157	-3958	Heating	-3958	70.0	293	400	0	0

Air System Sizing Summary for 63 RDC Bureau 158 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **63 RDC Bureau 158 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **166.4** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.4** Tons
Total coil load **4.8** MBH
Sensible coil load **2.9** MBH
Coil CFM at peak load **166** CFM
Sum of peak zone CFM **166** CFM
Sensible heat ratio **0.615**
CFM/Ton **415.0**
sqft/Ton **415.9**
BTU/(hr sqft) **28.9**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 16:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **77.1 / 69.2** F
Leaving DB / WB **61.0 / 60.6** F
Resulting RH **61** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **6.4** MBH
Coil CFM at Design Heating **166** CFM
Max coil CFM **166** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **38.2**
Ent. DB / Lvg DB **52.9 / 88.4** F

Supply Fan Sizing Data

Design CFM **166** CFM
Design CFM/sqft **1.00** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **166** CFM
CFM/sqft **1.00** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 63 RDC Bureau 158 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **63 RDC Bureau 158 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **166.4** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC Bureau 158	166	166	1.00	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC Bureau 158	2.9	September 15:00	3.3	166.4

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC Bureau 158						
RDC Bureau 158	2.9	September 15:00	166	3.3	166.4	1.00

Air System Heat Balance Summary for 63 RDC Bureau 158 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 16:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	2552	14	-	3291	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	166 CFM	0	-	166 CFM	0	-
Ventilation Load	166 CFM	371	1757	166 CFM	3056	0
Supply Fan Load	166 CFM	0	-	166 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	2922	1771	-	6347	0
Central Cooling Coil	-	2950	1850	-	0	0
Central Heating Coil	-	0	-	-	6356	-
>> Total Conditioning	-	2950	1850	-	6356	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 16:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	113 sqft	298	-	113 sqft	285	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	16 sqft	155	-	16 sqft	167	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	0 sqft	0	-	0 sqft	0	-
Floor Convection	166 sqft	738	-	166 sqft	587	-
Interior Wall Convection	403 sqft	707	-	403 sqft	166	-
Ceiling Convection	166 sqft	471	-	166 sqft	152	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	13 CFM	1510	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	355	0	15%	430	0
>> Total Zone Loads	-	2724	0	-	3296	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 63 RDC Bureau 158 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT AUGUST 16:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	85.9	0.01352	166	400	371	1757
Air-to-Air Energy Recovery	Outlet	77.1	0.01352	166	400	1618	0
Vent - Return Mixing	Outlet	77.1	0.01352	166	400	-	-
Central Cooling Coil	Outlet	61.0	0.01125	166	400	2950	1850
Central Heating Coil	Outlet	61.0	0.01125	166	400	0	-
Supply Fan	Outlet	61.0	0.01125	166	400	0	-
Cold Supply Duct	Outlet	61.0	0.01125	166	400	-	-
Zone Air	-	75.0	0.01126	166	400	2552	14
Return Air	Outlet	75.0	0.01129	166	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Bureau 158	2551	Cooling	2552	75.0	166	400	0	0

System Psychrometrics for 63 RDC Bureau 158 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	166	400	-3056	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	166	400	-13064	0
Vent - Return Mixing	Outlet	52.9	0.00026	166	400	-	-
Central Cooling Coil	Outlet	52.9	0.00026	166	400	0	0
Central Heating Coil	Outlet	88.4	0.00026	166	400	6356	-
Supply Fan	Outlet	88.4	0.00026	166	400	0	-
Cold Supply Duct	Outlet	88.4	0.00026	166	400	-	-
Zone Air	-	70.0	0.00026	166	400	-3291	0
Return Air	Outlet	70.0	0.00026	166	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Bureau 158	-3291	Heating	-3291	70.0	166	400	0	0

Air System Sizing Summary for 64 RDC Bureau 159 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **64 RDC Bureau 159 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **132.9** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.4** Tons
Total coil load **4.5** MBH
Sensible coil load **2.8** MBH
Coil CFM at peak load **154** CFM
Sum of peak zone CFM **154** CFM
Sensible heat ratio **0.628**
CFM/Ton **412.8**
sqft/Ton **356.0**
BTU/(hr sqft) **33.7**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 16:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **76.8 / 68.7** F
Leaving DB / WB **60.3 / 59.9** F
Resulting RH **59** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **5.1** MBH
Coil CFM at Design Heating **154** CFM
Max coil CFM **154** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **38.4**
Ent. DB / Lvg DB **55.2 / 85.9** F

Supply Fan Sizing Data

Design CFM **154** CFM
Design CFM/sqft **1.16** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **133** CFM
CFM/sqft **1.00** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 64 RDC Bureau 159 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **64 RDC Bureau 159 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **132.9** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC Bureau 159	154	154	1.16	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC Bureau 159	2.8	September 15:00	2.6	132.9

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC Bureau 159						
RDC Bureau 159	2.8	September 15:00	154	2.6	132.9	1.16

Air System Heat Balance Summary for 64 RDC Bureau 159 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 16:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	2494	1	-	2648	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	154 CFM	0	-	154 CFM	0	-
Ventilation Load	133 CFM	297	1604	133 CFM	2448	0
Supply Fan Load	154 CFM	0	-	154 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	2792	1605	-	5097	0
Central Cooling Coil	-	2816	1665	-	0	0
Central Heating Coil	-	0	-	-	5104	-
>> Total Conditioning	-	2816	1665	-	5104	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 16:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	84 sqft	243	-	84 sqft	213	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	16 sqft	165	-	16 sqft	167	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	0 sqft	0	-	0 sqft	0	-
Floor Convection	133 sqft	703	-	133 sqft	465	-
Interior Wall Convection	374 sqft	768	-	374 sqft	160	-
Ceiling Convection	133 sqft	409	-	133 sqft	123	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	10 CFM	1172	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	343	0	15%	345	0
>> Total Zone Loads	-	2631	0	-	2644	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 64 RDC Bureau 159 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT AUGUST 16:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	85.9	0.01352	133	400	297	1604
Air-to-Air Energy Recovery	Outlet	77.1	0.01352	133	400	1296	0
Vent - Return Mixing	Outlet	76.8	0.01318	154	400	-	-
Central Cooling Coil	Outlet	60.3	0.01097	154	400	2816	1665
Central Heating Coil	Outlet	60.3	0.01097	154	400	0	-
Supply Fan	Outlet	60.3	0.01097	154	400	0	-
Cold Supply Duct	Outlet	60.3	0.01097	154	400	-	-
Zone Air	-	75.0	0.01097	154	400	2494	1
Return Air	Outlet	75.0	0.01098	154	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Bureau 159	2494	Cooling	2494	75.0	154	400	0	0

System Psychrometrics for 64 RDC Bureau 159 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	133	400	-2448	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	133	400	-10467	0
Vent - Return Mixing	Outlet	55.2	0.00026	154	400	-	-
Central Cooling Coil	Outlet	55.2	0.00026	154	400	0	0
Central Heating Coil	Outlet	85.9	0.00026	154	400	5104	-
Supply Fan	Outlet	85.9	0.00026	154	400	0	-
Cold Supply Duct	Outlet	85.9	0.00026	154	400	-	-
Zone Air	-	70.0	0.00026	154	400	-2648	0
Return Air	Outlet	70.0	0.00026	154	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Bureau 159	-2648	Heating	-2648	70.0	154	400	0	0

Air System Sizing Summary for 65 RDC Bureau 160 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **65 RDC Bureau 160 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **131.3** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.4** Tons
Total coil load **4.5** MBH
Sensible coil load **2.8** MBH
Coil CFM at peak load **154** CFM
Sum of peak zone CFM **154** CFM
Sensible heat ratio **0.630**
CFM/Ton **412.9**
sqft/Ton **352.2**
BTU/(hr sqft) **34.1**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 16:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **76.8 / 68.6** F
Leaving DB / WB **60.2 / 59.9** F
Resulting RH **59** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **5.0** MBH
Coil CFM at Design Heating **154** CFM
Max coil CFM **154** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **38.4**
Ent. DB / Lvg DB **55.4 / 85.8** F

Supply Fan Sizing Data

Design CFM **154** CFM
Design CFM/sqft **1.17** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **131** CFM
CFM/sqft **1.00** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 65 RDC Bureau 160 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

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Air System Information

Air System Name **65 RDC Bureau 160 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **131.3** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC Bureau 160	154	154	1.17	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC Bureau 160	2.8	September 15:00	2.6	131.3

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC Bureau 160						
RDC Bureau 160	2.8	September 15:00	154	2.6	131.3	1.17

Air System Heat Balance Summary for 65 RDC Bureau 160 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 16:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	2501	-1	-	2627	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	154 CFM	0	-	154 CFM	0	-
Ventilation Load	131 CFM	293	1597	131 CFM	2411	0
Supply Fan Load	154 CFM	0	-	154 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	2794	1596	-	5038	0
Central Cooling Coil	-	2818	1654	-	0	0
Central Heating Coil	-	0	-	-	5045	-
>> Total Conditioning	-	2818	1654	-	5045	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 16:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	83 sqft	241	-	83 sqft	210	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	16 sqft	167	-	16 sqft	168	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	0 sqft	0	-	0 sqft	0	-
Floor Convection	131 sqft	734	-	131 sqft	459	-
Interior Wall Convection	372 sqft	752	-	372 sqft	160	-
Ceiling Convection	131 sqft	405	-	131 sqft	122	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	10 CFM	1161	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	345	0	15%	342	0
>> Total Zone Loads	-	2642	0	-	2623	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 65 RDC Bureau 160 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT AUGUST 16:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	85.9	0.01352	131	400	293	1597
Air-to-Air Energy Recovery	Outlet	77.1	0.01352	131	400	1276	0
Vent - Return Mixing	Outlet	76.8	0.01314	154	400	-	-
Central Cooling Coil	Outlet	60.2	0.01094	154	400	2818	1654
Central Heating Coil	Outlet	60.2	0.01094	154	400	0	-
Supply Fan	Outlet	60.2	0.01094	154	400	0	-
Cold Supply Duct	Outlet	60.2	0.01094	154	400	-	-
Zone Air	-	75.0	0.01094	154	400	2501	-1
Return Air	Outlet	75.0	0.01095	154	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Bureau 160	2501	Cooling	2501	75.0	154	400	0	0

System Psychrometrics for 65 RDC Bureau 160 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	131	400	-2411	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	131	400	-10309	0
Vent - Return Mixing	Outlet	55.4	0.00026	154	400	-	-
Central Cooling Coil	Outlet	55.4	0.00026	154	400	0	0
Central Heating Coil	Outlet	85.8	0.00026	154	400	5045	-
Supply Fan	Outlet	85.8	0.00026	154	400	0	-
Cold Supply Duct	Outlet	85.8	0.00026	154	400	-	-
Zone Air	-	70.0	0.00026	154	400	-2627	0
Return Air	Outlet	70.0	0.00026	154	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Bureau 160	-2627	Heating	-2627	70.0	154	400	0	0

Air System Sizing Summary for 66 RDC Bureau 161 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **66 RDC Bureau 161 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **129.6** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.4** Tons
Total coil load **4.4** MBH
Sensible coil load **2.8** MBH
Coil CFM at peak load **154** CFM
Sum of peak zone CFM **154** CFM
Sensible heat ratio **0.634**
CFM/Ton **418.6**
sqft/Ton **353.2**
BTU/(hr sqft) **34.0**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 16:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **76.8 / 68.6** F
Leaving DB / WB **60.4 / 60.0** F
Resulting RH **59** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **5.0** MBH
Coil CFM at Design Heating **154** CFM
Max coil CFM **154** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **38.5**
Ent. DB / Lvg DB **55.5 / 85.6** F

Supply Fan Sizing Data

Design CFM **154** CFM
Design CFM/sqft **1.19** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **130** CFM
CFM/sqft **1.00** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 66 RDC Bureau 161 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **66 RDC Bureau 161 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **129.6** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC Bureau 161	154	154	1.19	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC Bureau 161	2.8	September 15:00	2.6	129.6

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC Bureau 161						
RDC Bureau 161	2.8	September 15:00	154	2.6	129.6	1.19

Air System Heat Balance Summary for 66 RDC Bureau 161 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 16:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	2477	-3	-	2593	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	154 CFM	0	-	154 CFM	0	-
Ventilation Load	130 CFM	290	1562	130 CFM	2393	0
Supply Fan Load	154 CFM	0	-	154 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	2767	1559	-	4986	0
Central Cooling Coil	-	2790	1614	-	0	0
Central Heating Coil	-	0	-	-	4993	-
>> Total Conditioning	-	2790	1614	-	4993	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 16:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	82 sqft	236	-	82 sqft	206	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	16 sqft	167	-	16 sqft	168	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	0 sqft	0	-	0 sqft	0	-
Floor Convection	130 sqft	728	-	130 sqft	454	-
Interior Wall Convection	371 sqft	750	-	371 sqft	160	-
Ceiling Convection	130 sqft	399	-	130 sqft	120	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	10 CFM	1144	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	342	0	15%	338	0
>> Total Zone Loads	-	2623	0	-	2589	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 66 RDC Bureau 161 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT AUGUST 16:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	85.9	0.01352	130	400	290	1562
Air-to-Air Energy Recovery	Outlet	77.1	0.01352	130	400	1266	0
Vent - Return Mixing	Outlet	76.8	0.01313	154	400	-	-
Central Cooling Coil	Outlet	60.4	0.01099	154	400	2790	1614
Central Heating Coil	Outlet	60.4	0.01099	154	400	0	-
Supply Fan	Outlet	60.4	0.01099	154	400	0	-
Cold Supply Duct	Outlet	60.4	0.01099	154	400	-	-
Zone Air	-	75.0	0.01098	154	400	2477	-3
Return Air	Outlet	75.0	0.01099	154	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Bureau 161	2476	Cooling	2477	75.0	154	400	0	0

System Psychrometrics for 66 RDC Bureau 161 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	130	400	-2393	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	130	400	-10231	0
Vent - Return Mixing	Outlet	55.5	0.00026	154	400	-	-
Central Cooling Coil	Outlet	55.5	0.00026	154	400	0	0
Central Heating Coil	Outlet	85.6	0.00026	154	400	4993	-
Supply Fan	Outlet	85.6	0.00026	154	400	0	-
Cold Supply Duct	Outlet	85.6	0.00026	154	400	-	-
Zone Air	-	70.0	0.00026	154	400	-2593	0
Return Air	Outlet	70.0	0.00026	154	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Bureau 161	-2593	Heating	-2593	70.0	154	400	0	0

Air System Sizing Summary for 67 RDC Poste1 163 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **67 RDC Poste1 163 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **238.7** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.0** Tons
Total coil load **0.4** MBH
Sensible coil load **0.4** MBH
Coil CFM at peak load **147** CFM
Sum of peak zone CFM **147** CFM
Sensible heat ratio **1.000**
CFM/Ton **4219.0**
sqft/Ton **6851.6**
BTU/(hr sqft) **1.8**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 16:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **77.1 / 69.2** F
Leaving DB / WB **74.5 / 68.4** F
Resulting RH **73** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **2.9** MBH
Coil CFM at Design Heating **147** CFM
Max coil CFM **147** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **12.0**
Ent. DB / Lvg DB **52.9 / 70.9** F

Supply Fan Sizing Data

Design CFM **147** CFM
Design CFM/sqft **0.62** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **147** CFM
CFM/sqft **0.62** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 67 RDC Poste1 163 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **67 RDC Poste1 163 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **238.7** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC Réception1	147	147	0.62	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC Réception1	0.2	July 19:00	0.1	238.7

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC Réception1						
RDC Réception1	0.2	July 19:00	147	0.1	238.7	0.62

Air System Heat Balance Summary for 67 RDC Poste1 163 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 16:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	81	0	-	148	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	147 CFM	0	-	147 CFM	0	-
Ventilation Load	147 CFM	328	0	147 CFM	2706	0
Supply Fan Load	147 CFM	0	-	147 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	409	0	-	2854	0
Central Cooling Coil	-	418	0	-	0	0
Central Heating Coil	-	0	-	-	2862	-
>> Total Conditioning	-	418	0	-	2862	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 16:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	0 sqft	0	-	0 sqft	0	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	0 sqft	0	-	0 sqft	0	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	0 sqft	0	-	0 sqft	0	-
Floor Convection	239 sqft	26	-	239 sqft	9	-
Interior Wall Convection	693 sqft	83	-	693 sqft	44	-
Ceiling Convection	239 sqft	34	-	239 sqft	38	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	0 CFM	0	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0		-	0	0
Safety Factor	15% / 15%	21	0	15%	14	0
>> Total Zone Loads	-	165	0	-	106	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 67 RDC Poste1 163 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT JULY 16:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	85.9	0.01352	147	400	328	0
Air-to-Air Energy Recovery	Outlet	77.1	0.01352	147	400	1438	0
Vent - Return Mixing	Outlet	77.1	0.01352	147	400	-	-
Central Cooling Coil	Outlet	74.5	0.01352	147	400	418	0
Central Heating Coil	Outlet	74.5	0.01352	147	400	0	-
Supply Fan	Outlet	74.5	0.01352	147	400	0	-
Cold Supply Duct	Outlet	74.5	0.01352	147	400	-	-
Zone Air	-	75.0	0.01352	147	400	81	0
Return Air	Outlet	75.0	0.01352	147	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Réception1	81	Cooling	81	75.0	147	400	0	0

System Psychrometrics for 67 RDC Poste1 163 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	147	400	-2706	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	147	400	-11569	0
Vent - Return Mixing	Outlet	52.9	0.00026	147	400	-	-
Central Cooling Coil	Outlet	52.9	0.00026	147	400	0	0
Central Heating Coil	Outlet	70.9	0.00026	147	400	2862	-
Supply Fan	Outlet	70.9	0.00026	147	400	0	-
Cold Supply Duct	Outlet	70.9	0.00026	147	400	-	-
Zone Air	-	70.0	0.00026	147	400	-148	0
Return Air	Outlet	70.0	0.00026	147	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Réception1	-148	Heating	-148	70.0	147	400	0	0

Air System Sizing Summary for 68 RDC Poste2 162 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **68 RDC Poste2 162 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **135.0** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.3** Tons
Total coil load **4.2** MBH
Sensible coil load **2.6** MBH
Coil CFM at peak load **150** CFM
Sum of peak zone CFM **150** CFM
Sensible heat ratio **0.634**
CFM/Ton **434.1**
sqft/Ton **389.4**
BTU/(hr sqft) **30.8**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 15:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **76.9 / 68.9** F
Leaving DB / WB **61.0 / 60.6** F
Resulting RH **61** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **5.2** MBH
Coil CFM at Design Heating **150** CFM
Max coil CFM **150** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **38.3**
Ent. DB / Lvg DB **54.7 / 86.5** F

Supply Fan Sizing Data

Design CFM **150** CFM
Design CFM/sqft **1.11** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **135** CFM
CFM/sqft **1.00** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 68 RDC Poste2 162 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **68 RDC Poste2 162 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **135.0** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC Poste2 162	150	150	1.11	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC Poste2 162	2.8	September 15:00	2.7	135.0

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC Poste2 162						
RDC Poste2 162	2.8	September 15:00	150	2.7	135.0	1.11

Air System Heat Balance Summary for 68 RDC Poste2 162 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	2312	51	-	2673	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	150 CFM	0	-	150 CFM	0	-
Ventilation Load	135 CFM	304	1357	135 CFM	2485	0
Supply Fan Load	150 CFM	0	-	150 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	2617	1408	-	5158	0
Central Cooling Coil	-	2638	1520	-	0	0
Central Heating Coil	-	0	-	-	5165	-
>> Total Conditioning	-	2638	1520	-	5165	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	86 sqft	202	-	86 sqft	214	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	16 sqft	166	-	16 sqft	164	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	0 sqft	0	-	0 sqft	0	-
Floor Convection	135 sqft	695	-	135 sqft	471	-
Interior Wall Convection	375 sqft	684	-	375 sqft	160	-
Ceiling Convection	135 sqft	398	-	135 sqft	124	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	10 CFM	1191	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	322	0	15%	349	0
>> Total Zone Loads	-	2467	0	-	2672	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 68 RDC Poste2 162 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT AUGUST 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	135	400	304	1357
Air-to-Air Energy Recovery	Outlet	77.1	0.01352	135	400	1328	0
Vent - Return Mixing	Outlet	76.9	0.01331	150	400	-	-
Central Cooling Coil	Outlet	61.0	0.01124	150	400	2638	1520
Central Heating Coil	Outlet	61.0	0.01124	150	400	0	-
Supply Fan	Outlet	61.0	0.01124	150	400	0	-
Cold Supply Duct	Outlet	61.0	0.01124	150	400	-	-
Zone Air	-	75.0	0.01131	150	400	2312	51
Return Air	Outlet	75.0	0.01140	150	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Poste2 162	2312	Cooling	2312	75.0	150	400	0	0

System Psychrometrics for 68 RDC Poste2 162 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	135	400	-2485	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	135	400	-10624	0
Vent - Return Mixing	Outlet	54.7	0.00026	150	400	-	-
Central Cooling Coil	Outlet	54.7	0.00026	150	400	0	0
Central Heating Coil	Outlet	86.5	0.00026	150	400	5165	-
Supply Fan	Outlet	86.5	0.00026	150	400	0	-
Cold Supply Duct	Outlet	86.5	0.00026	150	400	-	-
Zone Air	-	70.0	0.00026	150	400	-2673	0
Return Air	Outlet	70.0	0.00026	150	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Poste2 162	-2673	Heating	-2673	70.0	150	400	0	0

Air System Sizing Summary for 69 RDC Salle Com. 173 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **69 RDC Salle Com. 173 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **1397.0** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.7** Tons
Total coil load **8.3** MBH
Sensible coil load **3.9** MBH
Coil CFM at peak load **583** CFM
Sum of peak zone CFM **583** CFM
Sensible heat ratio **0.470**
CFM/Ton **845.6**
sqft/Ton **2026.2**
BTU/(hr sqft) **5.9**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 7:00**
OA DB / WB **68.8 / 66.5** F
Entering DB / WB **68.9 / 66.6** F
Leaving DB / WB **62.9 / 62.4** F
Resulting RH **66** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **23.5** MBH
Coil CFM at Design Heating **583** CFM
Max coil CFM **583** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **16.8**
Ent. DB / Lvg DB **52.9 / 90.3** F

Supply Fan Sizing Data

Design CFM **583** CFM
Design CFM/sqft **0.42** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **583** CFM
CFM/sqft **0.42** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 69 RDC Salle Com. 173 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **69 RDC Salle Com. 173 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **1397.0** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC Salons résidents	583	583	0.42	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC Salons résidents	9.7	June 7:00	12.7	1397.0

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC Salons résidents						
RDC Salons résidents	9.7	June 7:00	583	12.7	1397.0	0.42

Air System Heat Balance Summary for 69 RDC Salle Com. 173 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	7790	1104	-	12758	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	583 CFM	0	-	583 CFM	0	-
Ventilation Load	583 CFM	-3808	2639	583 CFM	10732	0
Supply Fan Load	583 CFM	0	-	583 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	3981	3743	-	23490	0
Central Cooling Coil	-	3891	4383	-	0	0
Central Heating Coil	-	0	-	-	23520	-
>> Total Conditioning	-	3891	4383	-	23520	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 7:00			DESIGN HEATING		
	OA DB / WB 68.8 F / 66.5 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	239 sqft	221	-	239 sqft	530	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	94 sqft	210	-	94 sqft	926	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	47 sqft	198	-	47 sqft	465	-
Floor Convection	1397 sqft	2041	-	1397 sqft	2999	-
Interior Wall Convection	1491 sqft	1963	-	1491 sqft	570	-
Ceiling Convection	1397 sqft	2876	-	1397 sqft	1166	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	38 CFM	4417	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	1127	0	15%	1661	0
>> Total Zone Loads	-	8637	0	-	12735	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 69 RDC Salle Com. 173 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:14 PM

DESIGN COOLING DAY AT JULY 7:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	68.9	0.01349	583	400	-3808	2639
Air-to-Air Energy Recovery	Outlet	68.9	0.01349	583	400	0	0
Vent - Return Mixing	Outlet	68.9	0.01349	583	400	-	-
Central Cooling Coil	Outlet	62.9	0.01195	583	400	3891	4383
Central Heating Coil	Outlet	62.9	0.01195	583	400	0	-
Supply Fan	Outlet	62.9	0.01195	583	400	0	-
Cold Supply Duct	Outlet	62.9	0.01195	583	400	-	-
Zone Air	-	75.0	0.01235	583	400	7790	1104
Return Air	Outlet	75.0	0.01253	583	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Salons résidents	7783	Cooling	7790	75.0	583	400	0	0

System Psychrometrics for 69 RDC Salle Com. 173 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:14 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	583	400	-10732	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	583	400	-45881	0
Vent - Return Mixing	Outlet	52.9	0.00026	583	400	-	-
Central Cooling Coil	Outlet	52.9	0.00026	583	400	0	0
Central Heating Coil	Outlet	90.3	0.00026	583	400	23520	-
Supply Fan	Outlet	90.3	0.00026	583	400	0	-
Cold Supply Duct	Outlet	90.3	0.00026	583	400	-	-
Zone Air	-	70.0	0.00026	583	400	-12758	0
Return Air	Outlet	70.0	0.00026	583	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Salons résidents	-12758	Heating	-12758	70.0	583	400	0	0

Air System Sizing Summary for 70 RDC salle commune 175 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:14 PM

Air System Information

Air System Name **70 RDC salle commune 175 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **193.7** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.4** Tons
Total coil load **4.8** MBH
Sensible coil load **4.2** MBH
Coil CFM at peak load **254** CFM
Sum of peak zone CFM **254** CFM
Sensible heat ratio **0.869**
CFM/Ton **633.0**
sqft/Ton **482.6**
BTU/(hr sqft) **24.9**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 10:00**
OA DB / WB **76.4 / 68.9** F
Entering DB / WB **75.0 / 65.5** F
Leaving DB / WB **60.1 / 59.6** F
Resulting RH **58** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **4.6** MBH
Coil CFM at Design Heating **254** CFM
Max coil CFM **254** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **23.9**
Ent. DB / Lvg DB **67.5 / 84.4** F

Supply Fan Sizing Data

Design CFM **254** CFM
Design CFM/sqft **1.31** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **37** CFM
CFM/sqft **0.19** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 70 RDC salle commune 175 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:14 PM

Air System Information

Air System Name **70 RDC salle commune 175 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **193.7** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC salle commune 175	254	254	1.31	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC salle commune 175	4.6	September 10:00	3.9	193.7

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC salle commune 175						
RDC salle commune 175	4.6	September 10:00	254	3.9	193.7	1.31

Air System Heat Balance Summary for 70 RDC salle commune 175 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:14 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 10:00			DESIGN HEATING		
	OA DB / WB 76.4 F / 68.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	4172	63	-	3944	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	254 CFM	0	-	254 CFM	0	-
Ventilation Load	37 CFM	12	453	37 CFM	681	0
Supply Fan Load	254 CFM	0	-	254 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	4184	515	-	4625	0
Central Cooling Coil	-	4188	629	-	0	0
Central Heating Coil	-	0	-	-	4627	-
>> Total Conditioning	-	4188	629	-	4627	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 10:00			DESIGN HEATING		
	OA DB / WB 76.4 F / 68.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	118 sqft	379	-	118 sqft	305	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	28 sqft	276	-	28 sqft	288	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	0 sqft	0	-	0 sqft	0	-
Floor Convection	194 sqft	759	-	194 sqft	695	-
Interior Wall Convection	460 sqft	1434	-	460 sqft	231	-
Ceiling Convection	194 sqft	916	-	194 sqft	198	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	15 CFM	1694	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	564	0	15%	511	0
>> Total Zone Loads	-	4327	0	-	3921	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 70 RDC salle commune 175 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:14 PM

DESIGN COOLING DAY AT AUGUST 10:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	76.6	0.01351	37	400	12	453
Air-to-Air Energy Recovery	Outlet	75.3	0.01351	37	400	52	0
Vent - Return Mixing	Outlet	75.0	0.01130	254	400	-	-
Central Cooling Coil	Outlet	60.1	0.01079	254	400	4188	629
Central Heating Coil	Outlet	60.1	0.01079	254	400	0	-
Supply Fan	Outlet	60.1	0.01079	254	400	0	-
Cold Supply Duct	Outlet	60.1	0.01079	254	400	-	-
Zone Air	-	75.0	0.01085	254	400	4172	63
Return Air	Outlet	75.0	0.01092	254	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC salle commune 175	4172	Cooling	4172	75.0	254	400	0	0

System Psychrometrics for 70 RDC salle commune 175 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:14 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	37	400	-681	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	37	400	-2912	0
Vent - Return Mixing	Outlet	67.5	0.00026	254	400	-	-
Central Cooling Coil	Outlet	67.5	0.00026	254	400	0	0
Central Heating Coil	Outlet	84.4	0.00026	254	400	4627	-
Supply Fan	Outlet	84.4	0.00026	254	400	0	-
Cold Supply Duct	Outlet	84.4	0.00026	254	400	-	-
Zone Air	-	70.0	0.00026	254	400	-3944	0
Return Air	Outlet	70.0	0.00026	254	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC salle commune 175	-3944	Heating	-3944	70.0	254	400	0	0

Air System Sizing Summary for 71 RDC SOINS 167 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:15 PM

Air System Information

Air System Name **71 RDC SOINS 167 CPT**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **196.0** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **0.4** Tons
Total coil load **4.3** MBH
Sensible coil load **2.1** MBH
Coil CFM at peak load **196** CFM
Sum of peak zone CFM **196** CFM
Sensible heat ratio **0.483**
CFM/Ton **544.1**
sqft/Ton **544.0**
BTU/(hr sqft) **22.1**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 8:00**
OA DB / WB **70.0 / 66.9** F
Entering DB / WB **70.4 / 67.1** F
Leaving DB / WB **60.8 / 60.4** F
Resulting RH **60** %
Design supply temp. **58.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Central Heating Coil Sizing Data

Max coil load **7.1** MBH
Coil CFM at Design Heating **196** CFM
Max coil CFM **196** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
BTU/(hr sqft) **36.3**
Ent. DB / Lvg DB **52.9 / 86.6** F

Supply Fan Sizing Data

Design CFM **196** CFM
Design CFM/sqft **1.00** CFM/sqft

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **196** CFM
CFM/sqft **1.00** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 71 RDC SOINS 167 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **71 RDC SOINS 167 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **196.0** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Sum of space airflow rates**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC SOINS 167	196	196	1.00	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC SOINS 167	3.5	June 8:00	3.5	196.0

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC SOINS 167						
RDC SOINS 167	3.5	June 8:00	196	3.5	196.0	1.00

Air System Heat Balance Summary for 71 RDC SOINS 167 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:15 PM

Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	3073	-3	-	3503	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	196 CFM	0	-	196 CFM	0	-
Ventilation Load	196 CFM	-972	2153	196 CFM	3608	0
Supply Fan Load	196 CFM	0	-	196 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	2101	2150	-	7111	0
Central Cooling Coil	-	2087	2235	-	0	0
Central Heating Coil	-	0	-	-	7121	-
>> Total Conditioning	-	2087	2235	-	7121	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	85 sqft	154	-	85 sqft	218	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	33 sqft	217	-	33 sqft	335	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	0 sqft	0	-	0 sqft	0	-
Floor Convection	196 sqft	825	-	196 sqft	652	-
Interior Wall Convection	460 sqft	1165	-	460 sqft	247	-
Ceiling Convection	196 sqft	627	-	196 sqft	207	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	12 CFM	1381	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	448	0	15%	456	0
>> Total Zone Loads	-	3436	0	-	3495	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 71 RDC SOINS 167 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:15 PM

DESIGN COOLING DAY AT JULY 8:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	70.4	0.01350	196	400	-972	2153
Air-to-Air Energy Recovery	Outlet	70.4	0.01350	196	400	0	0
Vent - Return Mixing	Outlet	70.4	0.01350	196	400	-	-
Central Cooling Coil	Outlet	60.8	0.01116	196	400	2087	2235
Central Heating Coil	Outlet	60.8	0.01116	196	400	0	-
Supply Fan	Outlet	60.8	0.01116	196	400	0	-
Cold Supply Duct	Outlet	60.8	0.01116	196	400	-	-
Zone Air	-	75.0	0.01116	196	400	3073	-3
Return Air	Outlet	75.0	0.01117	196	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC SOINS 167	3073	Cooling	3073	75.0	196	400	0	0

System Psychrometrics for 71 RDC SOINS 167 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

2:15 PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	196	400	-3608	0
Air-to-Air Energy Recovery	Outlet	52.9	0.00026	196	400	-15425	0
Vent - Return Mixing	Outlet	52.9	0.00026	196	400	-	-
Central Cooling Coil	Outlet	52.9	0.00026	196	400	0	0
Central Heating Coil	Outlet	86.6	0.00026	196	400	7121	-
Supply Fan	Outlet	86.6	0.00026	196	400	0	-
Cold Supply Duct	Outlet	86.6	0.00026	196	400	-	-
Zone Air	-	70.0	0.00026	196	400	-3503	0
Return Air	Outlet	70.0	0.00026	196	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC SOINS 167	-3503	Heating	-3503	70.0	196	400	0	0

Air System Sizing Summary for 72 SAS/Corridor CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

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Air System Information

Air System Name **72 SAS/Corridor CPT**
Equipment Class **SPLT AHU**
Air System Type **VAV**

Number of zones **9**
Floor Area **15164.9** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Peak zone sensible load**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **4.8** Tons
Total coil load **57.4** MBH
Sensible coil load **49.7** MBH
Coil CFM at peak load **2354** CFM
Sum of peak zone CFM **4059** CFM
Sensible heat ratio **0.866**
CFM/Ton **492.5**
sqft/Ton **3173.0**
BTU/(hr sqft) **3.8**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **July 8:00**
OA DB / WB **70.0 / 66.9** F
Entering DB / WB **74.2 / 62.7** F
Leaving DB / WB **55.0 / 54.4** F
Resulting RH **49** %
Design supply temp. **55.0** F
Zone T-stat Check **9 of 9** OK
Max zone temperature deviation **0.0** F

Preheat Coil Sizing Data

Max coil load **6.7** MBH
Coil CFM at February 7:00 **374** CFM
Max coil CFM **2605** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **February 7:00**
Ent. DB / Lvg DB **33.3 / 50.0** F

Supply Fan Sizing Data

Design CFM **2605** CFM
Design CFM occurs at **July 8:00**
Design CFM/sqft **0.17** CFM/sqft
Sum of peak zone CFM **4059** CFM
VAV Fan Diversity **35.8** %

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **327** CFM
CFM/sqft **0.02** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 72 SAS/Corridor CPT

(In Alternative: b) Alternative CPT)

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Air System Information

Air System Name **72 SAS/Corridor CPT**
 Equipment Class **SPLT AHU**
 Air System Type **VAV**

Number of zones **9**
 Floor Area **15164.9** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Peak zone sensible load**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E corridor	382	4	0.10	4.5	-	0.0	-	0
3E corridor 300	419	4	0.11	4.5	-	0.0	-	0
4E corridor 400	572	226	0.15	16.7	-	0.0	-	0
RDC Corridor	119	1	0.05	0.0	-	0.0	-	0
RDC Corridor 100	232	59	0.24	5.7	-	0.0	-	0
RDC Corridor 100A	12	12	0.06	0.3	-	0.0	-	0
RDC Hall/Vestibule 170/171	1797	18	6.80	51.1	-	0.0	-	0
RDC Vestibule 001	350	10	2.17	15.0	-	0.0	-	0
RDC Vestibule100C	175	4	2.54	3.2	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E corridor	8.2	July 18:00	3.7	3762.6
3E corridor 300	9.0	July 18:00	3.7	3768.3
4E corridor 400	12.3	July 18:00	11.4	3765.4
RDC Corridor	2.6	August 17:00	1.2	2188.7
RDC Corridor 100	5.0	June 18:00	3.7	980.6
RDC Corridor 100A	0.2	October 17:00	0.1	205.2
RDC Hall/Vestibule 170/171	38.7	June 8:00	31.8	264.3
RDC Vestibule 001	1.1	August 19:00	9.4	161.1
RDC Vestibule100C	3.8	October 15:00	2.0	68.8

Zone Sizing Summary for 72 SAS/Corridor CPT

(In Alternative: b) Alternative CPT)

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Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E corridor						
2E corridor	8.2	July 18:00	382	3.7	3762.6	0.10
3E corridor 300						
3E corridor 300	9.0	July 18:00	419	3.7	3768.3	0.11
4E corridor 400						
4E corridor 400	12.3	July 18:00	572	11.4	3765.4	0.15
RDC Corridor						
RDC Corridor	2.6	August 17:00	119	1.2	2188.7	0.05
RDC Corridor 100						
RDC Corridor 100	5.0	June 18:00	232	3.7	980.6	0.24
RDC Corridor 100A						
RDC Corridor 100A	0.2	October 17:00	12	0.1	205.2	0.06
RDC Hall/Vestibule 170/171						
RDC Vestibule 171	38.7	June 8:00	1797	31.8	264.3	6.80
RDC Vestibule 001						
RDC Vestibule 001	1.1	August 19:00	350	9.4	161.1	2.17
RDC Vestibule100C						
RDC Vestibule100C	3.8	October 15:00	175	2.0	68.8	2.54

Air System Heat Balance Summary for 72 SAS/Corridor CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	51089	328	-	63013	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	2354 CFM	0	-	2346 CFM	0	-
Ventilation Load	327 CFM	-1564	7112	327 CFM	31653	0
Supply Fan Load	2354 CFM	0	-	2346 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	49525	7440	-	94666	0
Central Cooling Coil	-	49667	7685	-	-6249	0
Preheat Coil	-	0	-	-	0	-
Terminal Reheat Coils	-	0	-	-	101005	-
>> Total Conditioning	-	49667	7685	-	94756	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - JULY 8:00			DESIGN HEATING		
	OA DB / WB 70.0 F / 66.9 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	1194 sqft	5937	-	1194 sqft	4282	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	631 sqft	6505	-	631 sqft	9466	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	98 sqft	1097	-	98 sqft	1470	-
Floor Convection	15165 sqft	8509	-	15165 sqft	5772	-
Interior Wall Convection	46402 sqft	19699	-	46402 sqft	9167	-
Ceiling Convection	15165 sqft	6750	-	15165 sqft	7864	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	174 CFM	20290	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	7274	0	15%	8746	0
>> Total Zone Loads	-	55771	0	-	67055	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 72 SAS/Corridor CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT JULY 8:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	70.4	0.01350	327	400	-1564	7112
Vent - Return Mixing	Outlet	74.2	0.00953	2354	400	-	-
Preheat Coil	Outlet	74.2	0.00953	2354	400	0	-
Central Cooling Coil	Outlet	55.0	0.00886	2354	400	49667	7685
Supply Fan	Outlet	55.0	0.00886	2354	400	0	-
Cold Supply Duct	Outlet	55.0	0.00886	2354	400	-	-
Zone Air	-	74.6	0.00898	2354	400	51089	328
Return Air	Outlet	74.8	0.00889	2354	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E corridor	2739	Cooling	2739	75.0	125	400	0	0
3E corridor 300	2972	Cooling	2973	75.0	135	400	0	0
4E corridor 400	0	Deadband	4660	73.8	226	400	0	0
RDC Corridor	1050	Cooling	1051	75.0	48	400	0	0
RDC Corridor 100	0	Deadband	1221	73.9	59	400	0	0
RDC Corridor 100A	0	Deadband	239	72.7	12	400	0	0
RDC Hall/Vestibule 170/171	37933	Cooling	37933	75.0	1729	400	0	0
RDC Vestibule 001	0	Deadband	195	73.4	10	400	0	0
RDC Vestibule100C	210	Cooling	210	75.0	10	400	0	0

System Psychrometrics for 72 SAS/Corridor CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	327	400	-31653	0
Vent - Return Mixing	Outlet	57.5	0.00026	2346	400	-	-
Preheat Coil	Outlet	57.5	0.00026	2346	400	0	-
Central Cooling Coil	Outlet	55.0	0.00026	2346	400	6249	0
Supply Fan	Outlet	55.0	0.00026	2346	400	0	-
Cold Supply Duct	Outlet	55.0	0.00026	2346	400	-	-
Zone Air	-	69.8	0.00026	2346	400	-63013	0
Return Air	Outlet	70.0	0.00026	2346	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E corridor	-2829	Heating	-2829	70.0	105	400	4526	0
3E corridor 300	-2841	Heating	-2841	70.0	105	400	4545	0
4E corridor 400	-10428	Heating	-10428	70.0	386	400	16685	0
RDC Corridor	-6550	Heating	18	68.8	1	400	0	0
RDC Corridor 100	-3535	Heating	-3535	70.0	131	400	5656	0
RDC Corridor 100A	-72	Heating	-72	70.0	12	400	272	0
RDC Hall/Vestibule 170/171	-31948	Heating	-31948	70.0	1184	400	51117	0
RDC Vestibule 001	-9403	Heating	-9403	70.0	348	400	15044	0
RDC Vestibule100C	-1975	Heating	-1975	70.0	73	400	3160	0

Air System Sizing Summary for 73 169/ 170 / Corridor 100 et 2E HALL 170 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **73 169/ 170 / Corridor 100 et 2E HALL 170**
CPT
Equipment Class **SPLT AHU**
Air System Type **VAV**

Number of zones **2**
Floor Area **2895.3** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Peak zone sensible load**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **1.0** Tons
Total coil load **12.4** MBH
Sensible coil load **7.5** MBH
Coil CFM at peak load **220** CFM
Sum of peak zone CFM **555** CFM
Sensible heat ratio **0.609**
CFM/Ton **212.9**
sqft/Ton **2802.0**
BTU/(hr sqft) **4.3**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **August 15:00**
OA DB / WB **86.1 / 71.8** F
Entering DB / WB **86.0 / 71.8** F
Leaving DB / WB **55.0 / 54.6** F
Resulting RH **51** %
Design supply temp. **55.0** F
Zone T-stat Check **2 of 2** OK
Max zone temperature deviation **0.0** F

Preheat Coil Sizing Data

Max coil load **9.6** MBH
Coil CFM at Design Heating **544** CFM
Max coil CFM **546** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **Design Heating**
Ent. DB / Lvg DB **33.6 / 50.0** F

Supply Fan Sizing Data

Design CFM **546** CFM
Design CFM occurs at **July 18:00**
Design CFM/sqft **0.19** CFM/sqft
Sum of peak zone CFM **555** CFM
VAV Fan Diversity **1.6** %

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **220** CFM
CFM/sqft **0.08** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 73 169/ 170 / Corridor 100 et 2E HALL 170 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **73 169/ 170 / Corridor 100 et 2E HALL 170**

CPT Number of zones **2**

Equipment Class **SPLT AHU**

Air System Type **VAV**

Floor Area **2895.3** sqft

Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**

Sizing Data **Calculated**

Zone CFM Sizing **Peak zone sensible load**

Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
2E Hall 170	43	40	0.07	1.2	-	0.0	-	0
RDC 169 / 170 / Corridor 100	512	180	0.23	24.5	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
2E Hall 170	0.9	July 9:00	0.4	660.6
RDC 169 / 170 / Corridor 100	5.5	July 18:00	13.8	2234.7

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
2E Hall 170						
2E Hall 170	0.9	July 9:00	43	0.4	660.6	0.07
RDC 169 / 170 / Corridor 100						
RDC 169 / 170 / Corridor 100	5.5	July 18:00	512	13.8	2234.7	0.23

Air System Heat Balance Summary for 73 169/ 170 / Corridor 100 et 2E HALL 170 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	4421	14	-	13934	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	220 CFM	0	-	544 CFM	0	-
Ventilation Load	220 CFM	2972	4688	220 CFM	21315	0
Supply Fan Load	220 CFM	0	-	544 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	7393	4702	-	35248	0
Central Cooling Coil	-	7549	4851	-	0	0
Preheat Coil	-	0	-	-	9625	-
Terminal Reheat Coils	-	0	-	-	25684	-
>> Total Conditioning	-	7549	4851	-	35309	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - AUGUST 15:00			DESIGN HEATING		
	OA DB / WB 86.1 F / 71.8 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	328 sqft	207	-	328 sqft	663	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	66 sqft	120	-	66 sqft	656	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	21 sqft	56	-	21 sqft	557	-
Floor Convection	2895 sqft	1071	-	2895 sqft	3247	-
Interior Wall Convection	4710 sqft	1748	-	4710 sqft	1057	-
Ceiling Convection	2895 sqft	691	-	2895 sqft	1318	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	42 CFM	4844	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	584	0	15%	1851	0
>> Total Zone Loads	-	4477	0	-	14193	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 73 169/ 170 / Corridor 100 et 2E HALL 170 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT AUGUST 15:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	86.0	0.01352	220	400	2972	4688
Vent - Return Mixing	Outlet	86.0	0.01352	220	400	-	-
Preheat Coil	Outlet	86.0	0.01352	220	400	0	-
Central Cooling Coil	Outlet	55.0	0.00901	220	400	7549	4851
Supply Fan	Outlet	55.0	0.00901	220	400	0	-
Cold Supply Duct	Outlet	55.0	0.00901	220	400	-	-
Zone Air	-	73.5	0.00902	220	400	4421	14
Return Air	Outlet	73.5	0.00902	220	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E Hall 170	0	Deadband	820	73.7	40	400	0	0
RDC 169 / 170 / Corridor 100	0	Deadband	3642	73.4	180	400	0	0

System Psychrometrics for 73 169/ 170 / Corridor 100 et 2E HALL 170 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	220	400	-21315	0
Vent - Return Mixing	Outlet	33.6	0.00026	544	400	-	-
Preheat Coil	Outlet	50.0	0.00026	544	400	9625	-
Central Cooling Coil	Outlet	50.0	0.00026	544	400	0	0
Supply Fan	Outlet	50.0	0.00026	544	400	0	-
Cold Supply Duct	Outlet	50.0	0.00026	544	400	-	-
Zone Air	-	70.0	0.00026	544	400	-13934	0
Return Air	Outlet	70.0	0.00026	544	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
2E Hall 170	-326	Heating	-326	70.0	40	400	1190	0
RDC 169 / 170 / Corridor 100	-13608	Heating	-13608	70.0	504	400	24494	0

Air System Sizing Summary for 74 RDC Passage couvert 176 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Information

Air System Name **74 RDC Passage couvert 176 CPT**
Equipment Class **SPLT AHU**
Air System Type **VAV**

Number of zones **1**
Floor Area **980.4** sqft
Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
Sizing Data **Calculated**

Zone CFM Sizing **Peak zone sensible load**
Space CFM Sizing **Individual peak space loads**

Central Cooling Coil Sizing Data

Total coil load **5.5** Tons
Total coil load **66.4** MBH
Sensible coil load **65.4** MBH
Coil CFM at peak load **2984** CFM
Sum of peak zone CFM **3106** CFM
Sensible heat ratio **0.985**
CFM/Ton **539.4**
sqft/Ton **177.2**
BTU/(hr sqft) **67.7**
Water flow @ 10.0 F rise **N/A**

Peak coil load occurs at **September 11:00**
OA DB / WB **73.4 / 66.7** F
Entering DB / WB **75.0 / 62.1** F
Leaving DB / WB **55.0 / 54.4** F
Resulting RH **48** %
Design supply temp. **55.0** F
Zone T-stat Check **1 of 1** OK
Max zone temperature deviation **0.0** F

Preheat Coil Sizing Data

Max coil load **1.3** MBH
Coil CFM at January 8:00 **71** CFM
Max coil CFM **3106** CFM
Water flow @ 20.0 F drop **N/A**

Load occurs at **January 8:00**
Ent. DB / Lvg DB **33.2 / 50.0** F

Supply Fan Sizing Data

Design CFM **3106** CFM
Design CFM occurs at **September 11:00**
Design CFM/sqft **3.17** CFM/sqft
Sum of peak zone CFM **3106** CFM
VAV Fan Diversity **0.0** %

Fan motor BHP **0.00** BHP
Fan motor kW **0.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **59** CFM
CFM/sqft **0.06** CFM/sqft

CFM/person **0.00** CFM/person

Zone Sizing Summary for 74 RDC Passage couvert 176 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

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Air System Information

Air System Name **74 RDC Passage couvert 176 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **VAV**

Number of zones **1**
 Floor Area **980.4** sqft
 Location **Montreal St-Hubert, QC, Canada**

Sizing Calculation Information

Calculation Months **Jan to Dec**
 Sizing Data **Calculated**

Zone CFM Sizing **Peak zone sensible load**
 Space CFM Sizing **Individual peak space loads**

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/sqft	Reheat Coil Capacity (MBH)	Reheat Coil Water gpm @ 20.0 F	Zone Htg Unit Coil Capacity (MBH)	Zone Htg Unit Water gpm @ 20.0 F	Mixing Box Fan Airflow (CFM)
RDC Passage couvert 176	3106	59	3.17	105.5	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (sqft)
RDC Passage couvert 176	66.9	September 11:00	65.8	980.4

Space Loads and Airflows

Zone Name / Space Name	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (sqft)	Space CFM/sqft
RDC Passage couvert 176						
RDC Passage couvert 176	66.9	September 11:00	3106	65.8	980.4	3.17

Air System Heat Balance Summary for 74 RDC Passage couvert 176 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

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Table 1. System Loads

COMPONENT LOADS	DESIGN COOLING - SEPTEMBER 11:00			DESIGN HEATING		
	OA DB / WB 73.4 F / 66.7 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	65465	-9	-	65916	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	2984 CFM	0	-	2442 CFM	0	-
Ventilation Load	59 CFM	-91	1018	59 CFM	5699	0
Supply Fan Load	2984 CFM	0	-	2442 CFM	0	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	65374	1009	-	71615	0
Central Cooling Coil	-	65384	1012	-	-33834	0
Preheat Coil	-	0	-	-	0	-
Terminal Reheat Coils	-	0	-	-	105465	-
>> Total Conditioning	-	65384	1012	-	71631	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

Zone Heat Balance Component	DESIGN COOLING - SEPTEMBER 11:00			DESIGN HEATING		
	OA DB / WB 73.4 F / 66.7 F			OA DB / WB -20.0 F / -20.0 F		
	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	1311 sqft	12620	-	1311 sqft	5967	-
Roof Convection	0 sqft	0	-	0 sqft	0	-
Window Convection	758 sqft	9192	-	758 sqft	12336	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	149 sqft	1800	-	149 sqft	2418	-
Floor Convection	980 sqft	20395	-	980 sqft	7294	-
Interior Wall Convection	171 sqft	1613	-	171 sqft	340	-
Ceiling Convection	980 sqft	12538	-	980 sqft	2979	-
Overhead Lighting Convection	0 W	0	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	0 W	0	-	0 W	0	-
People Convection	0	0	0	0	0	0
Infiltration	0 CFM	0	0	222 CFM	25874	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0	-	-	0	0
Safety Factor	15% / 15%	8724	0	15%	8581	0
>> Total Zone Loads	-	66881	0	-	65791	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

System Psychrometrics for 74 RDC Passage couvert 176 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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DESIGN COOLING DAY AT SEPTEMBER 11:00

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	73.6	0.01254	59	400	-91	1018
Vent - Return Mixing	Outlet	75.0	0.00895	2984	400	-	-
Preheat Coil	Outlet	75.0	0.00895	2984	400	0	-
Central Cooling Coil	Outlet	55.0	0.00889	2984	400	65384	1012
Supply Fan	Outlet	55.0	0.00889	2984	400	0	-
Cold Supply Duct	Outlet	55.0	0.00889	2984	400	-	-
Zone Air	-	75.0	0.00888	2984	400	65465	-9
Return Air	Outlet	75.0	0.00888	2984	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Passage couvert 176	65465	Cooling	65465	75.0	2984	400	0	0

System Psychrometrics for 74 RDC Passage couvert 176 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	-20.0	0.00026	59	400	-5699	0
Vent - Return Mixing	Outlet	67.8	0.00026	2442	400	-	-
Preheat Coil	Outlet	67.8	0.00026	2442	400	0	-
Central Cooling Coil	Outlet	55.0	0.00026	2442	400	33834	0
Supply Fan	Outlet	55.0	0.00026	2442	400	0	-
Cold Supply Duct	Outlet	55.0	0.00026	2442	400	-	-
Zone Air	-	70.0	0.00026	2442	400	-65916	0
Return Air	Outlet	70.0	0.00026	2442	400	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.076 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4731.2 BTU/(hr-CFM)

Site Altitude = 90.0 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
RDC Passage couvert 176	-65916	Heating	-65916	70.0	2442	400	105465	0

Annual Cost Summary

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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Table 1. Annual Costs

Component	a) Alternative REF (\$)	b) Alternative CPT (\$)
Air System Fans	0	0
Cooling	2,722	3,610
Heating	67,424	35,119
Pumps	0	0
Heat Rejection Fans	0	0
HVAC Sub-Total	70,147	38,729
Lights	0	0
Electric Equipment	0	0
Misc. Electric	0	0
Misc. Fuel Use	0	0
Non-HVAC Sub-Total	0	0
Grand Total	70,147	38,729

Table 2. Annual Cost per Unit Floor Area

Component	a) Alternative REF (\$/sqft)	b) Alternative CPT (\$/sqft)
Air System Fans	0.000	0.000
Cooling	0.021	0.028
Heating	0.527	0.274
Pumps	0.000	0.000
Heat Rejection Fans	0.000	0.000
HVAC Sub-Total	0.548	0.303
Lights	0.000	0.000
Electric Equipment	0.000	0.000
Misc. Electric	0.000	0.000
Misc. Fuel Use	0.000	0.000
Non-HVAC Sub-Total	0.000	0.000
Grand Total	0.548	0.303
Gross Floor Area (sqft)	127987.6	127987.6
Modeled Floor Area (sqft)	127987.6	127987.6

Note: Values in this table are calculated using the Gross Floor Area.

Table 3. Component Cost as a Percentage of Total Cost

Component	a) Alternative REF (%)	b) Alternative CPT (%)
Air System Fans	0.0	0.0
Cooling	3.9	9.3
Heating	96.1	90.7
Pumps	0.0	0.0
Heat Rejection Fans	0.0	0.0
HVAC Sub-Total	100.0	100.0
Lights	0.0	0.0
Electric Equipment	0.0	0.0
Misc. Electric	0.0	0.0
Misc. Fuel Use	0.0	0.0
Non-HVAC Sub-Total	0.0	0.0
Grand Total	100.0	100.0

Annual Energy and Emissions Summary

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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Table 1. Annual Costs

Component	a) Alternative REF (\$)	b) Alternative CPT (\$)
HVAC Components		
Electric	70,147	38,729
Natural Gas	0	0
Fuel Oil	0	0
Propane	0	0
Remote HW	0	0
Remote Steam	0	0
Remote CW	0	0
HVAC Sub-Total	70,147	38,729
Non-HVAC Components		
Electric	0	0
Natural Gas	0	0
Fuel Oil	0	0
Propane	0	0
Remote HW	0	0
Remote Steam	0	0
Non-HVAC Sub-Total	0	0
Grand Total	70,147	38,729

Table 2. Annual Energy Consumption

Component	a) Alternative REF	b) Alternative CPT
HVAC Components		
Electric (kWh)	717,737	396,277
Natural Gas (na)	0	0
Fuel Oil (na)	0	0
Propane (na)	0	0
Remote HW (na)	0	0
Remote Steam (na)	0	0
Remote CW (na)	0	0
Non-HVAC Components		
Electric (kWh)	0	0
Natural Gas (na)	0	0
Fuel Oil (na)	0	0
Propane (na)	0	0
Remote HW (na)	0	0
Remote Steam (na)	0	0
Totals		
Electric (kWh)	717,737	396,277
Natural Gas (na)	0	0
Fuel Oil (na)	0	0
Propane (na)	0	0
Remote HW (na)	0	0
Remote Steam (na)	0	0
Remote CW (na)	0	0

Annual Energy and Emissions Summary

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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Table 3. Annual Emissions

Component	a) Alternative REF	b) Alternative CPT
CO2 Equivalent (lb)	0	0

Table 4. Annual Cost per Unit Floor Area

Component	a) Alternative REF (\$/sqft)	b) Alternative CPT (\$/sqft)
HVAC Components		
Electric	0.548	0.303
Natural Gas	0.000	0.000
Fuel Oil	0.000	0.000
Propane	0.000	0.000
Remote HW	0.000	0.000
Remote Steam	0.000	0.000
Remote CW	0.000	0.000
HVAC Sub-Total	0.548	0.303
Non-HVAC Components		
Electric	0.000	0.000
Natural Gas	0.000	0.000
Fuel Oil	0.000	0.000
Propane	0.000	0.000
Remote HW	0.000	0.000
Remote Steam	0.000	0.000
Non-HVAC Sub-Total	0.000	0.000
Grand Total	0.548	0.303
Gross Floor Area (sqft)	127987.6	127987.6
Modeled Floor Area (sqft)	127987.6	127987.6

Note: Values in this table are calculated using the Gross Floor Area.

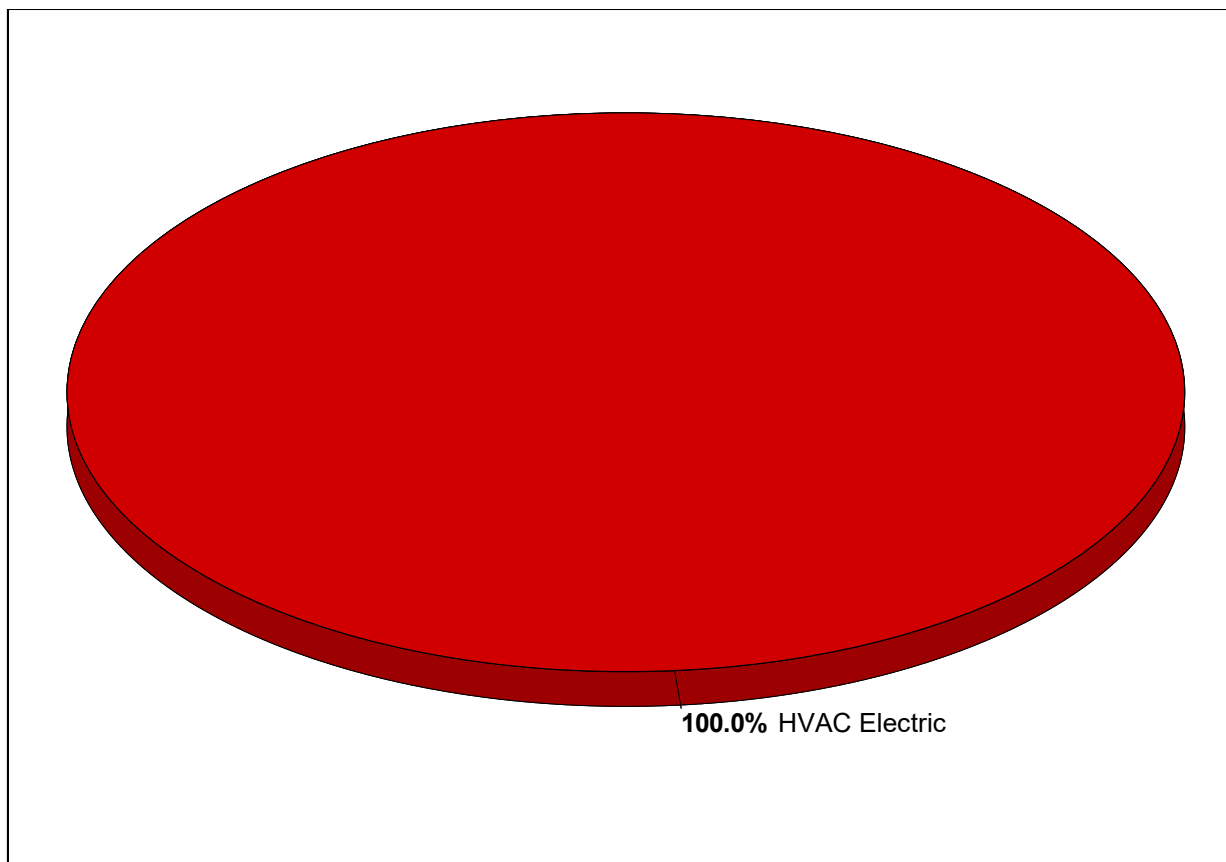
Table 5. Component Cost as a Percentage of Total Cost

Component	a) Alternative REF (%)	b) Alternative CPT (%)
HVAC Components		
Electric	100.0	100.0
Natural Gas	0.0	0.0
Fuel Oil	0.0	0.0
Propane	0.0	0.0
Remote HW	0.0	0.0
Remote Steam	0.0	0.0
Remote CW	0.0	0.0
HVAC Sub-Total	100.0	100.0
Non-HVAC Components		
Electric	0.0	0.0
Natural Gas	0.0	0.0
Fuel Oil	0.0	0.0
Propane	0.0	0.0
Remote HW	0.0	0.0
Remote Steam	0.0	0.0
Non-HVAC Sub-Total	0.0	0.0
Grand Total	100.0	100.0

Annual Energy Costs - a) Alternative REF

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
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1. Annual Costs

Component	Annual Cost (\$)	(\$/sqft)	Percent of Total (%)
HVAC Components			
Electric	70,147	0.548	100.0
Natural Gas	0	0.000	0.0
Fuel Oil	0	0.000	0.0
Propane	0	0.000	0.0
Remote Hot Water	0	0.000	0.0
Remote Steam	0	0.000	0.0
Remote Chilled Water	0	0.000	0.0
HVAC Sub-Total	70,147	0.548	100.0
Non-HVAC Components			
Electric	0	0.000	0.0
Natural Gas	0	0.000	0.0
Fuel Oil	0	0.000	0.0
Propane	0	0.000	0.0
Remote Hot Water	0	0.000	0.0
Remote Steam	0	0.000	0.0
Non-HVAC Sub-Total	0	0.000	0.0
Grand Total	70,147	0.548	100.0

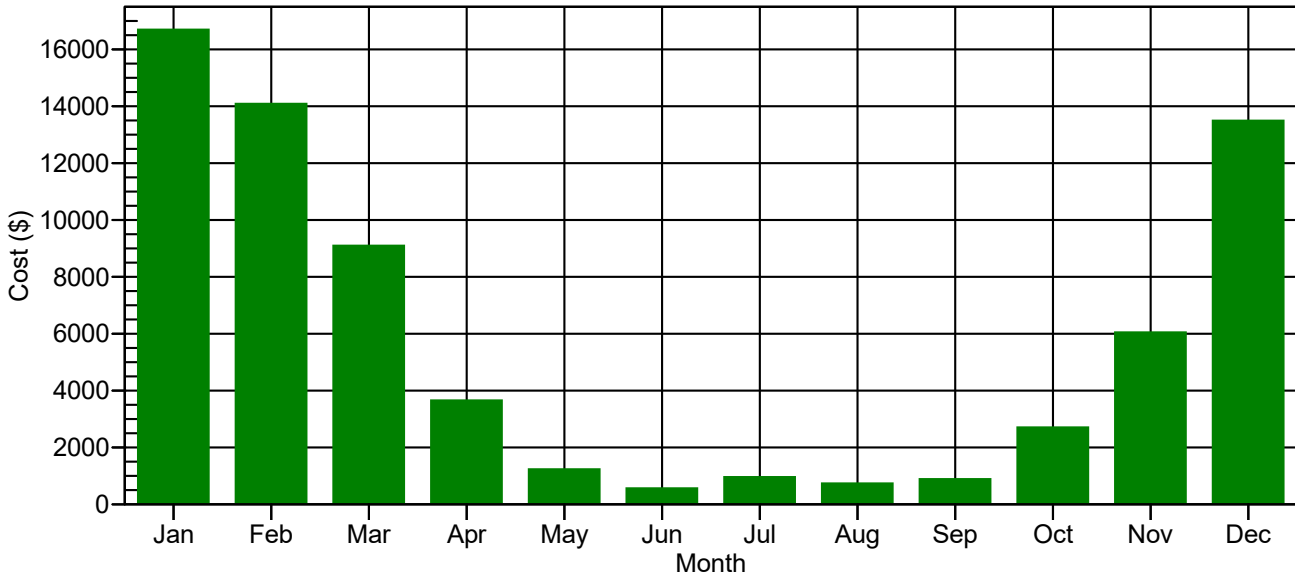
Note: Cost per unit floor area is based on the gross building floor area.

Gross Floor Area 127,987.6 sqft
Modeled Floor Area 127,987.6 sqft

Monthly Energy Costs - a) Alternative REF

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1. HVAC Costs

Month	Electric (\$)	Natural Gas (\$)	Fuel Oil (\$)	Propane (\$)	Remote Hot Water (\$)	Remote Steam (\$)	Remote Chilled Water (\$)
January	16,694	0	0	0	0	0	0
February	14,087	0	0	0	0	0	0
March	9,096	0	0	0	0	0	0
April	3,653	0	0	0	0	0	0
May	1,231	0	0	0	0	0	0
June	563	0	0	0	0	0	0
July	958	0	0	0	0	0	0
August	735	0	0	0	0	0	0
September	886	0	0	0	0	0	0
October	2,705	0	0	0	0	0	0
November	6,046	0	0	0	0	0	0
December	13,492	0	0	0	0	0	0
Total	70,147	0	0	0	0	0	0

2. Non-HVAC Costs

Month	Electric (\$)	Natural Gas (\$)	Fuel Oil (\$)	Propane (\$)	Remote Hot Water (\$)	Remote Steam (\$)
January	0	0	0	0	0	0
February	0	0	0	0	0	0
March	0	0	0	0	0	0
April	0	0	0	0	0	0
May	0	0	0	0	0	0
June	0	0	0	0	0	0
July	0	0	0	0	0	0
August	0	0	0	0	0	0
September	0	0	0	0	0	0
October	0	0	0	0	0	0
November	0	0	0	0	0	0
December	0	0	0	0	0	0
Total	0	0	0	0	0	0

Use Profiles - Electric - a) Alternative REF

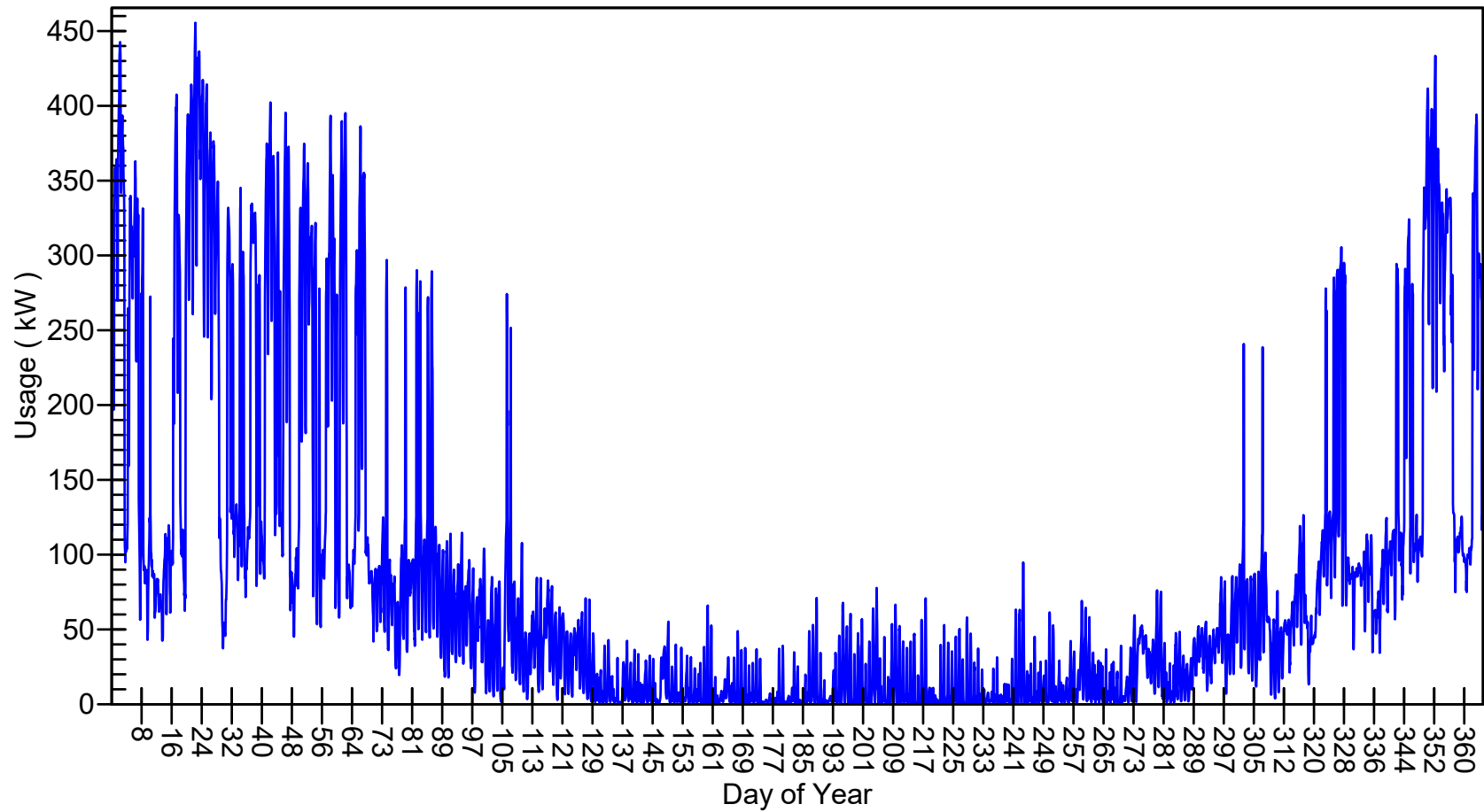
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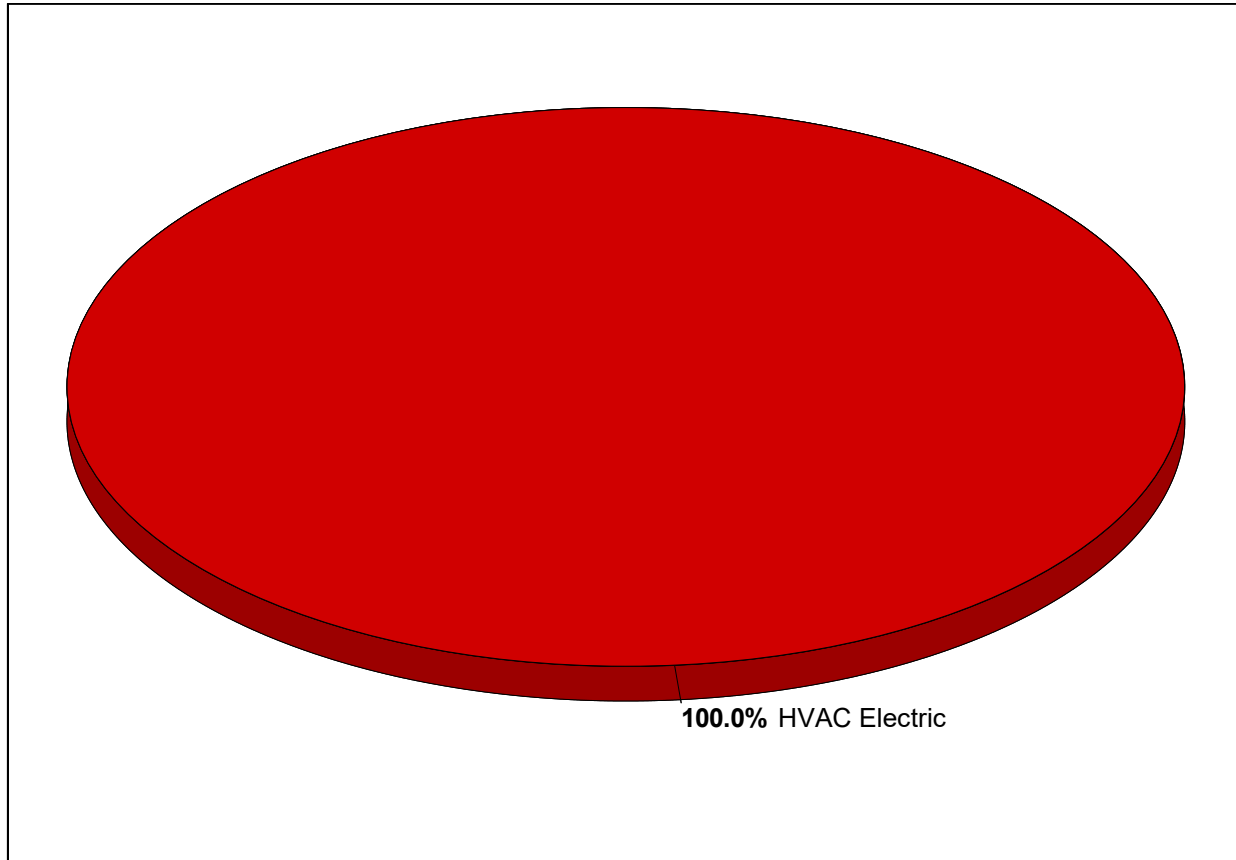
Electric Use Profiles - Sunday, January 1 (day 1) thru Sunday, December 31 (day 365)



Annual Energy Costs - b) Alternative CPT

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1. Annual Costs

Component	Annual Cost (\$)	(\$/sqft)	Percent of Total (%)
HVAC Components			
Electric	38,729	0.303	100.0
Natural Gas	0	0.000	0.0
Fuel Oil	0	0.000	0.0
Propane	0	0.000	0.0
Remote Hot Water	0	0.000	0.0
Remote Steam	0	0.000	0.0
Remote Chilled Water	0	0.000	0.0
HVAC Sub-Total	38,729	0.303	100.0
Non-HVAC Components			
Electric	0	0.000	0.0
Natural Gas	0	0.000	0.0
Fuel Oil	0	0.000	0.0
Propane	0	0.000	0.0
Remote Hot Water	0	0.000	0.0
Remote Steam	0	0.000	0.0
Non-HVAC Sub-Total	0	0.000	0.0
Grand Total	38,729	0.303	100.0

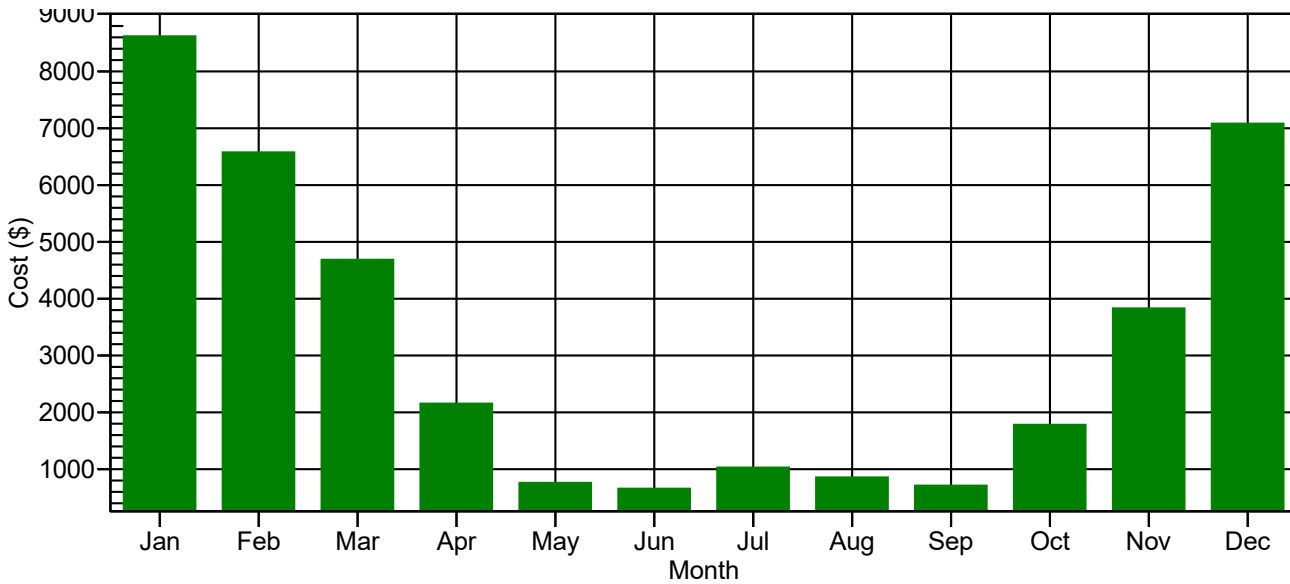
Note: Cost per unit floor area is based on the gross building floor area.

Gross Floor Area **127,987.6** sqft
Modeled Floor Area **127,987.6** sqft

Monthly Energy Costs - b) Alternative CPT

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...
Prepared by: Groupe CMI

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1. HVAC Costs

Month	Electric (\$)	Natural Gas (\$)	Fuel Oil (\$)	Propane (\$)	Remote Hot Water (\$)	Remote Steam (\$)	Remote Chilled Water (\$)
January	8,618	0	0	0	0	0	0
February	6,576	0	0	0	0	0	0
March	4,685	0	0	0	0	0	0
April	2,153	0	0	0	0	0	0
May	758	0	0	0	0	0	0
June	656	0	0	0	0	0	0
July	1,027	0	0	0	0	0	0
August	855	0	0	0	0	0	0
September	709	0	0	0	0	0	0
October	1,781	0	0	0	0	0	0
November	3,830	0	0	0	0	0	0
December	7,080	0	0	0	0	0	0
Total	38,729	0	0	0	0	0	0

2. Non-HVAC Costs

Month	Electric (\$)	Natural Gas (\$)	Fuel Oil (\$)	Propane (\$)	Remote Hot Water (\$)	Remote Steam (\$)
January	0	0	0	0	0	0
February	0	0	0	0	0	0
March	0	0	0	0	0	0
April	0	0	0	0	0	0
May	0	0	0	0	0	0
June	0	0	0	0	0	0
July	0	0	0	0	0	0
August	0	0	0	0	0	0
September	0	0	0	0	0	0
October	0	0	0	0	0	0
November	0	0	0	0	0	0
December	0	0	0	0	0	0
Total	0	0	0	0	0	0

Use Profiles - Electric - b) Alternative CPT

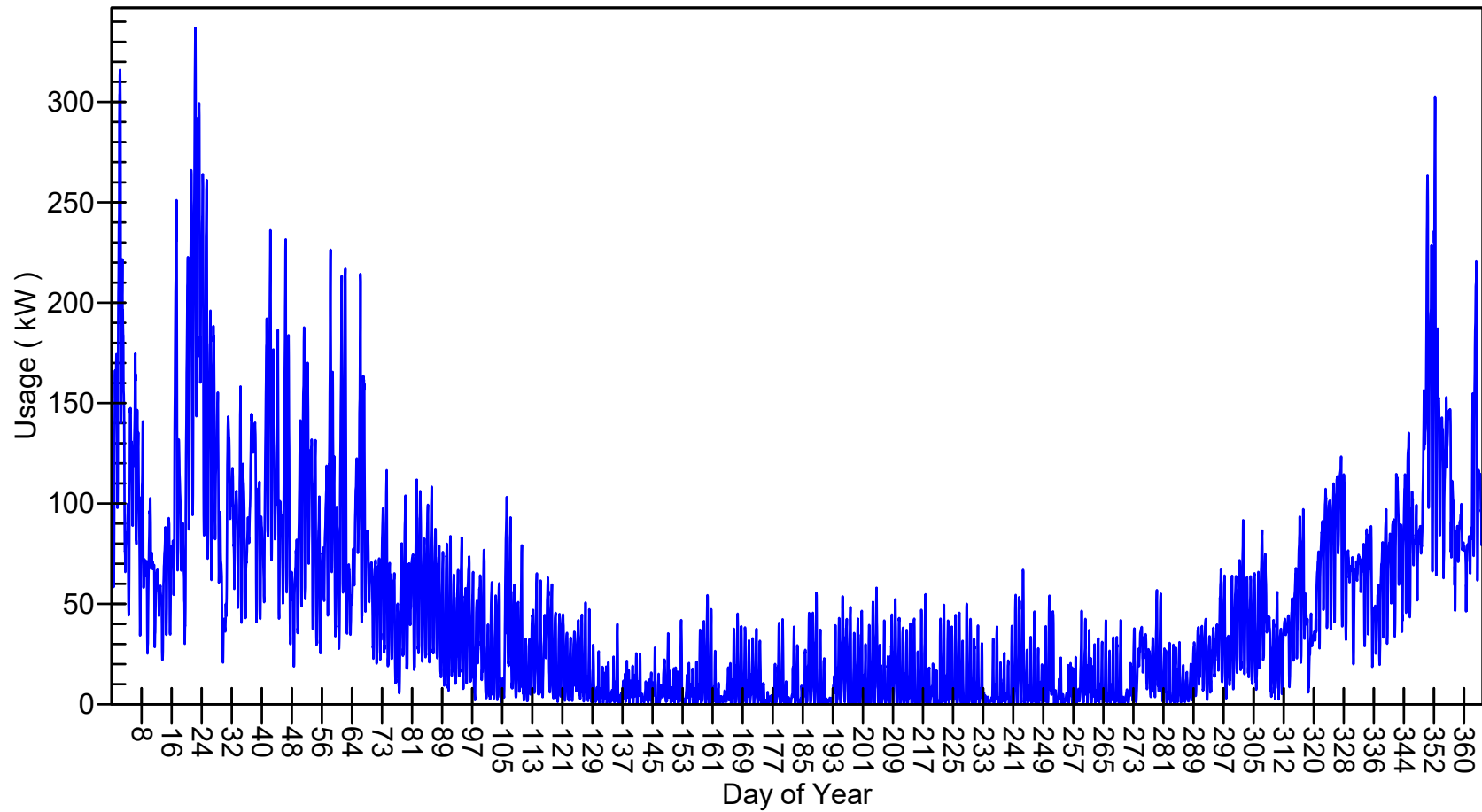
Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

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03/02/2026

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Electric Use Profiles - Sunday, January 1 (day 1) thru Sunday, December 31 (day 365)



Monthly Simulation Results for 01 2E 201 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacinthe

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1278	137	2880	844	0
February	0	0	1273	143	2319	679	0
March	0	0	1784	196	995	292	0
April	0	0	1536	157	51	15	0
May	133	11	497	45	0	0	0
June	527	45	38	3	0	0	0
July	1181	100	4	0	0	0	0
August	1071	88	0	0	0	0	0
September	590	48	206	19	0	0	0
October	93	7	1269	120	7	2	0
November	0	0	2151	226	338	99	0
December	0	0	1971	217	1964	575	0
Total	3596	299	12007	1264	8553	2507	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 02 2E 202 à 204 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	2847	297	6447	1890	0
February	0	0	2858	312	5174	1516	0
March	0	0	4125	440	2223	652	0
April	0	0	3569	355	112	33	0
May	152	13	1202	106	0	0	0
June	895	77	98	8	0	0	0
July	2192	184	9	1	0	0	0
August	1933	158	2	0	0	0	0
September	960	78	507	45	0	0	0
October	125	10	2915	270	14	4	0
November	0	0	4843	495	734	215	0
December	0	0	4363	466	4373	1282	0
Total	6259	520	27339	2796	19079	5591	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 03 2E 205 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1197	129	2683	786	0
February	0	0	1189	134	2164	634	0
March	0	0	1671	184	927	272	0
April	0	0	1439	148	48	14	0
May	132	11	466	42	0	0	0
June	508	44	34	3	0	0	0
July	1135	96	3	0	0	0	0
August	1036	85	0	0	0	0	0
September	580	47	192	18	0	0	0
October	95	8	1190	113	6	2	0
November	0	0	2017	213	315	92	0
December	0	0	1844	204	1831	537	0
Total	3487	290	11241	1187	7973	2337	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 04 2E 207 et 206 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1621	170	3693	1082	0
February	0	0	1637	180	2966	869	0
March	0	0	2410	258	1278	374	0
April	0	0	2084	207	63	19	0
May	38	3	705	62	0	0	0
June	406	36	57	5	0	0	0
July	1102	95	4	0	0	0	0
August	919	77	1	0	0	0	0
September	395	33	289	26	0	0	0
October	42	4	1684	156	8	2	0
November	0	0	2770	285	413	121	0
December	0	0	2472	267	2495	731	0
Total	2903	248	15735	1617	10916	3199	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 05 2E 208 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1291	134	2900	850	0
February	0	0	1285	139	2333	684	0
March	0	0	1802	192	999	293	0
April	0	0	1539	154	51	15	0
May	103	8	479	43	0	0	0
June	476	40	29	3	0	0	0
July	1132	93	2	0	0	0	0
August	1012	81	0	0	0	0	0
September	529	42	186	17	0	0	0
October	77	6	1266	118	6	2	0
November	0	0	2168	221	338	99	0
December	0	0	1985	211	1977	579	0
Total	3328	270	12031	1231	8604	2522	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 06 2E 209 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1617	164	3834	1124	0
February	0	0	1644	174	3047	893	0
March	0	0	2690	280	1286	377	0
April	0	0	2197	214	54	16	0
May	8	1	702	61	0	0	0
June	242	21	68	6	0	0	0
July	708	59	10	1	0	0	0
August	385	32	8	1	0	0	0
September	78	6	389	34	0	0	0
October	0	0	1846	168	7	2	0
November	0	0	2889	288	393	115	0
December	0	0	2430	252	2546	746	0
Total	1420	119	16490	1643	11167	3273	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 07 2E 210 à 214 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	5301	542	12447	3648	0
February	0	0	5404	576	9896	2900	0
March	0	0	8877	924	4137	1213	0
April	0	0	7121	692	154	45	0
May	0	0	2223	192	0	0	0
June	512	44	176	15	0	0	0
July	2240	185	18	2	0	0	0
August	1057	86	6	0	0	0	0
September	157	13	1073	94	0	0	0
October	0	0	5958	541	24	7	0
November	0	0	9426	943	1277	374	0
December	0	0	7958	831	8276	2425	0
Total	3966	329	53542	5352	36211	10612	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 08 2E 215 et 216 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	2105	215	4934	1446	0
February	0	0	2151	229	3940	1155	0
March	0	0	3577	372	1674	491	0
April	0	0	2949	286	68	20	0
May	0	0	920	80	0	0	0
June	132	11	71	6	0	0	0
July	668	56	6	1	0	0	0
August	311	26	2	0	0	0	0
September	41	3	454	40	0	0	0
October	0	0	2393	217	10	3	0
November	0	0	3744	374	506	148	0
December	0	0	3154	329	3278	961	0
Total	1152	97	21525	2148	14409	4223	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 09 2E 217 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1751	177	4174	1223	0
February	0	0	1759	185	3339	979	0
March	0	0	2943	304	1388	407	0
April	0	0	2362	229	52	15	0
May	0	0	743	65	0	0	0
June	180	15	63	5	0	0	0
July	714	58	7	1	0	0	0
August	348	28	3	0	0	0	0
September	55	5	371	33	0	0	0
October	0	0	1979	180	9	3	0
November	0	0	3122	310	438	128	0
December	0	0	2624	270	2789	818	0
Total	1297	106	17727	1760	12188	3572	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 10 2E 218 et 219 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1742	175	4076	1194	0
February	0	0	1782	186	3250	952	0
March	0	0	2957	302	1367	401	0
April	0	0	2425	231	54	16	0
May	0	0	770	66	0	0	0
June	98	9	58	5	0	0	0
July	548	46	5	0	0	0	0
August	248	20	1	0	0	0	0
September	34	3	353	31	0	0	0
October	0	0	1978	177	8	2	0
November	0	0	3099	305	417	122	0
December	0	0	2609	268	2709	794	0
Total	928	78	17779	1745	11880	3482	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 11 2E 220 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1339	137	3149	923	0
February	0	0	1360	145	2494	731	0
March	0	0	2202	230	1033	303	0
April	0	0	1716	168	36	10	0
May	0	0	516	45	0	0	0
June	157	13	35	3	0	0	0
July	653	53	3	0	0	0	0
August	304	25	0	0	0	0	0
September	42	3	236	21	0	0	0
October	0	0	1469	134	6	2	0
November	0	0	2370	238	323	95	0
December	0	0	2013	211	2096	614	0
Total	1156	95	13258	1333	9137	2678	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 12 2E 221 à 225 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	5303	542	12450	3649	0
February	0	0	5406	576	9890	2898	0
March	0	0	8860	922	4123	1208	0
April	0	0	7077	688	151	44	0
May	0	0	2208	191	0	0	0
June	533	46	172	15	0	0	0
July	2320	192	17	1	0	0	0
August	1101	90	5	0	0	0	0
September	163	13	1046	92	0	0	0
October	0	0	5935	539	23	7	0
November	0	0	9422	943	1276	374	0
December	0	0	7964	832	8282	2427	0
Total	4117	341	53415	5341	36195	10608	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 13 2E 226 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	873	88	2043	599	0
February	0	0	893	93	1628	477	0
March	0	0	1479	151	685	201	0
April	0	0	1210	115	27	8	0
May	0	0	381	33	0	0	0
June	49	4	28	2	0	0	0
July	280	23	2	0	0	0	0
August	125	10	0	0	0	0	0
September	17	1	173	15	0	0	0
October	0	0	989	89	4	1	0
November	0	0	1553	153	209	61	0
December	0	0	1308	134	1358	398	0
Total	470	39	8888	873	5954	1745	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 14 2E 227 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1820	184	4359	1278	0
February	0	0	1809	190	3514	1030	0
March	0	0	3050	315	1461	428	0
April	0	0	2463	239	58	17	0
May	1	0	794	69	0	0	0
June	203	17	71	6	0	0	0
July	761	63	9	1	0	0	0
August	392	32	5	0	0	0	0
September	69	6	397	35	0	0	0
October	0	0	2053	186	11	3	0
November	0	0	3229	320	474	139	0
December	0	0	2719	280	2936	861	0
Total	1426	117	18420	1825	12814	3755	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 15 2E 228 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	856	87	1922	563	0
February	0	0	882	94	1532	449	0
March	0	0	1357	141	621	182	0
April	0	0	1073	104	22	7	0
May	1	0	363	31	0	0	0
June	90	8	26	2	0	0	0
July	422	35	2	0	0	0	0
August	303	24	0	0	0	0	0
September	64	5	136	12	0	0	0
October	0	0	860	78	3	1	0
November	0	0	1438	144	198	58	0
December	0	0	1290	135	1304	382	0
Total	880	72	8284	829	5603	1642	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 16 2E 229 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1869	196	4242	1243	0
February	0	0	1913	210	3370	988	0
March	0	0	2814	303	1385	406	0
April	0	0	2235	224	55	16	0
May	17	1	767	68	0	0	0
June	366	31	68	6	0	0	0
July	1101	92	8	1	0	0	0
August	872	71	2	0	0	0	0
September	314	26	312	28	0	0	0
October	19	2	1836	171	7	2	0
November	0	0	3120	322	449	132	0
December	0	0	2840	305	2880	844	0
Total	2689	223	17784	1833	12387	3630	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 17 2E 230 à 234 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	4862	509	11015	3228	0
February	0	0	4860	532	8824	2586	0
March	0	0	6991	749	3778	1107	0
April	0	0	6034	603	190	56	0
May	360	29	2022	179	0	0	0
June	1689	145	164	14	0	0	0
July	3939	330	15	1	0	0	0
August	3525	286	3	0	0	0	0
September	1833	147	858	77	0	0	0
October	257	21	4984	464	24	7	0
November	0	0	8303	853	1263	370	0
December	0	0	7460	800	7481	2192	0
Total	11603	958	46555	4783	32576	9547	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 18 2E 235 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1194	128	2676	784	0
February	0	0	1186	134	2158	632	0
March	0	0	1667	184	925	271	0
April	1	0	1437	147	47	14	0
May	133	11	467	42	0	0	0
June	503	43	34	3	0	0	0
July	1126	95	3	0	0	0	0
August	1035	85	0	0	0	0	0
September	582	47	192	18	0	0	0
October	96	8	1188	113	6	2	0
November	1	0	2012	212	315	92	0
December	0	0	1839	204	1827	535	0
Total	3475	289	11219	1185	7953	2331	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 19 2E 236 et 237 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1617	166	3677	1078	0
February	0	0	1633	176	2955	866	0
March	0	0	2414	254	1273	373	0
April	0	0	2099	206	63	19	0
May	27	2	721	63	0	0	0
June	317	28	57	5	0	0	0
July	947	80	4	0	0	0	0
August	839	69	1	0	0	0	0
September	364	30	280	25	0	0	0
October	38	3	1678	154	8	2	0
November	0	0	2760	279	411	120	0
December	0	0	2463	260	2485	728	0
Total	2532	213	15728	1587	10871	3186	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 20 2E salle commune 257 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	462	50	1036	304	0
February	0	0	476	54	823	241	0
March	0	0	724	79	331	97	0
April	0	0	574	58	11	3	0
May	4	0	209	18	0	0	0
June	101	9	21	2	0	0	0
July	311	26	3	0	0	0	0
August	235	19	1	0	0	0	0
September	77	6	91	8	0	0	0
October	4	0	468	44	1	0	0
November	0	0	774	81	107	31	0
December	0	0	699	77	705	207	0
Total	732	61	4500	472	3015	884	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 21 3E 301 à 308 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	8218	881	18549	5436	0
February	0	0	8235	927	14903	4368	0
March	0	0	11833	1297	6405	1877	0
April	0	0	10222	1040	323	95	0
May	655	54	3322	297	0	0	0
June	3228	281	237	21	0	0	0
July	7468	637	18	2	0	0	0
August	6591	548	3	0	0	0	0
September	3441	281	1416	129	0	0	0
October	498	40	8395	792	41	12	0
November	0	0	13981	1468	2132	625	0
December	0	0	12622	1391	12609	3695	0
Total	21883	1841	78503	8244	54963	16108	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 22 3E 309 à 328 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	22906	2347	53845	15780	0
February	0	0	23366	2496	42805	12545	0
March	0	0	38352	4004	17906	5248	0
April	0	0	30798	3003	669	196	0
May	0	0	9452	821	0	0	0
June	2568	220	706	60	0	0	0
July	10317	853	63	5	0	0	0
August	5044	411	23	2	0	0	0
September	768	63	4626	407	0	0	0
October	0	0	25782	2348	101	30	0
November	0	0	40774	4091	5528	1620	0
December	0	0	34425	3604	35830	10501	0
Total	18697	1547	231271	23188	156683	45919	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 23 3E 329 et 330 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	2719	279	6152	1803	0
February	0	0	2793	298	4891	1433	0
March	0	0	4170	438	1998	585	0
April	0	0	3295	324	76	22	0
May	17	1	1104	97	0	0	0
June	473	40	85	7	0	0	0
July	1547	128	8	1	0	0	0
August	1190	95	1	0	0	0	0
September	356	29	443	40	0	0	0
October	9	1	2697	247	9	3	0
November	0	0	4560	460	644	189	0
December	0	0	4126	432	4177	1224	0
Total	3592	294	26000	2623	17946	5260	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 24 3E 331 à 338 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	7645	799	17304	5071	0
February	0	0	7655	838	13868	4064	0
March	0	0	11028	1180	5945	1742	0
April	0	0	9536	952	299	88	0
May	508	42	3128	277	0	0	0
June	2628	226	229	20	0	0	0
July	6252	523	18	2	0	0	0
August	5591	454	4	0	0	0	0
September	2850	229	1327	120	0	0	0
October	388	31	7843	729	38	11	0
November	0	0	13055	1340	1982	581	0
December	0	0	11737	1258	11762	3447	0
Total	18217	1505	73204	7514	51199	15005	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 25 3E salle commune 357 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	461	50	1036	304	0
February	0	0	476	54	823	241	0
March	0	0	723	79	332	97	0
April	0	0	574	58	11	3	0
May	5	0	204	18	0	0	0
June	110	9	19	2	0	0	0
July	326	28	2	0	0	0	0
August	245	20	1	0	0	0	0
September	80	7	89	8	0	0	0
October	4	0	468	44	1	0	0
November	0	0	774	81	108	32	0
December	0	0	699	77	705	207	0
Total	771	64	4491	471	3016	884	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 26 4E 401 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1464	145	3677	1078	0
February	0	0	1353	141	3079	902	0
March	0	0	2145	218	1347	395	0
April	0	0	1937	186	98	29	0
May	175	14	693	60	0	0	0
June	659	54	77	7	0	0	0
July	1343	107	14	1	0	0	0
August	1163	89	9	1	0	0	0
September	641	49	357	31	0	0	0
October	94	7	1627	147	19	5	0
November	0	0	2548	249	547	160	0
December	0	0	2129	217	2714	795	0
Total	4075	320	14353	1402	11481	3365	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 27 4E 402 à 404 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	3469	358	7869	2306	0
February	0	0	3486	375	6308	1849	0
March	0	0	5108	539	2723	798	0
April	0	0	4470	441	137	40	0
May	230	19	1619	142	0	0	0
June	1194	102	197	17	0	0	0
July	2577	216	38	3	0	0	0
August	2205	179	31	3	0	0	0
September	1084	88	848	75	0	0	0
October	128	10	3685	339	18	5	0
November	0	0	5950	603	886	260	0
December	0	0	5292	558	5332	1563	0
Total	7418	614	34192	3452	23273	6821	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 28 4E 405 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1486	158	3340	979	0
February	0	0	1481	165	2680	786	0
March	0	0	2116	230	1157	339	0
April	0	0	1847	187	59	17	0
May	170	14	649	58	0	0	0
June	638	55	71	6	0	0	0
July	1298	109	14	1	0	0	0
August	1147	94	8	1	0	0	0
September	625	50	335	30	0	0	0
October	92	7	1540	145	8	2	0
November	0	0	2526	263	387	113	0
December	0	0	2278	249	2275	667	0
Total	3972	329	14350	1494	9907	2903	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 29 4E 406 et 407 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1974	203	4488	1315	0
February	0	0	1992	213	3602	1056	0
March	0	0	2975	312	1557	456	0
April	0	0	2596	254	78	23	0
May	73	6	940	82	0	0	0
June	571	50	112	9	0	0	0
July	1329	112	20	2	0	0	0
August	1081	89	15	1	0	0	0
September	469	38	479	42	0	0	0
October	45	4	2119	194	10	3	0
November	0	0	3397	342	498	146	0
December	0	0	2997	315	3032	888	0
Total	3568	299	19615	1969	13263	3887	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 30 4E 408 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1604	170	3615	1059	0
February	0	0	1601	177	2895	848	0
March	0	0	2289	248	1250	366	0
April	0	0	1989	201	64	19	0
May	147	12	682	61	0	0	0
June	639	55	70	6	0	0	0
July	1345	113	12	1	0	0	0
August	1162	95	6	0	0	0	0
September	596	48	339	31	0	0	0
October	79	6	1652	155	8	2	0
November	0	0	2724	283	415	122	0
December	0	0	2455	266	2460	721	0
Total	3967	329	15422	1600	10706	3138	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 31 4E 409 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1860	187	4481	1313	0
February	0	0	1840	193	3619	1061	0
March	0	0	3128	322	1522	446	0
April	0	0	2608	252	70	21	0
May	22	2	877	76	0	0	0
June	355	30	115	10	0	0	0
July	863	72	23	2	0	0	0
August	493	40	36	3	0	0	0
September	122	10	550	48	0	0	0
October	0	0	2193	198	13	4	0
November	0	0	3345	330	495	145	0
December	0	0	2771	284	3023	886	0
Total	1856	155	19348	1907	13224	3876	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 32 4E 410 à 417 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	10246	1049	23875	6997	0
February	0	0	10421	1112	18993	5566	0
March	0	0	17093	1785	7988	2341	0
April	0	0	13948	1361	309	91	0
May	29	2	4456	388	0	0	0
June	1533	132	466	39	0	0	0
July	4648	387	86	7	0	0	0
August	2415	198	86	7	0	0	0
September	509	42	2540	222	0	0	0
October	0	0	11748	1070	47	14	0
November	0	0	18268	1831	2465	723	0
December	0	0	15357	1606	15915	4664	0
Total	9133	762	104713	10476	69593	20396	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 33 4E 418 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	2003	200	4986	1461	0
February	0	0	1930	202	4086	1198	0
March	0	0	3417	349	1712	502	0
April	0	0	2824	272	83	24	0
May	9	1	909	79	0	0	0
June	342	29	101	9	0	0	0
July	947	78	20	2	0	0	0
August	488	40	22	2	0	0	0
September	105	9	539	47	0	0	0
October	0	0	2390	215	19	5	0
November	0	0	3615	355	615	180	0
December	0	0	2934	300	3460	1014	0
Total	1891	156	20704	2031	14963	4385	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 34 4E 419 et 420 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	2110	215	4902	1437	0
February	0	0	2152	229	3909	1145	0
March	0	0	3559	369	1653	484	0
April	0	0	2959	286	68	20	0
May	2	0	962	83	0	0	0
June	242	21	97	8	0	0	0
July	814	69	16	1	0	0	0
August	413	34	13	1	0	0	0
September	81	7	527	46	0	0	0
October	0	0	2441	221	10	3	0
November	0	0	3764	375	505	148	0
December	0	0	3156	329	3267	958	0
Total	1552	131	21756	2164	14313	4195	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 35 4E 421 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1639	166	3834	1124	0
February	0	0	1656	175	3048	893	0
March	0	0	2702	281	1271	373	0
April	0	0	2163	211	47	14	0
May	4	0	667	58	0	0	0
June	261	22	62	5	0	0	0
July	803	66	11	1	0	0	0
August	403	33	7	1	0	0	0
September	79	6	367	32	0	0	0
October	0	0	1851	168	7	2	0
November	0	0	2917	291	397	116	0
December	0	0	2461	255	2559	750	0
Total	1551	128	16503	1644	11164	3272	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 36 4E 422 à 426 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	6394	654	14899	4367	0
February	0	0	6503	694	11845	3472	0
March	0	0	10652	1112	4974	1458	0
April	0	0	8676	847	192	56	0
May	18	1	2771	241	0	0	0
June	957	83	287	24	0	0	0
July	2915	243	52	4	0	0	0
August	1514	124	50	4	0	0	0
September	316	26	1561	137	0	0	0
October	0	0	7316	666	29	8	0
November	0	0	11396	1142	1538	451	0
December	0	0	9585	1002	9934	2911	0
Total	5721	477	65244	6529	43411	12722	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 37 4E 427 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1064	108	2470	724	0
February	0	0	1084	115	1969	577	0
March	0	0	1790	186	832	244	0
April	0	0	1485	144	34	10	0
May	1	0	478	41	0	0	0
June	120	11	47	4	0	0	0
July	414	35	7	1	0	0	0
August	207	17	5	0	0	0	0
September	40	3	259	23	0	0	0
October	0	0	1227	111	5	1	0
November	0	0	1896	189	255	75	0
December	0	0	1591	166	1647	483	0
Total	782	66	10934	1089	7213	2114	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 38 4E 428 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	2060	205	5232	1533	0
February	0	0	1960	205	4324	1267	0
March	0	0	3521	359	1832	537	0
April	0	0	2953	284	98	29	0
May	9	1	989	86	0	0	0
June	333	28	119	10	0	0	0
July	939	78	23	2	0	0	0
August	514	42	29	2	0	0	0
September	120	10	574	50	0	0	0
October	0	0	2479	223	23	7	0
November	0	0	3716	364	684	201	0
December	0	0	2980	304	3700	1084	0
Total	1916	158	21405	2094	15893	4658	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 39 4E 429 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1040	106	2332	683	0
February	0	0	1067	114	1858	545	0
March	0	0	1656	173	764	224	0
April	0	0	1333	130	29	9	0
May	4	0	464	40	0	0	0
June	170	15	49	4	0	0	0
July	545	46	8	1	0	0	0
August	374	30	4	0	0	0	0
September	91	7	211	19	0	0	0
October	0	0	1080	98	4	1	0
November	0	0	1763	177	242	71	0
December	0	0	1563	163	1581	463	0
Total	1184	99	10239	1025	6810	1996	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 40 4E 430 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	2264	235	5149	1509	0
February	0	0	2307	249	4101	1202	0
March	0	0	3475	370	1702	499	0
April	0	0	2818	280	70	21	0
May	43	4	997	88	0	0	0
June	531	46	125	11	0	0	0
July	1323	111	25	2	0	0	0
August	1020	83	22	2	0	0	0
September	379	31	485	43	0	0	0
October	22	2	2310	214	9	3	0
November	0	0	3826	390	546	160	0
December	0	0	3429	363	3489	1023	0
Total	3317	276	22082	2247	15066	4416	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 41 4E 431 à 435 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	5894	627	13330	3907	0
February	0	0	5897	659	10656	3123	0
March	0	0	8578	933	4595	1347	0
April	0	0	7517	760	233	68	0
May	571	47	2720	241	0	0	0
June	2478	215	326	28	0	0	0
July	5107	436	63	5	0	0	0
August	4427	368	50	4	0	0	0
September	2333	191	1431	128	0	0	0
October	314	25	6238	585	30	9	0
November	0	0	10105	1054	1513	444	0
December	0	0	9009	985	9059	2655	0
Total	15231	1282	57828	6010	39416	11552	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 42 4E 436 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1485	158	3337	978	0
February	0	0	1480	165	2678	785	0
March	0	0	2114	230	1157	339	0
April	0	0	1846	187	59	17	0
May	170	14	649	58	0	0	0
June	633	54	71	6	0	0	0
July	1291	109	14	1	0	0	0
August	1147	94	8	1	0	0	0
September	625	50	334	30	0	0	0
October	93	7	1538	145	8	2	0
November	0	0	2523	263	387	113	0
December	0	0	2276	248	2273	666	0
Total	3960	328	14338	1493	9899	2901	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 43 4E 437 et 438 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1961	201	4452	1305	0
February	0	0	1978	212	3574	1047	0
March	0	0	2963	311	1545	453	0
April	0	0	2596	254	77	23	0
May	60	5	945	82	0	0	0
June	528	46	110	9	0	0	0
July	1256	106	19	2	0	0	0
August	1030	85	13	1	0	0	0
September	451	37	469	41	0	0	0
October	43	4	2104	192	10	3	0
November	0	0	3373	340	494	145	0
December	0	0	2975	313	3008	881	0
Total	3368	283	19506	1959	13160	3857	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 44 4E salle commune 457 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	542	58	1218	357	0
February	0	0	557	63	968	284	0
March	0	0	854	94	395	116	0
April	0	0	687	70	15	4	0
May	7	1	253	22	0	0	0
June	132	11	33	3	0	0	0
July	351	30	7	1	0	0	0
August	254	21	6	0	0	0	0
September	81	7	126	11	0	0	0
October	3	0	562	53	2	1	0
November	0	0	915	96	127	37	0
December	0	0	818	90	827	242	0
Total	828	70	5359	562	3552	1041	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 45 RDC 101 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1430	152	3011	882	0
February	0	0	1401	156	2455	720	0
March	0	0	1995	217	1061	311	0
April	1	0	1790	181	56	16	0
May	113	9	689	61	0	0	0
June	448	39	89	8	0	0	0
July	1009	86	18	2	0	0	0
August	988	81	6	0	0	0	0
September	609	49	250	23	0	0	0
October	110	9	1304	123	7	2	0
November	0	0	2213	232	343	101	0
December	0	0	2058	226	1997	585	0
Total	3279	273	13242	1381	8929	2617	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 46 RDC 102 et 103 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1873	191	4045	1185	0
February	0	0	1863	199	3279	961	0
March	0	0	2788	291	1423	417	0
April	0	0	2506	244	72	21	0
May	22	2	999	86	0	0	0
June	288	26	147	12	0	0	0
July	844	72	29	2	0	0	0
August	776	65	14	1	0	0	0
September	367	30	382	34	0	0	0
October	43	4	1831	168	9	3	0
November	0	0	3000	302	443	130	0
December	0	0	2701	284	2669	782	0
Total	2340	198	18133	1814	11940	3499	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 47 RDC 104 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1555	164	3276	960	0
February	0	0	1527	169	2668	782	0
March	0	0	2184	237	1153	338	0
April	0	0	1953	197	60	18	0
May	80	7	744	66	0	0	0
June	411	36	90	8	0	0	0
July	990	84	17	1	0	0	0
August	968	80	3	0	0	0	0
September	565	45	247	23	0	0	0
October	91	7	1396	132	7	2	0
November	0	0	2393	250	370	108	0
December	0	0	2227	243	2165	634	0
Total	3105	259	14337	1490	9699	2843	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 48 RDC 105 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1902	191	4339	1272	0
February	0	0	1868	195	3560	1043	0
March	0	0	3231	331	1495	438	0
April	0	0	2762	265	67	20	0
May	2	0	1023	88	0	0	0
June	183	16	155	13	0	0	0
July	596	50	29	2	0	0	0
August	323	27	27	2	0	0	0
September	71	6	485	42	0	0	0
October	0	0	2031	184	9	3	0
November	0	0	3191	316	438	128	0
December	0	0	2697	278	2836	831	0
Total	1176	99	19400	1909	12745	3735	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 49 RDC 106 à 109 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	5068	517	11307	3314	0
February	0	0	5104	544	9078	2661	0
March	0	0	8520	886	3797	1113	0
April	0	0	7116	689	139	41	0
May	0	0	2659	229	0	0	0
June	239	21	369	31	0	0	0
July	1328	111	68	6	0	0	0
August	569	47	55	5	0	0	0
September	111	9	1230	107	0	0	0
October	0	0	5501	501	21	6	0
November	0	0	8556	858	1132	332	0
December	0	0	7232	758	7370	2160	0
Total	2249	188	51477	5131	32844	9626	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 50 RDC 110 et 111 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	2037	207	4537	1330	0
February	0	0	2056	218	3648	1069	0
March	0	0	3465	358	1538	451	0
April	0	0	2958	284	61	18	0
May	0	0	1122	96	0	0	0
June	32	3	150	13	0	0	0
July	311	27	25	2	0	0	0
August	120	10	17	1	0	0	0
September	23	2	500	43	0	0	0
October	0	0	2245	203	8	2	0
November	0	0	3447	343	454	133	0
December	0	0	2901	302	2955	866	0
Total	487	41	20923	2069	13201	3869	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 51 RDC 112 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1608	163	3574	1048	0
February	0	0	1613	171	2866	840	0
March	0	0	2676	277	1193	350	0
April	0	0	2208	214	42	12	0
May	0	0	812	70	0	0	0
June	78	7	101	8	0	0	0
July	444	37	17	1	0	0	0
August	185	15	8	1	0	0	0
September	34	3	348	31	0	0	0
October	0	0	1693	154	6	2	0
November	0	0	2679	268	356	104	0
December	0	0	2281	238	2323	681	0
Total	741	62	16044	1596	10362	3037	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 52 RDC 113 à 117 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	6352	648	14163	4151	0
February	0	0	6396	681	11366	3331	0
March	0	0	10669	1110	4751	1392	0
April	0	0	8907	862	174	51	0
May	0	0	3332	287	0	0	0
June	289	25	455	38	0	0	0
July	1625	136	81	7	0	0	0
August	699	58	63	5	0	0	0
September	133	11	1515	132	0	0	0
October	0	0	6858	624	25	7	0
November	0	0	10699	1074	1416	415	0
December	0	0	9057	949	9230	2705	0
Total	2746	230	64383	6417	41125	12053	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 53 RDC 118 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1014	103	2258	662	0
February	0	0	1023	108	1816	532	0
March	0	0	1725	178	766	225	0
April	0	0	1474	141	30	9	0
May	0	0	563	48	0	0	0
June	14	1	76	6	0	0	0
July	149	13	12	1	0	0	0
August	55	5	8	1	0	0	0
September	11	1	248	21	0	0	0
October	0	0	1117	101	4	1	0
November	0	0	1715	171	226	66	0
December	0	0	1444	150	1470	431	0
Total	229	19	10419	1030	6571	1926	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 54 RDC 119 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	2106	209	5035	1476	0
February	0	0	1982	207	4237	1242	0
March	0	0	3632	368	1796	526	0
April	0	0	3138	299	93	27	0
May	0	0	1212	104	0	0	0
June	117	10	182	15	0	0	0
July	584	49	33	3	0	0	0
August	303	25	24	2	0	0	0
September	62	5	506	44	0	0	0
October	0	0	2275	206	15	4	0
November	0	0	3554	350	568	167	0
December	0	0	2935	300	3395	995	0
Total	1066	89	21580	2106	15138	4437	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 55 RDC 120 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	994	101	2111	619	0
February	0	0	1009	107	1698	498	0
March	0	0	1582	164	692	203	0
April	0	0	1315	127	25	7	0
May	0	0	533	46	0	0	0
June	34	3	73	6	0	0	0
July	270	23	13	1	0	0	0
August	221	18	4	0	0	0	0
September	52	4	179	16	0	0	0
October	0	0	943	86	3	1	0
November	0	0	1566	157	212	62	0
December	0	0	1414	148	1397	410	0
Total	578	48	9625	959	6139	1799	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 56 RDC 121 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	2101	209	5017	1470	0
February	0	0	1943	203	4284	1256	0
March	0	0	3314	337	1819	533	0
April	0	0	2882	275	116	34	0
May	9	1	1167	101	0	0	0
June	273	24	172	15	0	0	0
July	950	79	34	3	0	0	0
August	848	68	11	1	0	0	0
September	359	29	362	32	0	0	0
October	28	2	1987	180	16	5	0
November	0	0	3348	330	615	180	0
December	0	0	2880	295	3538	1037	0
Total	2468	202	20201	1980	15406	4515	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 57 RDC 122 à 126 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	5759	612	12345	3618	0
February	0	0	5676	634	9995	2929	0
March	0	0	8261	898	4315	1265	0
April	0	0	7407	747	221	65	0
May	378	31	2922	258	0	0	0
June	1696	149	417	36	0	0	0
July	3796	328	87	7	0	0	0
August	3658	306	39	3	0	0	0
September	2189	179	1142	103	0	0	0
October	355	29	5485	516	27	8	0
November	0	0	9129	955	1384	406	0
December	0	0	8321	913	8166	2393	0
Total	12072	1021	54643	5683	36451	10683	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 58 RDC 127 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1425	151	3002	880	0
February	0	0	1395	156	2447	717	0
March	0	0	1987	216	1056	310	0
April	1	0	1783	180	55	16	0
May	116	9	687	61	0	0	0
June	436	38	89	8	0	0	0
July	971	83	19	2	0	0	0
August	966	80	6	0	0	0	0
September	607	49	246	22	0	0	0
October	113	9	1293	122	7	2	0
November	1	0	2201	231	343	100	0
December	0	0	2049	225	1991	583	0
Total	3211	267	13180	1376	8901	2609	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 59 RDC 128 et 129 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1870	191	4034	1182	0
February	0	0	1862	199	3270	958	0
March	0	0	2807	293	1419	416	0
April	0	0	2537	246	72	21	0
May	12	1	1046	90	0	0	0
June	196	17	158	13	0	0	0
July	672	58	30	2	0	0	0
August	684	57	11	1	0	0	0
September	334	27	371	33	0	0	0
October	40	3	1825	167	9	3	0
November	0	0	2989	301	440	129	0
December	0	0	2690	282	2659	779	0
Total	1939	164	18195	1818	11902	3488	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 60 RDC Atelier REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	2933	859	0	0	0	0
February	2512	736	0	0	0	0
March	1983	581	0	0	0	0
April	1199	351	0	0	0	0
May	432	127	0	0	0	0
June	46	13	0	0	0	0
July	8	2	0	0	0	0
August	0	0	0	0	0	0
September	112	33	0	0	0	0
October	810	237	0	0	0	0
November	1665	488	0	0	0	0
December	2663	780	0	0	0	0
Total	14360	4209	0	0	0	0

Monthly Simulation Results for 61 RDC Billard REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1963	211	4381	1284	0
February	0	0	1962	222	3506	1028	0
March	0	0	3192	351	1449	425	0
April	0	0	2546	259	48	14	0
May	4	0	889	79	0	0	0
June	327	28	107	9	0	0	0
July	949	80	19	2	0	0	0
August	502	42	8	1	0	0	0
September	91	8	380	34	0	0	0
October	0	0	1932	184	7	2	0
November	0	0	3202	339	435	128	0
December	0	0	2779	308	2847	834	0
Total	1873	158	18978	2000	12674	3714	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 62 RDC Bureau 157 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1265	107	4143	1214	0
February	0	0	1097	97	3654	1071	0
March	0	0	2239	192	1994	584	0
April	0	0	2410	196	310	91	0
May	2	0	1240	96	1	0	0
June	64	6	380	30	0	0	0
July	228	19	111	9	0	0	0
August	180	14	179	14	0	0	0
September	76	6	705	55	1	0	0
October	0	0	1912	151	81	24	0
November	0	0	2376	198	916	268	0
December	0	0	1679	145	3223	945	0
Total	549	45	15595	1289	14322	4197	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 63 RDC Bureau 158 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1013	88	2362	692	0
February	0	0	996	89	1969	577	0
March	0	0	1756	155	855	251	0
April	0	0	1611	137	50	15	0
May	4	0	747	59	0	0	0
June	76	7	228	18	0	0	0
July	214	18	69	6	0	0	0
August	181	15	108	9	0	0	0
September	85	7	423	34	0	0	0
October	3	0	1198	98	8	2	0
November	0	0	1766	153	266	78	0
December	0	0	1475	130	1584	464	0
Total	563	46	11391	976	7095	2079	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 64 RDC Bureau 159 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	826	74	1860	545	0
February	0	0	846	77	1515	444	0
March	0	0	1405	127	660	193	0
April	0	0	1276	110	32	9	0
May	5	0	586	47	0	0	0
June	79	7	177	14	0	0	0
July	211	18	53	4	0	0	0
August	181	15	84	7	0	0	0
September	88	7	333	27	0	0	0
October	6	0	949	79	4	1	0
November	0	0	1420	126	195	57	0
December	0	0	1211	109	1229	360	0
Total	570	47	9166	801	5495	1610	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 65 RDC Bureau 160 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	816	73	1838	539	0
February	0	0	836	77	1495	438	0
March	0	0	1390	126	652	191	0
April	0	0	1261	109	32	9	0
May	5	0	579	47	0	0	0
June	77	7	176	14	0	0	0
July	207	17	52	4	0	0	0
August	177	14	83	7	0	0	0
September	86	7	329	27	0	0	0
October	6	0	938	78	4	1	0
November	0	0	1404	124	193	57	0
December	0	0	1197	108	1213	356	0
Total	559	46	9062	793	5427	1591	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 66 RDC Bureau 161 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	809	72	1822	534	0
February	0	0	830	76	1484	435	0
March	0	0	1386	126	647	190	0
April	0	0	1259	109	32	9	0
May	5	0	583	47	0	0	0
June	70	6	178	14	0	0	0
July	190	16	55	4	0	0	0
August	164	13	86	7	0	0	0
September	80	6	331	27	0	0	0
October	5	0	934	78	4	1	0
November	0	0	1393	123	191	56	0
December	0	0	1187	107	1203	353	0
Total	513	43	9030	790	5384	1578	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 67 RDC Poste1 163 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	675	61	1539	451	0
February	0	0	695	65	1246	365	0
March	0	0	1218	112	539	158	0
April	0	0	1107	97	26	8	0
May	0	0	507	41	0	0	0
June	1	0	127	10	0	0	0
July	9	1	26	2	0	0	0
August	7	1	53	4	0	0	0
September	0	0	282	23	0	0	0
October	0	0	844	70	3	1	0
November	0	0	1210	108	157	46	0
December	0	0	990	91	1013	297	0
Total	17	1	7733	686	4523	1326	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 68 RDC Poste2 162 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	844	75	1898	556	0
February	0	0	865	79	1550	454	0
March	0	0	1463	132	676	198	0
April	0	0	1334	115	33	10	0
May	2	0	624	50	0	0	0
June	47	4	194	15	0	0	0
July	146	12	59	5	0	0	0
August	125	10	93	7	0	0	0
September	59	5	354	29	0	0	0
October	2	0	983	82	4	1	0
November	0	0	1455	128	199	58	0
December	0	0	1236	111	1252	367	0
Total	383	32	9504	828	5611	1644	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 69 RDC Salle Com. 173 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	3921	366	8864	2598	0
February	0	0	4005	386	7169	2101	0
March	0	0	6931	654	3088	905	0
April	0	0	6184	551	138	41	0
May	0	0	2647	216	0	0	0
June	49	4	583	47	0	0	0
July	345	30	111	9	0	0	0
August	154	13	235	19	0	0	0
September	39	3	1511	124	0	0	0
October	0	0	4716	400	18	5	0
November	0	0	6886	632	898	263	0
December	0	0	5694	540	5816	1704	0
Total	586	50	43426	3943	25990	7617	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 70 RDC salle commune 175 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	542	58	1146	336	0
February	0	0	553	62	924	271	0
March	0	0	863	94	375	110	0
April	0	0	713	72	13	4	0
May	2	0	297	26	0	0	0
June	62	5	47	4	0	0	0
July	244	21	10	1	0	0	0
August	201	17	4	0	0	0	0
September	72	6	104	9	0	0	0
October	4	0	498	47	2	0	0
November	0	0	837	88	114	33	0
December	0	0	769	85	760	223	0
Total	584	49	5237	547	3334	977	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 71 RDC SOINS 167 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1140	98	2890	847	0
February	0	0	1069	95	2464	722	0
March	0	0	2065	179	1111	326	0
April	0	0	1929	161	74	22	0
May	0	0	852	67	0	0	0
June	46	4	230	18	0	0	0
July	165	14	63	5	0	0	0
August	84	7	119	9	0	0	0
September	29	2	542	43	0	0	0
October	0	0	1498	121	14	4	0
November	0	0	2071	176	390	114	0
December	0	0	1603	140	2034	596	0
Total	323	27	13180	1112	8978	2631	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 72 SAS/Corridor REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Preheat Coil Load (kBTU)	Preheat Coil Input (kWh)	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Terminal Heating Coil Load (kBTU)	Terminal Heating Coil Input (kWh)	Supply Fan (kWh)
January	0	0	246	18	34161	10011	0
February	0	0	190	14	29442	8629	0
March	78	23	186	13	24497	7179	0
April	140	41	303	22	13918	4079	0
May	5	2	622	44	5170	1515	0
June	0	0	688	48	1025	300	0
July	0	0	764	53	296	87	0
August	0	0	754	51	497	146	0
September	4	1	643	46	2941	862	0
October	0	0	551	40	11269	3303	0
November	0	0	407	29	20255	5936	0
December	0	0	323	23	31225	9151	0
Total	228	67	5676	401	174695	51198	0

Air System Simulation Results (Table 2) :

Month	Lighting (kWh)	Electric Equipment (kWh)
January	0	0
February	0	0
March	0	0
April	0	0
May	0	0
June	0	0
July	0	0
August	0	0
September	0	0
October	0	0
November	0	0
December	0	0
Total	0	0

Monthly Simulation Results for 73 169/ 170 / Corridor 100 et 2E HALL 170 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Preheat Coil Load (kBTU)	Preheat Coil Input (kWh)	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Terminal Heating Coil Load (kBTU)	Terminal Heating Coil Input (kWh)	Supply Fan (kWh)
January	4913	1440	0	0	8227	2411	0
February	4501	1319	0	0	6983	2047	0
March	3660	1073	0	0	6563	1923	0
April	1516	444	117	9	4984	1461	0
May	154	45	1272	99	3195	936	0
June	3	1	3108	239	1366	400	0
July	0	0	4555	343	549	161	0
August	1	0	4278	314	808	237	0
September	88	26	2152	165	1945	570	0
October	657	192	451	35	4328	1268	0
November	2328	682	39	3	5593	1639	0
December	4503	1320	0	0	7312	2143	0
Total	22325	6543	15972	1208	51854	15197	0

Air System Simulation Results (Table 2) :

Month	Lighting (kWh)	Electric Equipment (kWh)
January	0	0
February	0	0
March	0	0
April	0	0
May	0	0
June	0	0
July	0	0
August	0	0
September	0	0
October	0	0
November	0	0
December	0	0
Total	0	0

Monthly Simulation Results for 74 RDC Passage couvert 176 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Preheat Coil Load (kBTU)	Preheat Coil Input (kWh)	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Terminal Heating Coil Load (kBTU)	Terminal Heating Coil Input (kWh)	Supply Fan (kWh)
January	2	1	8496	671	31276	9166	0
February	3	1	8596	679	28408	8326	0
March	39	11	6782	541	22345	6549	0
April	41	12	3913	316	12116	3551	0
May	1	0	3822	315	4794	1405	0
June	0	0	5395	473	1334	391	0
July	0	0	8156	722	525	154	0
August	0	0	7111	611	806	236	0
September	1	0	5002	420	2967	869	0
October	14	4	3791	308	9443	2767	0
November	16	5	6080	488	18590	5448	0
December	3	1	9118	723	30079	8815	0
Total	121	35	76261	6268	162682	47677	0

Air System Simulation Results (Table 2) :

Month	Lighting (kWh)	Electric Equipment (kWh)
January	0	0
February	0	0
March	0	0
April	0	0
May	0	0
June	0	0
July	0	0
August	0	0
September	0	0
October	0	0
November	0	0
December	0	0
Total	0	0

Monthly Simulation Results for 75 2E ESC1 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	531	155	0	0	0
February	449	132	0	0	0
March	306	90	0	0	0
April	143	42	0	0	0
May	29	8	0	0	0
June	0	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	7	2	0	0	0
October	126	37	0	0	0
November	307	90	0	0	0
December	512	150	0	0	0
Total	2409	706	0	0	0

Monthly Simulation Results for 76 2E ESC2 / 2E Rang. 255 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	513	150	0	0	0
February	443	130	0	0	0
March	308	90	0	0	0
April	143	42	0	0	0
May	30	9	0	0	0
June	0	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	5	1	0	0	0
October	117	34	0	0	0
November	295	86	0	0	0
December	504	148	0	0	0
Total	2358	691	0	0	0

Monthly Simulation Results for 77 2E ESC3 et 2E Rang. 254 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	585	171	0	0	0
February	485	142	0	0	0
March	320	94	0	0	0
April	129	38	0	0	0
May	24	7	0	0	0
June	0	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	2	1	0	0	0
October	117	34	0	0	0
November	319	94	0	0	0
December	554	162	0	0	0
Total	2534	743	0	0	0

Monthly Simulation Results for 78 2E Rang. 256 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	46	14	0	0	0
February	37	11	0	0	0
March	16	5	0	0	0
April	0	0	0	0	0
May	0	0	0	0	0
June	0	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	0	0	0	0	0
October	3	1	0	0	0
November	20	6	0	0	0
December	44	13	0	0	0
Total	167	49	0	0	0

Monthly Simulation Results for 79 3E ESC1 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	527	154	0	0	0
February	447	131	0	0	0
March	305	89	0	0	0
April	143	42	0	0	0
May	28	8	0	0	0
June	0	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	7	2	0	0	0
October	126	37	0	0	0
November	306	90	0	0	0
December	510	149	0	0	0
Total	2398	703	0	0	0

Monthly Simulation Results for 80 3E ESC2 350 / 3E Rang. 355 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	511	150	0	0	0
February	442	130	0	0	0
March	306	90	0	0	0
April	142	42	0	0	0
May	30	9	0	0	0
June	0	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	5	1	0	0	0
October	117	34	0	0	0
November	295	87	0	0	0
December	503	147	0	0	0
Total	2350	689	0	0	0

Monthly Simulation Results for 81 3E ESC3 / 3E Rang. 354 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	577	169	0	0	0
February	479	140	0	0	0
March	316	93	0	0	0
April	127	37	0	0	0
May	23	7	0	0	0
June	0	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	2	1	0	0	0
October	116	34	0	0	0
November	317	93	0	0	0
December	549	161	0	0	0
Total	2505	734	0	0	0

Monthly Simulation Results for 82 3E Rang. 356 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	43	13	0	0	0
February	34	10	0	0	0
March	14	4	0	0	0
April	0	0	0	0	0
May	0	0	0	0	0
June	0	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	0	0	0	0	0
October	2	1	0	0	0
November	19	6	0	0	0
December	42	12	0	0	0
Total	156	46	0	0	0

Monthly Simulation Results for 83 4E ESC1 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	812	238	0	0	0
February	690	202	0	0	0
March	502	147	0	0	0
April	261	76	0	0	0
May	61	18	0	0	0
June	3	1	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	24	7	0	0	0
October	225	66	0	0	0
November	482	141	0	0	0
December	776	227	0	0	0
Total	3836	1124	0	0	0

Monthly Simulation Results for 84 4E ESC2 / 4E Conciergerie 455 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	856	251	0	0	0
February	737	216	0	0	0
March	541	158	0	0	0
April	283	83	0	0	0
May	68	20	0	0	0
June	2	1	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	23	7	0	0	0
October	233	68	0	0	0
November	509	149	0	0	0
December	830	243	0	0	0
Total	4081	1196	0	0	0

Monthly Simulation Results for 85 4E ESC3 / 4E Rang. 454 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	1195	350	0	0	0
February	1007	295	0	0	0
March	741	217	0	0	0
April	374	109	0	0	0
May	80	23	0	0	0
June	1	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	28	8	0	0	0
October	322	94	0	0	0
November	698	205	0	0	0
December	1125	330	0	0	0
Total	5570	1633	0	0	0

Monthly Simulation Results for 86 4E Rang. 456 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:29 PM

Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	224	66	0	0	0
February	188	55	0	0	0
March	139	41	0	0	0
April	60	18	0	0	0
May	11	3	0	0	0
June	0	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	2	1	0	0	0
October	51	15	0	0	0
November	124	36	0	0	0
December	207	61	0	0	0
Total	1007	295	0	0	0

Monthly Simulation Results for 87 RDC EAU REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	295	86	0	0	0
February	262	77	0	0	0
March	238	70	0	0	0
April	152	45	0	0	0
May	56	17	0	0	0
June	3	1	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	4	1	0	0	0
October	75	22	0	0	0
November	154	45	0	0	0
December	242	71	0	0	0
Total	1481	434	0	0	0

Monthly Simulation Results for 88 RDC ESC1 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	1237	363	0	0	0
February	1099	322	0	0	0
March	890	261	0	0	0
April	530	155	0	0	0
May	172	50	0	0	0
June	10	3	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	18	5	0	0	0
October	268	79	0	0	0
November	649	190	0	0	0
December	1090	319	0	0	0
Total	5963	1747	0	0	0

Monthly Simulation Results for 89 RDC ESC2 / RDC Conciergerie 155 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	1306	383	0	0	0
February	1181	346	0	0	0
March	1018	298	0	0	0
April	637	187	0	0	0
May	238	70	0	0	0
June	18	5	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	17	5	0	0	0
October	272	80	0	0	0
November	658	193	0	0	0
December	1132	332	0	0	0
Total	6478	1899	0	0	0

Monthly Simulation Results for 90 RDC ESC3 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	1244	365	0	0	0
February	1100	322	0	0	0
March	907	266	0	0	0
April	545	160	0	0	0
May	179	52	0	0	0
June	11	3	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	19	6	0	0	0
October	287	84	0	0	0
November	664	195	0	0	0
December	1091	320	0	0	0
Total	6048	1773	0	0	0

Monthly Simulation Results for 91 RDC Méc 154 REF

(In Alternative: a) Alternative REF)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	236	69	0	0	0
February	199	58	0	0	0
March	154	45	0	0	0
April	82	24	0	0	0
May	22	6	0	0	0
June	0	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	0	0	0	0	0
October	31	9	0	0	0
November	100	29	0	0	0
December	181	53	0	0	0
Total	1005	295	0	0	0

Monthly Simulation Results for 01 2E 201 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	28	1	2777	382	165	48	0
February	55	2	2538	316	16	5	0
March	285	11	1760	206	6	2	0
April	370	14	838	85	0	0	0
May	898	35	149	13	0	0	0
June	1579	65	2	0	0	0	0
July	2520	105	0	0	0	0	0
August	2487	100	0	0	0	0	0
September	1804	70	44	4	0	0	0
October	523	19	723	66	0	0	0
November	164	6	1748	181	0	0	0
December	11	0	2853	345	43	13	0
Total	10725	427	13432	1597	229	67	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 02 2E 202 à 204 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	2	0	5824	693	346	102	0
February	6	0	5325	575	34	10	0
March	137	5	3731	379	12	3	0
April	306	11	1784	157	0	0	0
May	1323	51	322	24	0	0	0
June	2686	110	3	0	0	0	0
July	4550	185	0	0	0	0	0
August	4480	176	0	0	0	0	0
September	3076	118	89	7	0	0	0
October	723	27	1534	123	0	0	0
November	143	5	3662	331	0	0	0
December	1	0	5955	625	89	26	0
Total	17433	689	28231	2914	481	141	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 03 2E 205 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	39	1	2609	362	110	32	0
February	68	3	2351	295	7	2	0
March	302	11	1622	191	1	0	0
April	379	14	760	77	0	0	0
May	884	34	134	12	0	0	0
June	1532	63	1	0	0	0	0
July	2431	101	0	0	0	0	0
August	2414	97	0	0	0	0	0
September	1769	69	38	4	0	0	0
October	527	20	661	61	0	0	0
November	175	6	1614	168	0	0	0
December	15	1	2649	323	26	8	0
Total	10536	420	12440	1491	144	42	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 04 2E 207 et 206 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	3355	482	0	0	0
February	0	0	2914	372	0	0	0
March	8	0	2054	244	0	0	0
April	38	1	981	99	0	0	0
May	534	22	168	15	0	0	0
June	1307	57	1	0	0	0	0
July	2357	102	0	0	0	0	0
August	2285	96	0	0	0	0	0
September	1486	61	40	4	0	0	0
October	274	11	833	77	0	0	0
November	21	1	1991	209	0	0	0
December	0	0	3283	409	0	0	0
Total	8311	351	15620	1909	0	0	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 05 2E 208 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	19	1	2796	384	163	48	0
February	42	2	2551	317	15	4	0
March	241	9	1749	204	5	1	0
April	322	12	804	81	0	0	0
May	848	33	137	12	0	0	0
June	1552	64	1	0	0	0	0
July	2524	105	0	0	0	0	0
August	2477	99	0	0	0	0	0
September	1764	68	34	3	0	0	0
October	483	18	701	64	0	0	0
November	141	5	1747	181	0	0	0
December	7	0	2872	347	42	12	0
Total	10419	416	13392	1595	226	66	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 06 2E 209 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	3393	368	1101	323	0
February	0	0	3370	338	430	126	0
March	0	0	2770	261	141	41	0
April	0	0	1341	112	0	0	0
May	176	7	270	20	0	0	0
June	840	34	8	1	0	0	0
July	1575	64	1	0	0	0	0
August	1038	41	0	0	0	0	0
September	307	13	122	9	0	0	0
October	0	0	1272	98	0	0	0
November	0	0	2614	224	2	1	0
December	0	0	3660	356	482	141	0
Total	3937	159	18822	1787	2156	632	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 07 2E 210 à 214 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	12638	1469	879	258	0
February	0	0	11320	1202	57	17	0
March	0	0	8339	824	27	8	0
April	0	0	3464	296	0	0	0
May	314	13	629	47	0	0	0
June	2849	115	7	0	0	0	0
July	5860	233	0	0	0	0	0
August	3616	143	0	0	0	0	0
September	854	35	206	16	0	0	0
October	0	0	3464	273	0	0	0
November	0	0	7775	693	0	0	0
December	0	0	12350	1277	213	63	0
Total	13494	538	60190	6097	1176	345	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 08 2E 215 et 216 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	5025	581	326	95	0
February	0	0	4520	478	26	8	0
March	0	0	3464	341	12	3	0
April	0	0	1509	129	0	0	0
May	48	2	258	19	0	0	0
June	831	34	2	0	0	0	0
July	1857	75	0	0	0	0	0
August	1069	43	0	0	0	0	0
September	261	11	83	7	0	0	0
October	0	0	1416	111	0	0	0
November	0	0	3087	274	0	0	0
December	0	0	4889	504	75	22	0
Total	4067	165	24253	2444	438	128	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 09 2E 217 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	3515	382	1399	410	0
February	0	0	3523	354	628	184	0
March	0	0	2976	279	195	57	0
April	0	0	1398	116	0	0	0
May	135	5	275	20	0	0	0
June	940	37	6	0	0	0	0
July	1841	72	0	0	0	0	0
August	1161	45	0	0	0	0	0
September	285	12	108	8	0	0	0
October	0	0	1340	103	0	0	0
November	0	0	2825	242	18	5	0
December	0	0	3876	377	666	195	0
Total	4362	171	19841	1881	2905	851	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 10 2E 218 et 219 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	4154	490	80	23	0
February	0	0	3586	383	0	0	0
March	0	0	2670	265	0	0	0
April	0	0	1101	94	0	0	0
May	33	1	190	14	0	0	0
June	693	29	1	0	0	0	0
July	1631	66	0	0	0	0	0
August	958	38	0	0	0	0	0
September	219	9	49	4	0	0	0
October	0	0	1080	85	0	0	0
November	0	0	2435	218	0	0	0
December	0	0	3923	410	13	4	0
Total	3535	144	19187	1963	93	27	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 11 2E 220 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	3000	340	551	161	0
February	0	0	2839	296	132	39	0
March	0	0	2087	203	47	14	0
April	0	0	868	74	0	0	0
May	164	6	157	12	0	0	0
June	921	36	1	0	0	0	0
July	1761	69	0	0	0	0	0
August	1130	44	0	0	0	0	0
September	272	11	49	4	0	0	0
October	0	0	881	69	0	0	0
November	0	0	2030	179	0	0	0
December	0	0	3109	314	198	58	0
Total	4248	166	15021	1491	927	272	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 12 2E 221 à 225 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	12630	1469	878	257	0
February	0	0	11299	1201	54	16	0
March	0	0	8264	817	27	8	0
April	0	0	3416	292	0	0	0
May	352	14	624	47	0	0	0
June	2935	118	6	0	0	0	0
July	6007	239	0	0	0	0	0
August	3760	148	0	0	0	0	0
September	892	37	197	15	0	0	0
October	0	0	3426	270	0	0	0
November	0	0	7755	692	0	0	0
December	0	0	12353	1278	215	63	0
Total	13946	555	59971	6081	1173	344	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 13 2E 226 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	2079	246	41	12	0
February	0	0	1794	192	0	0	0
March	0	0	1330	132	0	0	0
April	0	0	546	47	0	0	0
May	17	1	94	7	0	0	0
June	354	15	0	0	0	0	0
July	828	34	0	0	0	0	0
August	488	20	0	0	0	0	0
September	111	5	23	2	0	0	0
October	0	0	537	42	0	0	0
November	0	0	1218	109	0	0	0
December	0	0	1965	206	7	2	0
Total	1797	73	9586	982	48	14	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 14 2E 227 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	3604	388	1570	460	0
February	0	0	3620	361	763	224	0
March	0	0	3121	291	240	70	0
April	0	0	1509	125	0	0	0
May	125	5	315	23	0	0	0
June	916	36	8	1	0	0	0
July	1832	72	0	0	0	0	0
August	1175	46	0	0	0	0	0
September	311	13	124	9	0	0	0
October	0	0	1426	109	0	0	0
November	0	0	2958	252	35	10	0
December	0	0	4006	387	782	229	0
Total	4359	172	20691	1946	3389	993	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 15 2E 228 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1743	208	40	12	0
February	0	0	1548	166	0	0	0
March	0	0	1082	108	0	0	0
April	0	0	477	41	0	0	0
May	98	4	91	7	0	0	0
June	490	20	0	0	0	0	0
July	1047	42	0	0	0	0	0
August	919	36	0	0	0	0	0
September	471	18	17	1	0	0	0
October	48	2	423	33	0	0	0
November	0	0	1019	92	0	0	0
December	0	0	1749	184	9	2	0
Total	3073	122	8150	841	49	14	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 16 2E 229 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	3900	502	704	206	0
February	0	0	3741	439	208	61	0
March	0	0	2683	296	82	24	0
April	5	0	1317	128	0	0	0
May	429	17	293	25	0	0	0
June	1316	55	8	1	0	0	0
July	2458	101	0	0	0	0	0
August	2250	90	0	0	0	0	0
September	1338	53	90	8	0	0	0
October	193	7	1172	104	0	0	0
November	8	0	2660	267	0	0	0
December	0	0	4220	484	279	82	0
Total	7997	323	20085	2253	1272	373	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 17 2E 230 à 234 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	15	1	10038	1193	675	198	0
February	31	1	9163	989	70	21	0
March	457	17	6375	647	28	8	0
April	812	30	3019	266	0	0	0
May	2676	101	544	41	0	0	0
June	5070	206	6	0	0	0	0
July	8376	339	0	0	0	0	0
August	8235	321	0	0	0	0	0
September	5745	218	153	12	0	0	0
October	1446	53	2634	211	0	0	0
November	337	12	6342	573	0	0	0
December	4	0	10287	1080	182	53	0
Total	33204	1300	48561	5013	955	280	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 18 2E 235 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	41	2	2603	361	108	32	0
February	71	3	2345	294	7	2	0
March	308	11	1621	191	1	0	0
April	383	14	760	77	0	0	0
May	883	34	135	12	0	0	0
June	1517	63	1	0	0	0	0
July	2413	100	0	0	0	0	0
August	2412	97	0	0	0	0	0
September	1772	69	38	4	0	0	0
October	531	20	660	61	0	0	0
November	178	7	1610	168	0	0	0
December	16	1	2643	322	26	8	0
Total	10524	419	12416	1489	142	42	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 19 2E 236 et 237 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	3280	398	62	18	0
February	0	0	2903	317	2	0	0
March	6	0	2047	209	0	0	0
April	30	1	979	86	0	0	0
May	419	17	172	13	0	0	0
June	1061	45	0	0	0	0	0
July	1986	83	0	0	0	0	0
August	2035	82	0	0	0	0	0
September	1352	53	37	3	0	0	0
October	246	9	823	66	0	0	0
November	16	1	1978	180	0	0	0
December	0	0	3258	347	12	4	0
Total	7152	290	15478	1618	76	22	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 20 2E salle commune 257 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBtu)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBtu)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBtu)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1073	138	6	2	0
February	0	0	938	107	0	0	0
March	3	0	694	73	0	0	0
April	11	0	341	31	0	0	0
May	113	4	76	6	0	0	0
June	336	13	2	0	0	0	0
July	635	24	0	0	0	0	0
August	569	21	0	0	0	0	0
September	344	13	25	2	0	0	0
October	57	2	292	24	0	0	0
November	5	0	631	60	0	0	0
December	0	0	1053	118	1	0	0
Total	2073	78	5124	558	7	2	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 21 3E 301 à 308 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	33	1	18084	2557	220	64	0
February	69	3	15890	2012	3	1	0
March	844	32	11154	1317	0	0	0
April	1405	54	5292	536	0	0	0
May	4579	180	930	81	0	0	0
June	8693	368	8	1	0	0	0
July	14306	605	0	0	0	0	0
August	14127	579	0	0	0	0	0
September	9893	393	269	25	0	0	0
October	2578	99	4578	421	0	0	0
November	645	24	10883	1138	0	0	0
December	11	0	17892	2207	38	11	0
Total	57185	2339	84980	10295	261	76	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 22 3E 309 à 328 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	53982	6195	5340	1565	0
February	0	0	49418	5196	640	187	0
March	0	0	36874	3618	247	72	0
April	0	0	15600	1330	0	0	0
May	1517	61	2842	211	0	0	0
June	12405	500	32	2	0	0	0
July	25051	997	0	0	0	0	0
August	15673	618	0	0	0	0	0
September	3813	156	986	77	0	0	0
October	0	0	15504	1216	0	0	0
November	0	0	34245	3035	0	0	0
December	0	0	53644	5492	1523	446	0
Total	58459	2332	263128	26372	7749	2271	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 23 3E 329 et 330 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	5326	595	1038	304	0
February	0	0	5145	526	335	98	0
March	0	0	3714	356	123	36	0
April	3	0	1796	152	0	0	0
May	507	20	375	28	0	0	0
June	1833	74	6	0	0	0	0
July	3529	140	0	0	0	0	0
August	3185	123	0	0	0	0	0
September	1776	68	105	8	0	0	0
October	225	9	1606	125	0	0	0
November	2	0	3682	322	0	0	0
December	0	0	5810	579	432	127	0
Total	11060	434	27564	2692	1928	565	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 24 3E 331 à 338 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	17	1	15711	1871	968	284	0
February	36	1	14336	1549	95	28	0
March	605	22	9996	1016	34	10	0
April	1128	42	4727	416	0	0	0
May	4003	152	840	64	0	0	0
June	7759	316	7	0	0	0	0
July	12910	524	0	0	0	0	0
August	12792	500	0	0	0	0	0
September	8925	340	231	19	0	0	0
October	2195	81	4124	330	0	0	0
November	484	18	9905	896	0	0	0
December	3	0	16101	1692	254	75	0
Total	50856	1997	75979	7853	1351	396	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 25 3E salle commune 357 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBtu)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBtu)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBtu)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1070	137	6	2	0
February	0	0	935	107	0	0	0
March	3	0	689	72	0	0	0
April	11	0	337	30	0	0	0
May	119	4	73	6	0	0	0
June	348	13	2	0	0	0	0
July	649	25	0	0	0	0	0
August	581	22	0	0	0	0	0
September	350	13	25	2	0	0	0
October	58	2	291	24	0	0	0
November	5	0	630	60	0	0	0
December	0	0	1053	118	1	0	0
Total	2123	80	5105	556	7	2	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 26 4E 401 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	15	1	3444	456	460	135	0
February	35	1	3276	396	101	30	0
March	242	9	2430	276	49	14	0
April	345	13	1305	129	0	0	0
May	933	37	285	24	0	0	0
June	1664	70	14	1	0	0	0
July	2638	112	2	0	0	0	0
August	2554	104	0	0	0	0	0
September	1819	72	127	11	0	0	0
October	513	19	1102	99	0	0	0
November	146	6	2360	240	0	0	0
December	6	0	3645	428	144	42	0
Total	10909	445	17990	2061	753	221	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 27 4E 402 à 404 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	1	0	7187	824	977	286	0
February	2	0	6839	718	219	64	0
March	97	4	5103	503	104	30	0
April	269	10	2762	238	0	0	0
May	1418	54	620	46	0	0	0
June	2907	119	29	2	0	0	0
July	4832	197	4	0	0	0	0
August	4635	182	0	0	0	0	0
September	3105	119	269	21	0	0	0
October	697	26	2329	183	0	0	0
November	115	4	4939	438	0	0	0
December	0	0	7597	776	308	90	0
Total	18078	714	37680	3749	1609	471	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 28 4E 405 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	17	1	3269	437	348	102	0
February	37	1	3068	374	59	17	0
March	241	9	2249	257	29	9	0
April	340	13	1189	118	0	0	0
May	911	35	256	22	0	0	0
June	1614	67	12	1	0	0	0
July	2546	106	2	0	0	0	0
August	2472	99	0	0	0	0	0
September	1764	68	114	10	0	0	0
October	502	19	1013	91	0	0	0
November	147	5	2188	224	0	0	0
December	7	0	3417	405	102	30	0
Total	10599	423	16778	1939	539	158	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 29 4E 406 et 407 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	4227	495	292	85	0
February	0	0	3878	413	30	9	0
March	6	0	2886	287	17	5	0
April	35	1	1551	134	0	0	0
May	565	22	334	25	0	0	0
June	1358	57	13	1	0	0	0
July	2379	99	1	0	0	0	0
August	2258	90	0	0	0	0	0
September	1415	56	140	11	0	0	0
October	252	10	1299	102	0	0	0
November	13	0	2733	244	0	0	0
December	0	0	4298	446	73	21	0
Total	8281	335	21360	2158	412	121	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 30 4E 408 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	6	0	3481	460	469	138	0
February	19	1	3308	399	104	30	0
March	186	7	2428	275	49	14	0
April	287	11	1285	127	0	0	0
May	884	34	268	23	0	0	0
June	1652	68	11	1	0	0	0
July	2657	110	1	0	0	0	0
August	2547	102	0	0	0	0	0
September	1762	68	114	10	0	0	0
October	460	17	1094	99	0	0	0
November	115	4	2379	242	0	0	0
December	3	0	3691	433	148	43	0
Total	10578	423	18062	2070	770	226	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 31 4E 409 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	3685	393	1715	503	0
February	0	0	3713	367	869	255	0
March	0	0	3328	307	286	84	0
April	1	0	1792	148	1	0	0
May	214	9	430	31	0	0	0
June	916	38	29	2	0	0	0
July	1668	68	4	0	0	0	0
August	1096	44	1	0	0	0	0
September	338	14	244	18	0	0	0
October	2	0	1646	125	0	0	0
November	0	0	3145	265	45	13	0
December	0	0	4105	393	865	254	0
Total	4235	171	22122	2049	3782	1108	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 32 4E 410 à 417 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	23699	2657	3666	1074	0
February	0	0	22382	2310	764	224	0
March	0	0	17507	1689	307	90	0
April	0	0	8130	686	0	0	0
May	632	26	1753	129	0	0	0
June	5077	206	74	5	0	0	0
July	10076	404	11	1	0	0	0
August	6187	246	0	0	0	0	0
September	1586	65	816	62	0	0	0
October	0	0	7882	611	0	0	0
November	0	0	16094	1408	0	0	0
December	0	0	24189	2430	1177	345	0
Total	23557	948	122537	11988	5914	1733	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 33 4E 418 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	3837	406	2139	627	0
February	0	0	3839	378	1226	359	0
March	0	0	3586	328	403	118	0
April	0	0	1882	154	4	1	0
May	171	7	430	31	0	0	0
June	1081	43	24	2	0	0	0
July	2021	80	4	0	0	0	0
August	1246	49	0	0	0	0	0
September	321	13	223	17	0	0	0
October	0	0	1774	134	3	1	0
November	0	0	3407	286	111	32	0
December	0	0	4332	411	1182	346	0
Total	4839	192	23338	2147	5067	1485	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 34 4E 419 et 420 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	5098	579	324	95	0
February	0	0	4593	478	20	6	0
March	0	0	3606	349	9	3	0
April	0	0	1699	143	0	0	0
May	64	3	345	25	0	0	0
June	807	34	11	1	0	0	0
July	1781	73	1	0	0	0	0
August	1044	42	0	0	0	0	0
September	264	11	144	11	0	0	0
October	0	0	1589	123	0	0	0
November	0	0	3199	281	0	0	0
December	0	0	4949	502	72	21	0
Total	3960	163	25234	2492	426	125	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 35 4E 421 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	3407	373	1133	332	0
February	0	0	3374	341	449	132	0
March	0	0	2755	261	140	41	0
April	0	0	1291	108	0	0	0
May	156	6	272	20	0	0	0
June	973	39	11	1	0	0	0
July	1838	72	1	0	0	0	0
August	1151	45	0	0	0	0	0
September	287	12	123	9	0	0	0
October	0	0	1277	98	0	0	0
November	0	0	2653	229	4	1	0
December	0	0	3705	363	508	149	0
Total	4405	174	18866	1803	2233	654	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 36 4E 422 à 426 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	14796	1660	2278	667	0
February	0	0	13963	1442	466	137	0
March	0	0	10882	1050	186	55	0
April	0	0	5032	425	0	0	0
May	394	16	1083	80	0	0	0
June	3175	129	45	3	0	0	0
July	6322	254	6	0	0	0	0
August	3897	155	0	0	0	0	0
September	997	41	497	38	0	0	0
October	0	0	4896	380	0	0	0
November	0	0	10034	878	0	0	0
December	0	0	15102	1518	731	214	0
Total	14784	595	76335	7473	3661	1073	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 37 4E 427 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	2569	292	174	51	0
February	0	0	2319	242	11	3	0
March	0	0	1812	176	6	2	0
April	0	0	846	72	0	0	0
May	33	1	170	13	0	0	0
June	415	17	5	0	0	0	0
July	916	38	0	0	0	0	0
August	537	22	0	0	0	0	0
September	133	5	70	5	0	0	0
October	0	0	797	62	0	0	0
November	0	0	1617	142	0	0	0
December	0	0	2502	254	40	12	0
Total	2034	83	12707	1257	231	68	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 38 4E 428 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	3919	412	2369	694	0
February	0	0	3907	383	1438	421	0
March	0	0	3741	340	484	142	0
April	0	0	2033	166	9	3	0
May	138	6	498	36	0	0	0
June	983	39	30	2	0	0	0
July	1922	76	5	0	0	0	0
August	1214	48	0	0	0	0	0
September	340	14	251	18	0	0	0
October	1	0	1876	141	5	2	0
November	0	0	3539	295	158	46	0
December	0	0	4434	419	1374	403	0
Total	4597	182	24234	2213	5837	1711	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 39 4E 429 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	2237	258	156	46	0
February	0	0	2051	215	11	3	0
March	0	0	1501	146	8	2	0
April	0	0	731	62	0	0	0
May	98	4	167	12	0	0	0
June	541	22	6	0	0	0	0
July	1122	45	0	0	0	0	0
August	949	37	0	0	0	0	0
September	443	17	56	4	0	0	0
October	41	2	646	50	0	0	0
November	0	0	1391	123	0	0	0
December	0	0	2284	234	41	12	0
Total	3194	128	11069	1106	216	63	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 40 4E 430 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	4550	572	1329	389	0
February	0	0	4454	513	574	168	0
March	0	0	3451	372	189	55	0
April	5	0	1827	174	0	0	0
May	444	18	501	42	0	0	0
June	1406	59	32	3	0	0	0
July	2577	106	5	0	0	0	0
August	2301	92	0	0	0	0	0
September	1296	52	206	18	0	0	0
October	175	7	1620	142	0	0	0
November	1	0	3409	335	6	2	0
December	0	0	5061	567	613	180	0
Total	8205	333	25114	2738	2711	794	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 41 4E 431 à 435 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	7	0	13468	1860	436	128	0
February	18	1	11972	1492	18	5	0
March	369	14	8800	1022	1	0	0
April	752	29	4642	463	0	0	0
May	2860	113	1037	89	0	0	0
June	5478	232	50	4	0	0	0
July	8910	378	9	1	0	0	0
August	8647	355	0	0	0	0	0
September	5942	237	455	40	0	0	0
October	1470	57	3940	357	0	0	0
November	308	12	8408	869	0	0	0
December	1	0	13394	1626	91	27	0
Total	34763	1428	66174	7825	547	160	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 42 4E 436 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	18	1	3267	437	347	102	0
February	39	1	3066	373	59	17	0
March	244	9	2248	257	29	9	0
April	343	13	1188	118	0	0	0
May	911	35	256	22	0	0	0
June	1604	66	12	1	0	0	0
July	2535	105	2	0	0	0	0
August	2474	99	0	0	0	0	0
September	1767	68	113	10	0	0	0
October	504	19	1011	91	0	0	0
November	149	5	2186	223	0	0	0
December	7	0	3415	405	102	30	0
Total	10596	423	16763	1938	537	157	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 43 4E 437 et 438 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	4203	492	278	81	0
February	0	0	3848	410	28	8	0
March	5	0	2866	286	15	4	0
April	29	1	1546	133	0	0	0
May	500	20	334	25	0	0	0
June	1278	53	12	1	0	0	0
July	2258	94	1	0	0	0	0
August	2169	87	0	0	0	0	0
September	1387	55	134	10	0	0	0
October	244	9	1284	101	0	0	0
November	11	0	2707	242	0	0	0
December	0	0	4266	443	69	20	0
Total	7881	319	21201	2144	390	114	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 44 4E salle commune 457 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1303	164	28	8	0
February	0	0	1150	129	0	0	0
March	0	0	866	90	0	0	0
April	3	0	445	40	0	0	0
May	107	4	117	9	0	0	0
June	352	14	7	1	0	0	0
July	663	26	1	0	0	0	0
August	577	22	0	0	0	0	0
September	328	12	49	4	0	0	0
October	49	2	383	31	0	0	0
November	1	0	782	73	0	0	0
December	0	0	1284	142	5	1	0
Total	2081	79	6386	682	33	10	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 45 RDC 101 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	57	2	3032	407	225	66	0
February	99	4	2803	344	29	8	0
March	380	14	2072	238	15	4	0
April	434	16	1115	111	0	0	0
May	868	33	252	22	0	0	0
June	1465	61	13	1	0	0	0
July	2398	100	0	0	0	0	0
August	2454	98	0	0	0	0	0
September	1881	72	67	6	0	0	0
October	616	23	778	71	0	0	0
November	218	8	1830	189	0	0	0
December	29	1	2968	356	51	15	0
Total	10901	431	14931	1744	320	94	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 46 RDC 102 et 103 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	3799	448	151	44	0
February	0	0	3423	367	11	3	0
March	12	0	2566	257	2	1	0
April	40	2	1414	122	0	0	0
May	432	17	327	24	0	0	0
June	1073	45	13	1	0	0	0
July	1997	83	0	0	0	0	0
August	2037	82	0	0	0	0	0
September	1377	54	81	6	0	0	0
October	296	11	993	79	0	0	0
November	27	1	2244	202	0	0	0
December	0	0	3624	381	27	8	0
Total	7292	296	18484	1888	191	56	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 47 RDC 104 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	29	1	3252	431	322	94	0
February	66	2	3057	371	58	17	0
March	305	11	2257	257	28	8	0
April	365	13	1227	121	0	0	0
May	794	30	277	24	0	0	0
June	1425	59	13	1	0	0	0
July	2395	99	0	0	0	0	0
August	2455	98	0	0	0	0	0
September	1845	71	65	6	0	0	0
October	569	21	843	77	0	0	0
November	180	7	1998	205	0	0	0
December	14	1	3228	384	79	23	0
Total	10442	414	16217	1876	487	143	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 48 RDC 105 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	3734	396	1590	466	0
February	0	0	3745	369	817	240	0
March	0	0	3435	315	267	78	0
April	0	0	1918	157	0	0	0
May	119	5	508	37	0	0	0
June	733	30	37	3	0	0	0
July	1490	61	4	0	0	0	0
August	975	39	0	0	0	0	0
September	271	11	190	14	0	0	0
October	0	0	1477	113	0	0	0
November	0	0	2969	252	19	6	0
December	0	0	4007	385	716	210	0
Total	3589	146	22026	2041	3410	999	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 49 RDC 106 à 109 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	11633	1311	1369	401	0
February	0	0	10783	1120	236	69	0
March	0	0	8577	827	94	28	0
April	0	0	4188	350	0	0	0
May	149	6	1072	78	0	0	0
June	1999	81	52	4	0	0	0
July	4371	174	7	0	0	0	0
August	2599	103	0	0	0	0	0
September	539	22	339	26	0	0	0
October	0	0	3491	272	0	0	0
November	0	0	7319	644	0	0	0
December	0	0	11233	1142	350	103	0
Total	9657	386	58694	5774	2049	601	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 50 RDC 110 et 111 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	4829	555	180	53	0
February	0	0	4259	447	5	2	0
March	0	0	3425	332	1	0	0
April	0	0	1689	142	0	0	0
May	7	0	406	30	0	0	0
June	468	20	11	1	0	0	0
July	1266	53	0	0	0	0	0
August	685	28	0	0	0	0	0
September	133	6	110	8	0	0	0
October	0	0	1356	106	0	0	0
November	0	0	2819	249	0	0	0
December	0	0	4417	455	28	8	0
Total	2560	107	23321	2325	215	63	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 51 RDC 112 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	3359	369	894	262	0
February	0	0	3273	333	320	94	0
March	0	0	2694	255	103	30	0
April	0	0	1331	110	0	0	0
May	81	3	330	24	0	0	0
June	746	30	14	1	0	0	0
July	1535	60	1	0	0	0	0
August	944	37	0	0	0	0	0
September	196	8	94	7	0	0	0
October	0	0	1099	85	0	0	0
November	0	0	2365	206	0	0	0
December	0	0	3453	343	327	96	0
Total	3502	138	18013	1733	1644	482	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 52 RDC 113 à 117 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	14551	1640	1712	502	0
February	0	0	13484	1400	292	86	0
March	0	0	10713	1033	117	34	0
April	0	0	5224	437	0	0	0
May	184	7	1342	98	0	0	0
June	2442	99	61	4	0	0	0
July	5331	212	7	1	0	0	0
August	3184	126	0	0	0	0	0
September	660	27	408	31	0	0	0
October	0	0	4322	337	0	0	0
November	0	0	9121	803	0	0	0
December	0	0	14044	1428	438	128	0
Total	11801	471	73277	7210	2559	750	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 53 RDC 118 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	2404	277	88	26	0
February	0	0	2118	223	2	1	0
March	0	0	1702	165	1	0	0
April	0	0	845	71	0	0	0
May	3	0	203	15	0	0	0
June	227	10	5	0	0	0	0
July	624	25	0	0	0	0	0
August	337	14	0	0	0	0	0
September	64	3	55	4	0	0	0
October	0	0	674	53	0	0	0
November	0	0	1401	124	0	0	0
December	0	0	2197	227	13	4	0
Total	1255	51	11604	1158	105	31	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 54 RDC 119 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	3971	415	2193	643	0
February	0	0	3935	385	1360	398	0
March	0	0	3867	349	455	133	0
April	0	0	2202	177	9	3	0
May	54	2	635	45	0	0	0
June	741	30	40	3	0	0	0
July	1655	65	5	0	0	0	0
August	1043	41	0	0	0	0	0
September	253	10	199	15	0	0	0
October	0	0	1667	126	1	0	0
November	0	0	3341	280	87	26	0
December	0	0	4342	412	1128	330	0
Total	3745	148	24206	2209	5233	1534	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 55 RDC 120 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	2026	235	84	25	0
February	0	0	1831	193	3	1	0
March	0	0	1367	134	2	1	0
April	0	0	703	60	0	0	0
May	58	2	183	14	0	0	0
June	372	15	5	0	0	0	0
July	870	35	0	0	0	0	0
August	809	32	0	0	0	0	0
September	442	17	33	3	0	0	0
October	55	2	498	39	0	0	0
November	0	0	1140	102	0	0	0
December	0	0	1940	202	15	4	0
Total	2605	103	9726	980	105	31	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 56 RDC 121 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	3568	373	2006	588	0
February	0	0	3431	335	1409	413	0
March	0	0	3117	280	480	141	0
April	2	0	1878	151	19	6	0
May	336	13	589	42	0	0	0
June	1157	46	39	3	0	0	0
July	2329	91	5	0	0	0	0
August	2227	84	0	0	0	0	0
September	1448	54	130	10	0	0	0
October	251	9	1319	100	2	1	0
November	13	0	2883	242	128	37	0
December	0	0	4001	378	1153	338	0
Total	7763	299	20961	1915	5197	1523	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 57 RDC 122 à 126 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	31	1	12588	1745	245	72	0
February	105	4	11091	1388	6	2	0
March	754	28	8189	953	0	0	0
April	1080	41	4437	442	0	0	0
May	2727	107	1068	92	0	0	0
June	4855	207	55	4	0	0	0
July	8105	345	2	0	0	0	0
August	8367	344	0	0	0	0	0
September	6200	245	289	26	0	0	0
October	1814	69	3159	289	0	0	0
November	497	19	7247	753	0	0	0
December	17	1	11810	1447	35	10	0
Total	34554	1410	59933	7139	286	84	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 58 RDC 127 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	59	2	3016	405	221	65	0
February	104	4	2783	341	27	8	0
March	393	14	2054	236	14	4	0
April	447	16	1106	110	0	0	0
May	864	33	252	22	0	0	0
June	1420	59	13	1	0	0	0
July	2311	96	0	0	0	0	0
August	2400	96	0	0	0	0	0
September	1867	71	65	6	0	0	0
October	626	23	767	70	0	0	0
November	224	8	1813	187	0	0	0
December	31	1	2949	354	50	15	0
Total	10747	424	14818	1732	312	92	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 59 RDC 128 et 129 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	3799	448	144	42	0
February	0	0	3419	367	10	3	0
March	8	0	2577	258	2	0	0
April	28	1	1436	124	0	0	0
May	321	13	351	26	0	0	0
June	849	36	13	1	0	0	0
July	1663	70	0	0	0	0	0
August	1847	74	0	0	0	0	0
September	1299	51	75	6	0	0	0
October	280	11	984	78	0	0	0
November	22	1	2228	201	0	0	0
December	0	0	3610	379	25	7	0
Total	6318	257	18493	1888	181	53	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 60 RDC Atelier CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	2716	796	0	0	0	0
February	2320	680	0	0	0	0
March	1728	506	0	0	0	0
April	967	284	0	0	0	0
May	248	73	0	0	0	0
June	12	3	0	0	0	0
July	1	0	0	0	0	0
August	0	0	0	0	0	0
September	45	13	0	0	0	0
October	638	187	0	0	0	0
November	1500	440	0	0	0	0
December	2486	729	0	0	0	0
Total	12661	3711	0	0	0	0

Monthly Simulation Results for 61 RDC Billard CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	4766	618	1104	324	0
February	0	0	4581	546	361	106	0
March	0	0	3658	404	128	38	0
April	6	0	1767	170	0	0	0
May	517	20	462	39	0	0	0
June	1535	62	25	2	0	0	0
July	2459	100	3	0	0	0	0
August	1707	70	0	0	0	0	0
September	537	23	160	14	0	0	0
October	4	0	1455	130	0	0	0
November	0	0	3227	326	0	0	0
December	0	0	4860	565	379	111	0
Total	6764	276	24963	2814	1972	578	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 62 RDC Bureau 157 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	2097	209	1208	354	0
February	0	0	2054	195	839	246	0
March	0	0	2106	186	337	99	0
April	0	0	1486	119	21	6	0
May	14	1	603	44	0	0	0
June	142	7	121	9	0	0	0
July	362	16	26	2	0	0	0
August	340	15	39	3	0	0	0
September	171	7	283	21	0	0	0
October	13	1	1091	83	4	1	0
November	0	0	1865	155	93	27	0
December	0	0	2314	213	695	204	0
Total	1041	46	14086	1239	3198	937	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 63 RDC Bureau 158 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1699	178	430	126	0
February	0	0	1676	164	186	55	0
March	0	0	1464	135	71	21	0
April	0	0	939	78	0	0	0
May	30	1	372	28	0	0	0
June	172	8	81	6	0	0	0
July	387	17	18	1	0	0	0
August	380	16	24	2	0	0	0
September	209	9	181	14	0	0	0
October	25	1	681	54	0	0	0
November	0	0	1249	108	0	0	0
December	0	0	1774	170	172	50	0
Total	1204	53	10159	937	858	252	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 64 RDC Bureau 159 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1454	159	209	61	0
February	0	0	1398	142	58	17	0
March	0	0	1158	111	28	8	0
April	0	0	723	62	0	0	0
May	38	2	281	21	0	0	0
June	184	9	53	4	0	0	0
July	393	18	13	1	0	0	0
August	389	17	16	1	0	0	0
September	225	10	137	11	0	0	0
October	30	1	529	42	0	0	0
November	0	0	979	87	0	0	0
December	0	0	1465	147	62	18	0
Total	1259	56	8206	789	357	105	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 65 RDC Bureau 160 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:30 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1446	159	201	59	0
February	0	0	1388	142	54	16	0
March	0	0	1152	111	27	8	0
April	0	0	718	61	0	0	0
May	38	2	279	21	0	0	0
June	182	8	52	4	0	0	0
July	385	17	13	1	0	0	0
August	381	17	16	1	0	0	0
September	220	9	137	10	0	0	0
October	30	1	525	42	0	0	0
November	0	0	969	87	0	0	0
December	0	0	1453	146	59	17	0
Total	1237	55	8148	785	342	100	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 66 RDC Bureau 161 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1439	158	195	57	0
February	0	0	1383	142	52	15	0
March	0	0	1156	111	26	8	0
April	0	0	723	62	0	0	0
May	33	1	286	22	0	0	0
June	162	8	55	4	0	0	0
July	349	16	13	1	0	0	0
August	352	15	17	1	0	0	0
September	204	9	139	11	0	0	0
October	28	1	527	42	0	0	0
November	0	0	964	86	0	0	0
December	0	0	1445	145	56	17	0
Total	1129	50	8147	786	329	96	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 67 RDC Poste1 163 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

12:31 PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1182	133	25	7	0
February	0	0	1052	109	2	1	0
March	0	0	925	90	0	0	0
April	0	0	565	48	0	0	0
May	0	0	189	14	0	0	0
June	0	0	20	2	0	0	0
July	9	0	3	0	0	0	0
August	7	0	1	0	0	0	0
September	1	0	72	6	0	0	0
October	0	0	411	33	0	0	0
November	0	0	724	65	0	0	0
December	0	0	1083	111	4	1	0
Total	17	1	6227	610	31	9	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 68 RDC Poste2 162 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1492	162	222	65	0
February	0	0	1446	146	64	19	0
March	0	0	1233	117	31	9	0
April	0	0	780	66	0	0	0
May	19	1	315	24	0	0	0
June	119	6	65	5	0	0	0
July	276	13	15	1	0	0	0
August	278	12	20	1	0	0	0
September	162	7	151	12	0	0	0
October	22	1	559	45	0	0	0
November	0	0	1012	90	0	0	0
December	0	0	1504	150	67	20	0
Total	877	39	8591	819	385	113	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 69 RDC Salle Com. 173 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	8489	1043	69	20	0
February	0	0	7394	839	1	0	0
March	0	0	6312	667	0	0	0
April	0	0	3575	332	0	0	0
May	2	0	1070	88	0	0	0
June	307	14	101	8	0	0	0
July	964	42	16	1	0	0	0
August	512	22	7	1	0	0	0
September	127	5	494	41	0	0	0
October	0	0	2741	237	0	0	0
November	0	0	5029	490	0	0	0
December	0	0	7678	857	6	2	0
Total	1912	84	42906	4606	75	22	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 70 RDC salle commune 175 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1243	156	16	5	0
February	0	0	1104	124	0	0	0
March	2	0	857	89	0	0	0
April	7	0	463	41	0	0	0
May	85	3	140	11	0	0	0
June	282	11	9	1	0	0	0
July	580	22	1	0	0	0	0
August	539	20	0	0	0	0	0
September	340	12	33	3	0	0	0
October	61	2	319	26	0	0	0
November	4	0	691	65	0	0	0
December	0	0	1169	130	2	1	0
Total	1898	71	6029	645	18	5	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 71 RDC SOINS 167 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Unit Htg Input (kWh)	Central Unit Aux. Htg. Load (kBTU)	Central Unit Aux. Htg. Input (kWh)	Supply Fan (kWh)
January	0	0	1924	197	727	213	0
February	0	0	1939	186	364	107	0
March	0	0	1866	169	125	37	0
April	0	0	1141	94	0	0	0
May	5	0	391	29	0	0	0
June	132	6	68	5	0	0	0
July	346	15	15	1	0	0	0
August	184	8	27	2	0	0	0
September	57	3	222	17	0	0	0
October	0	0	893	69	0	0	0
November	0	0	1569	133	7	2	0
December	0	0	2063	194	325	95	0
Total	725	32	12118	1096	1548	454	0

Air System Simulation Results (Table 2) :

Month	Air-to-Air Energy Recovery (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Total	0	0	0

Monthly Simulation Results for 72 SAS/Corridor CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Preheat Coil Load (kBTU)	Preheat Coil Input (kWh)	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Terminal Heating Coil Load (kBTU)	Terminal Heating Coil Input (kWh)	Supply Fan (kWh)
January	45	13	130	9	31070	9106	0
February	143	42	52	4	26462	7755	0
March	473	139	80	6	20575	6030	0
April	218	64	271	19	10876	3187	0
May	7	2	628	44	3522	1032	0
June	0	0	712	49	622	182	0
July	0	0	789	53	181	53	0
August	0	0	775	52	335	98	0
September	6	2	663	46	1946	570	0
October	7	2	465	33	9457	2772	0
November	6	2	276	20	18166	5324	0
December	8	2	118	9	28658	8399	0
Total	914	268	4959	343	151872	44509	0

Air System Simulation Results (Table 2) :

Month	Lighting (kWh)	Electric Equipment (kWh)
January	0	0
February	0	0
March	0	0
April	0	0
May	0	0
June	0	0
July	0	0
August	0	0
September	0	0
October	0	0
November	0	0
December	0	0
Total	0	0

Monthly Simulation Results for 73 169/ 170 / Corridor 100 et 2E HALL 170 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Preheat Coil Load (kBTU)	Preheat Coil Input (kWh)	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Terminal Heating Coil Load (kBTU)	Terminal Heating Coil Input (kWh)	Supply Fan (kWh)
January	4975	1458	0	0	7728	2265	0
February	4581	1343	0	0	6518	1910	0
March	3688	1081	0	0	5961	1747	0
April	1516	444	117	9	4338	1271	0
May	154	45	1272	99	2246	658	0
June	3	1	3109	239	686	201	0
July	0	0	4555	343	207	61	0
August	1	0	4280	314	332	97	0
September	88	26	2152	165	1187	348	0
October	657	192	451	35	3829	1122	0
November	2331	683	39	3	5240	1536	0
December	4552	1334	0	0	6921	2028	0
Total	22546	6608	15977	1208	45194	13245	0

Air System Simulation Results (Table 2) :

Month	Lighting (kWh)	Electric Equipment (kWh)
January	0	0
February	0	0
March	0	0
April	0	0
May	0	0
June	0	0
July	0	0
August	0	0
September	0	0
October	0	0
November	0	0
December	0	0
Total	0	0

Monthly Simulation Results for 74 RDC Passage couvert 176 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Preheat Coil Load (kBTU)	Preheat Coil Input (kWh)	Central Cooling Coil Load (kBTU)	Central Unit Clg Input (kWh)	Terminal Heating Coil Load (kBTU)	Terminal Heating Coil Input (kWh)	Supply Fan (kWh)
January	49	14	7397	586	27624	8096	0
February	62	18	7532	596	24807	7270	0
March	96	28	6764	533	18296	5362	0
April	49	14	5704	446	9719	2848	0
May	3	1	7816	603	3716	1089	0
June	0	0	10112	810	961	282	0
July	0	0	13531	1091	373	109	0
August	0	0	12040	944	606	177	0
September	1	0	9194	701	2413	707	0
October	14	4	4941	384	7940	2327	0
November	31	9	6010	480	16469	4826	0
December	30	9	8201	652	27159	7960	0
Total	335	98	99243	7825	140082	41054	0

Air System Simulation Results (Table 2) :

Month	Lighting (kWh)	Electric Equipment (kWh)
January	0	0
February	0	0
March	0	0
April	0	0
May	0	0
June	0	0
July	0	0
August	0	0
September	0	0
October	0	0
November	0	0
December	0	0
Total	0	0

Monthly Simulation Results for 75 2E ESC1 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	404	118	0	0	0
February	342	100	0	0	0
March	190	56	0	0	0
April	55	16	0	0	0
May	8	2	0	0	0
June	0	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	0	0	0	0	0
October	68	20	0	0	0
November	227	67	0	0	0
December	412	121	0	0	0
Total	1707	500	0	0	0

Monthly Simulation Results for 76 2E ESC2 / 2E Rang. 255 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	387	113	0	0	0
February	336	99	0	0	0
March	183	54	0	0	0
April	47	14	0	0	0
May	7	2	0	0	0
June	0	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	0	0	0	0	0
October	60	18	0	0	0
November	215	63	0	0	0
December	402	118	0	0	0
Total	1637	480	0	0	0

Monthly Simulation Results for 77 2E ESC3 et 2E Rang. 254 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	432	127	0	0	0
February	357	105	0	0	0
March	175	51	0	0	0
April	27	8	0	0	0
May	3	1	0	0	0
June	0	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	0	0	0	0	0
October	52	15	0	0	0
November	224	66	0	0	0
December	436	128	0	0	0
Total	1706	500	0	0	0

Monthly Simulation Results for 78 2E Rang. 256 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	10	3	0	0	0
February	10	3	0	0	0
March	1	0	0	0	0
April	0	0	0	0	0
May	0	0	0	0	0
June	0	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	0	0	0	0	0
October	0	0	0	0	0
November	5	1	0	0	0
December	16	5	0	0	0
Total	42	12	0	0	0

Monthly Simulation Results for 79 3E ESC1 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	399	117	0	0	0
February	339	99	0	0	0
March	187	55	0	0	0
April	54	16	0	0	0
May	8	2	0	0	0
June	0	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	0	0	0	0	0
October	69	20	0	0	0
November	226	66	0	0	0
December	409	120	0	0	0
Total	1691	496	0	0	0

Monthly Simulation Results for 80 3E ESC2 350 / 3E Rang. 355 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	383	112	0	0	0
February	334	98	0	0	0
March	181	53	0	0	0
April	46	13	0	0	0
May	7	2	0	0	0
June	0	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	0	0	0	0	0
October	60	18	0	0	0
November	215	63	0	0	0
December	400	117	0	0	0
Total	1626	477	0	0	0

Monthly Simulation Results for 81 3E ESC3 / 3E Rang. 354 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	423	124	0	0	0
February	351	103	0	0	0
March	171	50	0	0	0
April	25	7	0	0	0
May	2	1	0	0	0
June	0	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	0	0	0	0	0
October	52	15	0	0	0
November	222	65	0	0	0
December	431	126	0	0	0
Total	1676	491	0	0	0

Monthly Simulation Results for 82 3E Rang. 356 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	7	2	0	0	0
February	8	2	0	0	0
March	1	0	0	0	0
April	0	0	0	0	0
May	0	0	0	0	0
June	0	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	0	0	0	0	0
October	0	0	0	0	0
November	4	1	0	0	0
December	14	4	0	0	0
Total	34	10	0	0	0

Monthly Simulation Results for 83 4E ESC1 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	669	196	0	0	0
February	568	166	0	0	0
March	367	108	0	0	0
April	158	46	0	0	0
May	27	8	0	0	0
June	0	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	7	2	0	0	0
October	153	45	0	0	0
November	393	115	0	0	0
December	662	194	0	0	0
Total	3006	881	0	0	0

Monthly Simulation Results for 84 4E ESC2 / 4E Conciergerie 455 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	709	208	0	0	0
February	609	179	0	0	0
March	398	117	0	0	0
April	170	50	0	0	0
May	30	9	0	0	0
June	0	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	6	2	0	0	0
October	159	47	0	0	0
November	416	122	0	0	0
December	711	208	0	0	0
Total	3206	940	0	0	0

Monthly Simulation Results for 85 4E ESC3 / 4E Rang. 454 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	1015	298	0	0	0
February	848	248	0	0	0
March	553	162	0	0	0
April	222	65	0	0	0
May	35	10	0	0	0
June	0	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	5	1	0	0	0
October	220	65	0	0	0
November	582	171	0	0	0
December	987	289	0	0	0
Total	4467	1309	0	0	0

Monthly Simulation Results for 86 4E Rang. 456 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	183	53	0	0	0
February	151	44	0	0	0
March	90	26	0	0	0
April	23	7	0	0	0
May	3	1	0	0	0
June	0	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	0	0	0	0	0
October	29	9	0	0	0
November	95	28	0	0	0
December	175	51	0	0	0
Total	750	220	0	0	0

Monthly Simulation Results for 87 RDC EAU CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	276	81	0	0	0
February	245	72	0	0	0
March	208	61	0	0	0
April	117	34	0	0	0
May	27	8	0	0	0
June	0	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	0	0	0	0	0
October	52	15	0	0	0
November	135	40	0	0	0
December	226	66	0	0	0
Total	1285	377	0	0	0

Monthly Simulation Results for 88 RDC ESC1 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	1192	349	0	0	0
February	1060	311	0	0	0
March	833	244	0	0	0
April	472	138	0	0	0
May	116	34	0	0	0
June	3	1	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	8	2	0	0	0
October	231	68	0	0	0
November	614	180	0	0	0
December	1054	309	0	0	0
Total	5583	1636	0	0	0

Monthly Simulation Results for 89 RDC ESC2 / RDC Conciergerie 155 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	1250	366	0	0	0
February	1130	331	0	0	0
March	934	274	0	0	0
April	547	160	0	0	0
May	152	45	0	0	0
June	4	1	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	5	2	0	0	0
October	223	65	0	0	0
November	611	179	0	0	0
December	1086	318	0	0	0
Total	5940	1741	0	0	0

Monthly Simulation Results for 90 RDC ESC3 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	1210	355	0	0	0
February	1070	314	0	0	0
March	858	251	0	0	0
April	488	143	0	0	0
May	122	36	0	0	0
June	3	1	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	8	2	0	0	0
October	248	73	0	0	0
November	632	185	0	0	0
December	1064	312	0	0	0
Total	5702	1671	0	0	0

Monthly Simulation Results for 91 RDC Méc 154 CPT

(In Alternative: b) Alternative CPT)

Project: 25845 142 logements Jardins de la Yamaska St-Hyacin...

03/02/2026

Prepared by: Groupe CMI

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Air System Simulation Results (Table 1) :

Month	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Lighting (kWh)	Electric Equipment (kWh)
January	185	54	0	0	0
February	154	45	0	0	0
March	93	27	0	0	0
April	30	9	0	0	0
May	6	2	0	0	0
June	0	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	0	0	0	0	0
October	9	3	0	0	0
November	63	18	0	0	0
December	137	40	0	0	0
Total	677	198	0	0	0