



Le Groupe CMI Experts-Conseils inc.

540 Jarry, Ste-Marie-Madeleine, Qc J0H1S0,
Tél: 450-250-2988, Fax: 450-250-2989,
info@groupecmi.com

RAPPORT DE COMPARAISON ÉNERGÉTIQUE

Sainte-Marie-Madeleine, 24 février 2026

| | |
|---|--|
| Bâtiments | 17035 Boul. Henri-Bourassa, Québec, QC G1G 4A6 |
| Client | Espace Orsainville SEC |
| Ingénieurs-conseils et rédacteur | Le groupe CMI experts-conseils Inc. 540 Jarry Ste-Marie-Madeleine, (Québec) J0H 1S0 |
| Architecte | N/A |
| Dossier | 26919 |

1 OBJECTIF

- 1.1 Ce rapport énonce les différences énergétiques des bâtiments tel qu'ils ont été construits versus une rénovation 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 propriété existante.

2 EXPLICATIF

- 2.1 Les simulations utilisent les données météorologiques de l'ASHRAE (fichier de données venant de QC – Québec – 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 d'estimer les résistances thermiques des composantes architecturales et les spécifications des

systèmes électromécaniques des bâtiments tel qu'ils ont été construits. 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.

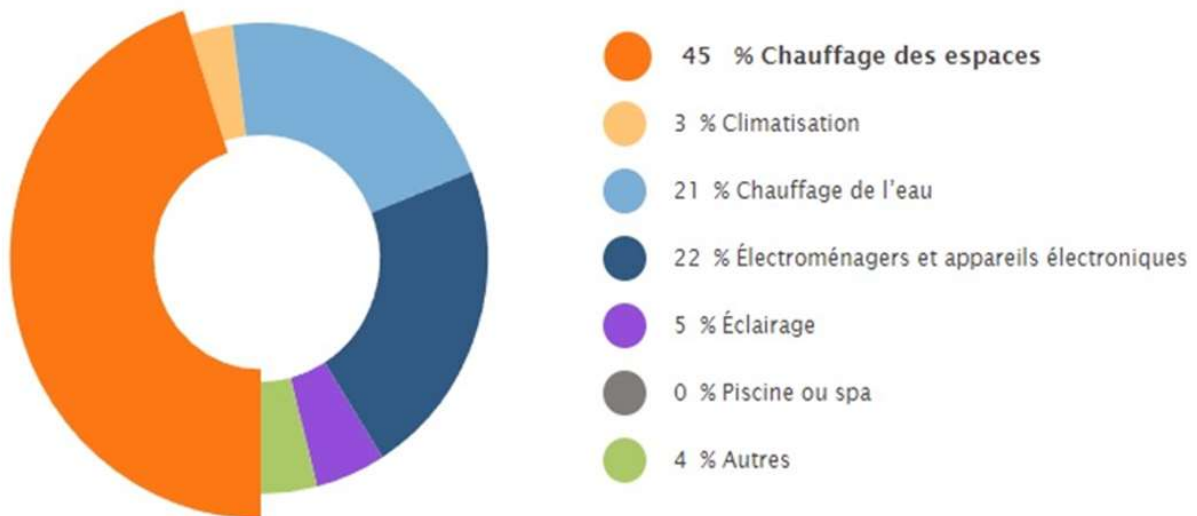
2.4 Dans la section **CONSOMMATION ET COÛTS**, il est indiqué le résultat des simulations au niveau de la consommation électrique et du coût monétaire totale annuelle pour le chauffage, la climatisation et le conditionnement de l'air.

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 existante qui contient cinq niveaux dont un sous-sol. Ce dernier est un garage souterrain. Suite au sous-sol, les quatre niveaux suivants contiennent chacun huit logements. Pour un total de trente-deux logements.

Les couloirs et les SAS ne sont pas ventilés.

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) |
|------------------------------------|---|---------------|-----------------|--------------------------|
| 17035 Boul. Henri-Bourassa, Québec | 1 | 1 (Référence) | Murs extérieurs | 21.5 |
| | | | Murs fondation | 17 |
| | | | Toit | 31 |
| | | | Dalle | 2 |
| | | 2 (Concept) | Murs extérieurs | 21.5 |
| | | | Murs fondation | 17 |
| | | | Toit | 31 |
| | | | Dalle | 5 |

Tableau 2 : Spécifications des fenêtres et des portes

| Bâtiment | Nbr de bâtiments identiques où ces données s'appliquent | Simulation | Spécification | |
|------------------------------------|---|---------------|---------------|------|
| 17035 Boul. Henri-Bourassa, Québec | 1 | 1 (Référence) | U= | 0.3 |
| | | | SHGC = | 0.35 |
| | | 2 (Concept) | U = | 0.3 |
| | | | SHGC = | 0.35 |

Tableau 3 : Spécifications des thermopompes

| Bâtiment | Nbr de bâtiments identiques où ces données s'appliquent | Simulation | Spécification | Valeurs 9 MBH | Valeurs 12 MBH |
|------------------------------------|---|---------------|---------------|---------------|----------------|
| 17035 Boul. Henri-Bourassa, Québec | 1 | 1 (Référence) | SEER2 | N/A | 20.8 |
| | | | HSPF | N/A | N/A |
| | | | COP | N/A | N/A |
| | | | T (°F) min. | N/A | N/A |
| | | 2 (Concept) | SEER2 | 30.0 | 28 |
| | | | HSPF2 | 11.2 | 10 |
| | | | COP | 4.4 | 4.55 |
| | | | T (°F) min. | -22 | -22 |

Tableau 4 : Spécifications des échangeurs d'air

| Bâtiment | Nbr de bâtiments identiques où ces données s'appliquent | Simulation | Efficacité moyenne (%) | CFM | ° F |
|------------------------------------|---|---------------|------------------------|-----|-----|
| 17035 Boul. Henri-Bourassa, Québec | 1 | 1 (Référence) | 56 | 100 | 32 |
| | | 2 (Concept) | 56 | 100 | 32 |

Tableau 5 : Éclairage

| Bâtiment | Nbr de bâtiments identiques où ces données s'appliquent | Simulation | Type d'éclairage | Efficacité (Lumens/Watt) |
|------------------------------------|---|---------------|------------------|--------------------------|
| 17035 Boul. Henri-Bourassa, Québec | 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) |
|------------------------------------|---|---------------|---------------|
| 17035 Boul. Henri-Bourassa, Québec | 1 | 1 (Référence) | 2.5 |
| | | 2 (Concept) | 1.75 |

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) |
|------------------------------------|---|---------------|--------------------|
| 17035 Boul. Henri-Bourassa, Québec | 1 | 1 (Référence) | 251191 |
| | | 2 (Concept) | 125842 |

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 (\$) |
|------------------------------------|---|---------------|-----------|
| 17035 Boul. Henri-Bourassa, Québec | 1 | 1 (Référence) | 24550 |
| | | 2 (Concept) | 12299 |

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 (%) |
|------------------------------------|---|----------|
| 17035 Boul. Henri-Bourassa, Québec | 1 | 32.81 |

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

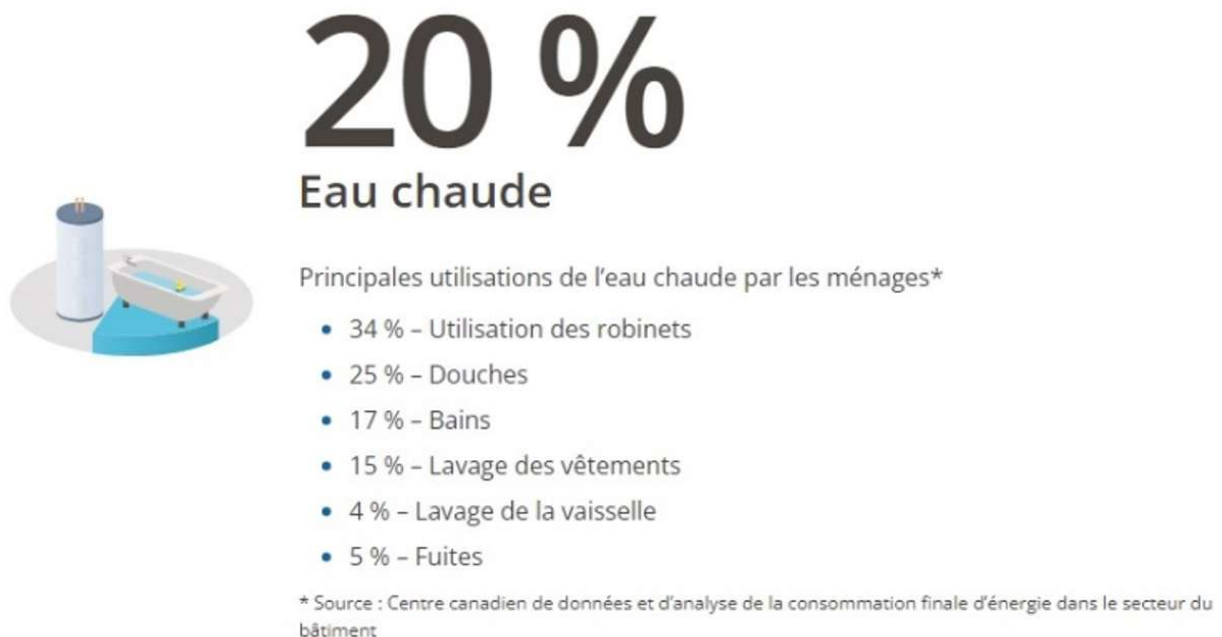


Tableau 9 : Diminution de la charge énergétique des appareils de plomberie selon le débit

| 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 (%) |
|------------------------------------|---|----------|
| 17035 Boul. Henri-Bourassa, Québec | 1 | 8.22 |

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 (%) |
|------------------------------------|---|----------|
| 17035 Boul. Henri-Bourassa, Québec | 1 | N/A |

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 (%) |
|------------------------------------|---|----------|
| 17035 Boul. Henri-Bourassa, Québec | 1 | 41.03 |

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 | $\frac{100}{48}$ | 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 :

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

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

Résultats :

| Bâtiment | Nbr de bâtiments identiques où ces résultats s'appliquent | Simulation 1 de Référence (KWH) | Simulation 2 de Concept (KWH) |
|------------------------------------|---|---------------------------------|-------------------------------|
| 17035 Boul. Henri-Bourassa, Québec | 1 | 523315 | 308591 |

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 :

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

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

Résultats :

| Bâtiment | Nbr de bâtiments identiques où ces résultats s'appliquent | Simulation 1 de Référence (KWH) | Simulation 2 de Concept(KWH) |
|------------------------------------|---|---------------------------------|------------------------------|
| 17035 Boul. Henri-Bourassa, Québec | 1 | 104663 | 73264 |

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) |
|------------------------------------|---|---------------------------------|-------------------------------|
| 17035 Boul. Henri-Bourassa, Québec | 1 | 26166 | 26166 |

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 :

$$\text{Simulation 1 : } \frac{A(\text{KWH}) \times 34.5 \text{ g de CO}_2/\text{KWH}}{1000000} = B(T)$$

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

Résultat :

| Bâtiment | Nbr de bâtiments identiques où ces résultats s'appliquent | GES Simulation 1 de Référence (T) | GES Simulation 2 de Concept (T) |
|------------------------------------|---|-----------------------------------|---------------------------------|
| 17035 Boul. Henri-Bourassa, Québec | 1 | 18.1 | 10.6 |

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 :

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

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

Résultats :

| Bâtiment | Nbr de bâtiments identiques où ces résultats s'appliquent | Consommation Simulation 1 de Référence (GJ) | Consommation Simulation 2 de Concept (GJ) |
|------------------------------------|---|---|---|
| 17035 Boul. Henri-Bourassa, Québec | 1 | 1884 | 1111 |

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. | 17035 Boul. Henri-Bourassa, Québec | 1 | 251191 | 125842 | 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. | 17035 Boul. Henri-Bourassa, Québec | 1 | 523315 | 308591 | 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. | 17035 Boul. Henri-Bourassa, Québec | 1 | 104663 | 73264 | 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. | 17035 Boul. Henri-Bourassa, Québec | 1 | 26166 | 26166 | 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 x 100 |
|--|---------------------|---------------------------|--|
| Consommation d'énergie annuelle totale (GJ/année) | 1111 | 1884 | 41.03 |
| Émissions de gaz à effet de serre annuelles totales (nombre de tonnes d'équivalent CO2 par année) | 10.6 | 18.1 | 41.03 |

7 CONCLUSION

- 7.1 La rénovation 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 à la performance énergétique de la propriété existante. Le projet est donc conforme aux demandent de l'APH-Select Niveau 3 pour une propriété existante.

- 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 |
|--|--------------------------------|----------------------------------|---------------|---------|-------------|--------------------------------------|
| 17035 Boul. Henri-Bourassa, Québec | 1 | Résistance Thermique (R) | | | | Idem |
| | | Murs extérieurs | Murs sous-sol | Toiture | Dalle | |
| | | 21.5 | 17 | 31 | 5 | |
| | | Échangeur d'air | | | | Idem |
| | | Efficacité = | 56 | CFM = | 100 | |
| | | Thermopompes | | | | Améliorée |
| | | MBH | SEER2 | COP | T (°F) Min. | |
| | | 9 | 30.0 | 4.4 | -22 | |
| | | 12 | 28 | 4.55 | -22 | |
| | | 18 | N/A | N/A | N/A | |
| | | 24 | N/A | N/A | N/A | |
| | | Fenêtres et Porte Vitrées | | | | Idem |
| | | U = | 0.3 | SC = | 0.35 | |
| | | Débit des appareils de plomberie | | | | Amélioré |
| | | USGPM = | 1.75 | | | |
| | | 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 | Logements 101, 102, 103, 106, 107, 201, 202, 203, 206, 207, 301, 302, 303, 306, 307, 402, 403, 406 | 9 | 30 | 4.4 | -22 |
| | Logements 104, 105, 108, 204, 205, 208, 304, 305, 308, 401, 404, 405, 407, 408 | 12 | 28 | 4.55 | -22 |
| | 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 |

7.3 Sceau de l'ingénieur

Approuvé par Charles Morissette ing.

CM/cm



Design Weather Parameters

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:36 AM

Design Parameters:

Location **Quebec City Beauport, QC, Canada**
 Latitude **46.84** °N (+ : north, - : south)
 Longitude **-71.20** °E (+ : east, - : west)
 Elevation **33.0** 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 **85.9** F
 Summer Coincident Wet-Bulb **70.0** F
 Summer Daily Range **16.8** 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 **Beauport (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 | 17.3 | 17.3 | 17.3 | 83.3 | 153.0 | 218.6 | 260.1 | 282.5 | 289.1 |
| February | 23.4 | 23.4 | 52.4 | 131.6 | 198.1 | 250.6 | 279.0 | 290.3 | 289.3 |
| March* | 29.6 | 31.8 | 106.3 | 170.9 | 228.8 | 261.3 | 272.8 | 267.8 | 261.3 |
| April* | 33.2 | 88.0 | 153.5 | 211.2 | 246.8 | 256.1 | 242.9 | 224.3 | 214.5 |
| May* | 56.8 | 118.9 | 184.9 | 225.0 | 247.5 | 238.4 | 215.6 | 186.3 | 174.4 |
| June* | 65.2 | 125.5 | 184.4 | 218.2 | 236.5 | 224.3 | 197.5 | 168.2 | 155.0 |
| July* | 51.6 | 113.6 | 170.8 | 212.2 | 232.7 | 227.8 | 204.4 | 179.2 | 166.2 |
| August* | 32.4 | 82.4 | 140.1 | 198.0 | 229.3 | 240.9 | 229.6 | 212.2 | 202.3 |
| September* | 27.3 | 37.0 | 96.9 | 163.4 | 207.9 | 243.0 | 250.4 | 245.9 | 241.9 |
| October* | 21.2 | 21.2 | 52.5 | 114.6 | 179.5 | 226.3 | 254.5 | 263.7 | 265.4 |
| November | 16.3 | 16.3 | 17.3 | 76.5 | 141.9 | 199.6 | 240.9 | 263.8 | 269.9 |
| December | 15.3 | 15.3 | 15.3 | 57.5 | 122.0 | 184.1 | 229.0 | 255.5 | 265.4 |
| Month | SSW | SW | WSW | W | WNW | NW | NNW | HOR | Mult |
| January | 282.5 | 261.7 | 217.0 | 155.5 | 79.4 | 19.1 | 17.3 | 124.6 | 1.00 |
| February | 289.9 | 278.3 | 251.0 | 197.3 | 131.9 | 50.7 | 23.4 | 176.7 | 1.00 |
| March* | 267.0 | 272.1 | 258.3 | 230.0 | 170.9 | 105.3 | 34.1 | 227.8 | 1.00 |
| April* | 224.6 | 245.6 | 255.8 | 246.0 | 210.6 | 156.2 | 83.0 | 269.1 | 1.00 |
| May* | 187.5 | 217.0 | 241.6 | 243.9 | 228.5 | 181.9 | 122.9 | 289.5 | 1.00 |
| June* | 169.0 | 199.2 | 226.6 | 233.6 | 222.4 | 180.5 | 128.3 | 289.8 | 1.00 |
| July* | 179.6 | 206.2 | 228.7 | 229.7 | 213.9 | 168.6 | 114.3 | 279.4 | 1.00 |
| August* | 212.2 | 231.1 | 240.1 | 229.7 | 196.8 | 145.1 | 78.5 | 255.8 | 1.00 |
| September* | 243.8 | 248.6 | 241.7 | 212.0 | 162.5 | 95.6 | 36.6 | 212.0 | 1.00 |
| October* | 263.8 | 254.6 | 226.0 | 179.8 | 114.0 | 52.7 | 21.2 | 159.5 | 1.00 |
| November | 263.8 | 241.2 | 199.1 | 142.4 | 76.1 | 17.9 | 16.3 | 115.6 | 1.00 |
| December | 257.6 | 229.3 | 183.3 | 121.4 | 58.3 | 15.3 | 15.3 | 100.1 | 1.00 |

Mult. = User-defined solar multiplier factor.

* : Daylight Saving Month

building1

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC
Prepared by: Groupe CMI

02/23/2026
11:36 AM

1. General Information

Building building1
Default Level-to-Level Height 9' 8 1/8"
Default Ceiling Space Yes
Default Floor-to-Ceiling Height 8' 2 1/8"
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) |
|--|-------------------------|-----------|------------------|
| 2016-10-06 Espace Orsainville.pdf (01) | - | - | |
| 2016-10-06 Espace Orsainville.pdf (02) | - | - | |
| 2016-10-06 Espace Orsainville.pdf (03) | - | - | |
| 2016-10-06 Espace Orsainville.pdf (08) | - | - | |
| 38 | 0.0 | - | |
| Niveau 2 et 3 | 38.0 | 1/8" = 1' | 2E, 3E |
| Niveau 4 | 38.0 | 1/8" = 1' | 4E |
| RDC | 38.0 | 1/8" = 1' | RDC |
| SOUS-SOL | 38.0 | 1/8" = 1' | SS |

building1

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC

Prepared by: Groupe CMI

02/23/2026

11:36 AM

2016-10-06 Espace Orsainville.pdf (02):

PROJET: ESPACE ORSAINVILLE
 17035 BOULEVARD HENRI-BOURASSA
 QUÉBEC (QC) G1H 1R5
 DATE: 2016-10-06
 ÉCHELLE: 1/50
 DÉSIGNATION: ÉLEVATIONS AVANT ET DROITE
 RÉVISÉ PAR: G. MILLET
 APPRUVÉ PAR: G. MILLET
 G. MILLET ARCHITECTES INC.
 1000 AVENUE DE LA SÉCURITÉ
 QUÉBEC (QC) G1H 1R5
 TEL: 514 354-1111
 WWW.GMILLET.COM

G. MILLET
ARCHITECTES

PROJET: ESPACE ORSAINVILLE
 17035 BOULEVARD HENRI-BOURASSA
 QUÉBEC (QC) G1H 1R5
 DATE: 2016-10-06
 ÉCHELLE: 1/50
 DÉSIGNATION: ÉLEVATIONS AVANT ET DROITE
 RÉVISÉ PAR: G. MILLET
 APPRUVÉ PAR: G. MILLET
 G. MILLET ARCHITECTES INC.
 1000 AVENUE DE LA SÉCURITÉ
 QUÉBEC (QC) G1H 1R5
 TEL: 514 354-1111
 WWW.GMILLET.COM

ESPACE ORSAINVILLE
 17 035 BOULEVARD
 HENRI-BOURASSA

ÉLEVATIONS AVANT ET
 DROITE

ÉCHELLE: 1/50

DATE: 2016-10-06

DÉSIGNATION: ÉLEVATIONS AVANT ET DROITE

RÉVISÉ PAR: G. MILLET

APPRUVÉ PAR: G. MILLET

G. MILLET ARCHITECTES INC.

1000 AVENUE DE LA SÉCURITÉ
 QUÉBEC (QC) G1H 1R5
 TEL: 514 354-1111
 WWW.GMILLET.COM

building1

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC

Prepared by: Groupe CMI

02/23/2026

11:36 AM

2016-10-06 Espace Orsainville.pdf (03):



building1

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC

Prepared by: Groupe CMI

02/23/2026

11:36 AM

2016-10-06 Espace Orsainville.pdf (08):

ESPACE ORSAINVILLE
17 035 BOULEVARD
HENRI-BOURASSA

NIVEAU TOIT

ESPACE ORSAINVILLE
17 035 BOULEVARD
HENRI-BOURASSA

DATE: 2016-08-23
PROJET: ESPACE ORSAINVILLE - BOURASSA - JALOUSSIE

SCALE: 1/50

building1

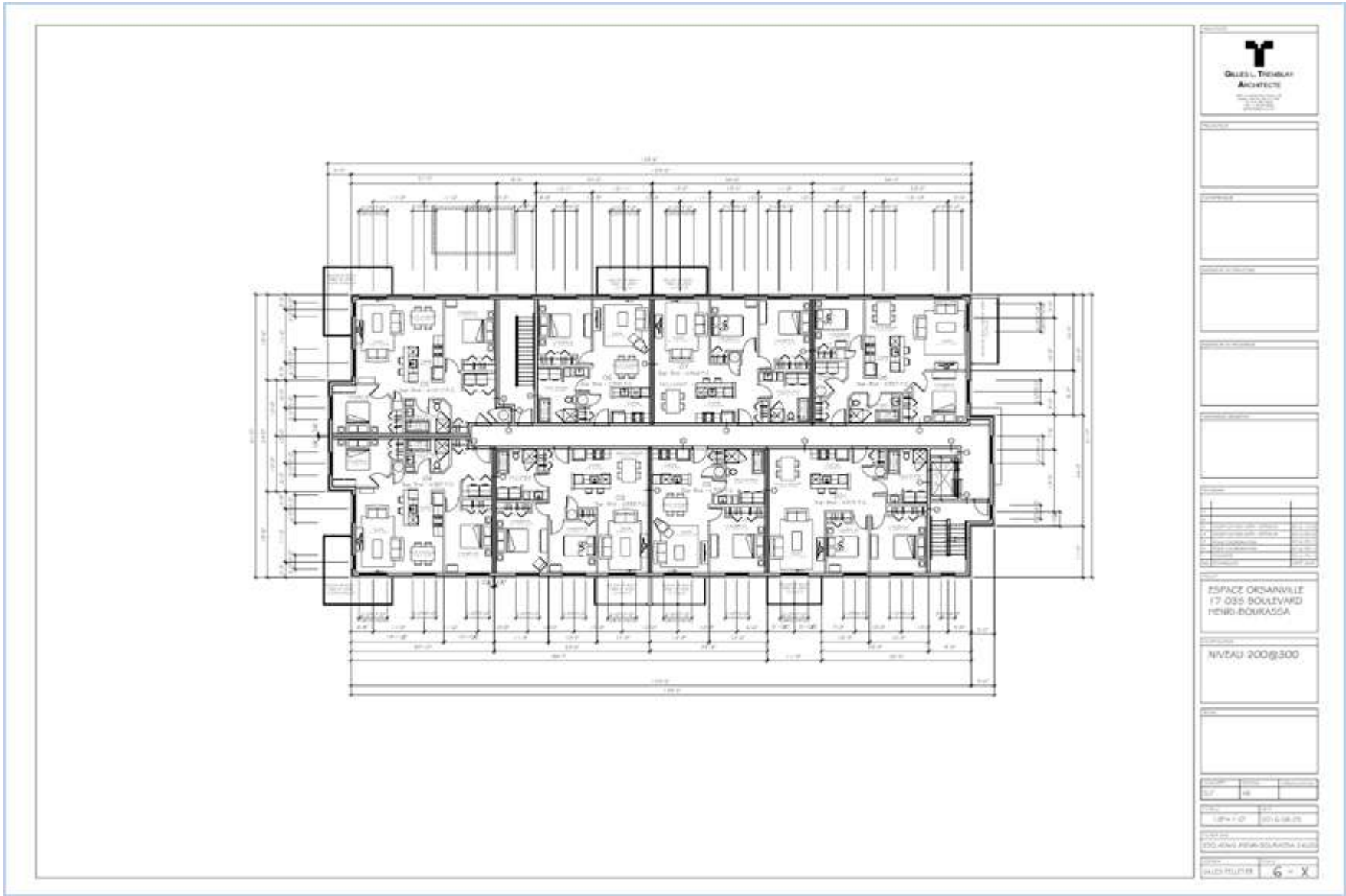
Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC

Prepared by: Groupe CMI

02/23/2026

11:36 AM

Niveau 2 et 3:



building1

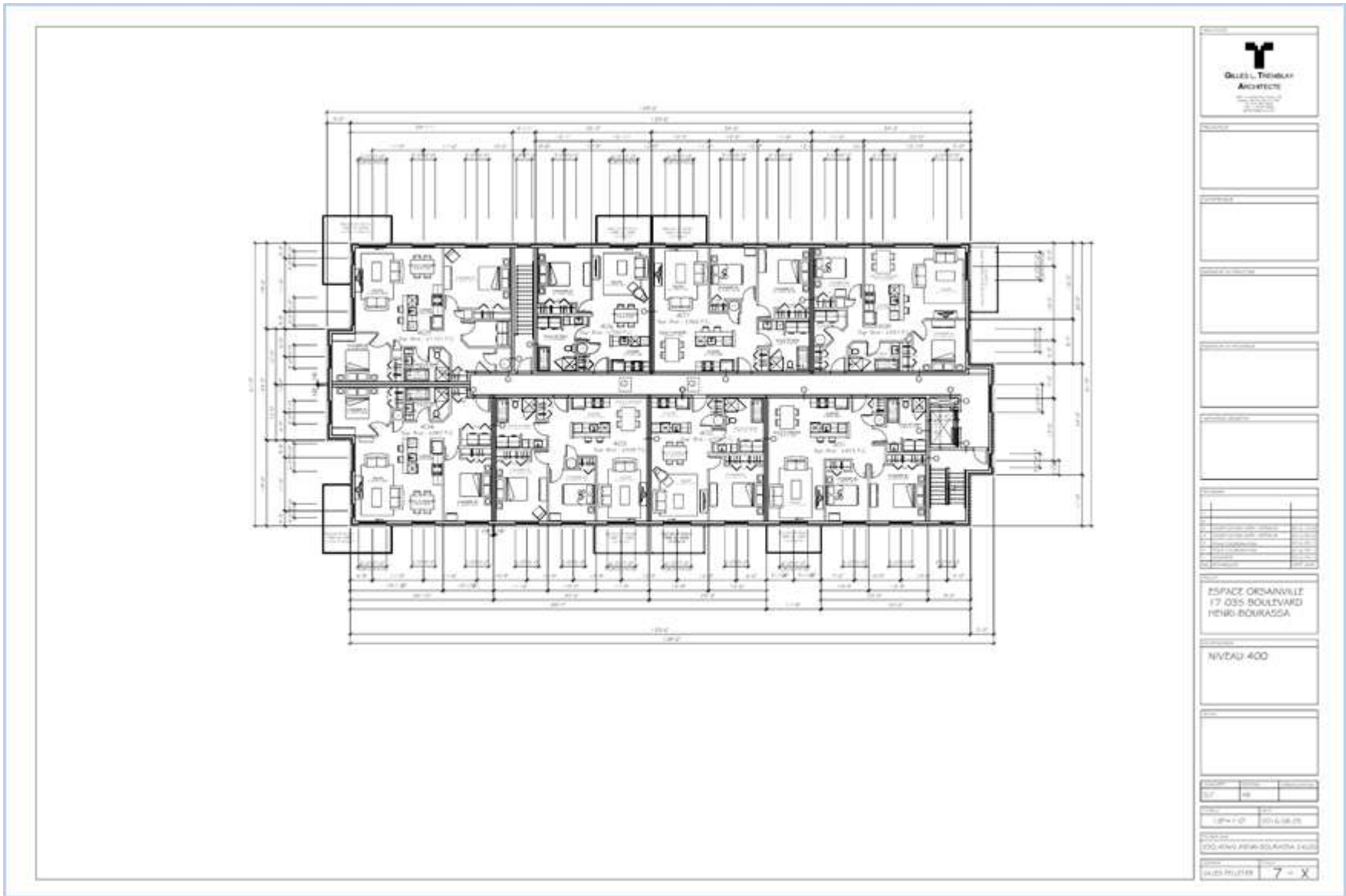
Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC

Prepared by: Groupe CMI

02/23/2026

11:36 AM

Niveau 4:



building1

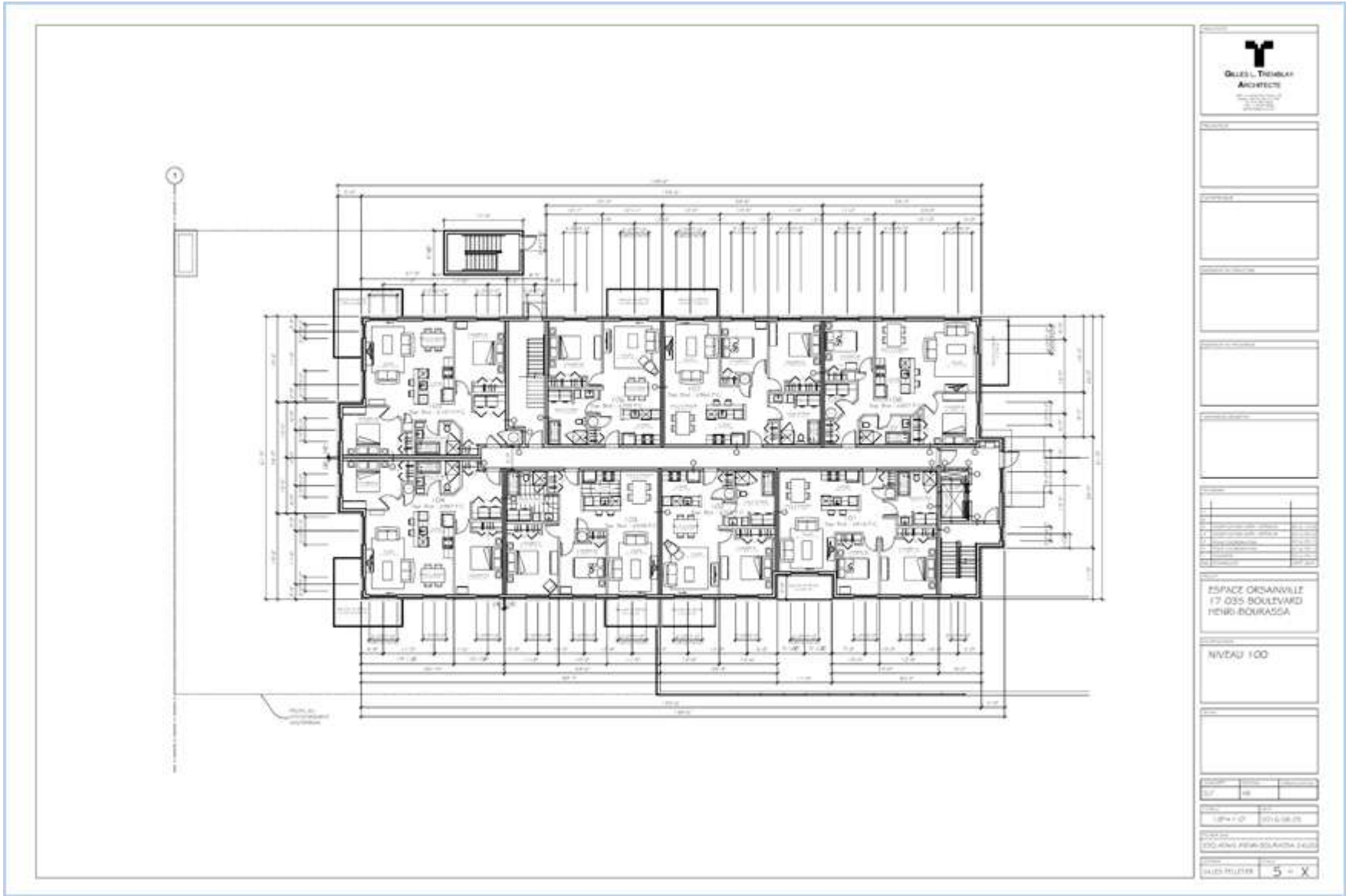
Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC

Prepared by: Groupe CMI

02/23/2026

11:36 AM

RDC:



building1

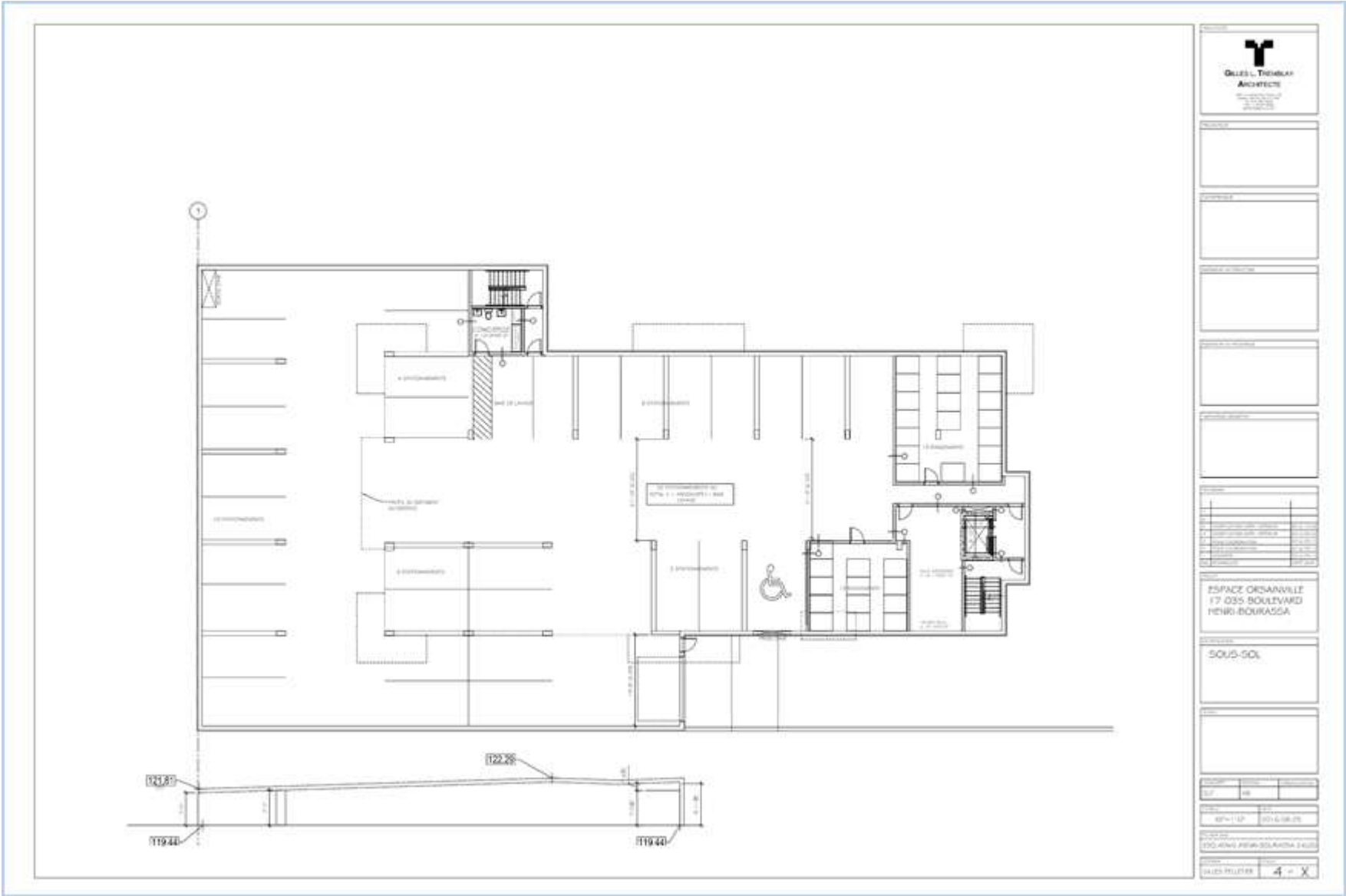
Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC

Prepared by: Groupe CMI

02/23/2026

11:36 AM

SOUS-SOL:



building1

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC
 Prepared by: Groupe CMI

02/23/2026
 11:36 AM

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 | 9' 8 1/8" | 8' 1 1/4" | 1' 6" | - | Niveau 4 |
| 3E | Above 2E | No | 9' 8 1/8" | 8' 2 1/8" | 1' 6" | - | Niveau 2 et 3 |
| 2E | Above RDC | No | 9' 8 1/8" | 8' 2 1/8" | 1' 6" | - | Niveau 2 et 3 |
| RDC | At-grade | No | 9' 8 1/8" | 8' 2 1/8" | 1' 6" | - | RDC |
| SS | Below RDC | Yes | 9' 3" | 8' 2 1/8" | 1' 6" | - | SOUS-SOL |

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 | 11 | 8164.5 | 78943.9 | 7750.3 | 3929.9 |
| 3E | 11 | 8165.3 | 79044.4 | 7880.7 | 3931.3 |
| 2E | 2 | 8165.6 | 79047.9 | 3896.9 | 3929.9 |
| RDC | 3 | 8102.0 | 78464.0 | 3979.1 | 4028.8 |
| SS | 3 | 13964.1 | 123022.2 | 860.4 | 5128.0 |
| Total | 30 | 46561.5 | 438522.3 | 24367.4 | 20948.0 |

4.2. Building Summary (Roof Levels)

| Level | Section Count | Total Roof Area (sqft) | Heat Transfer Area (sqft) | Exterior Wall Gross Area (sqft) |
|---------------|---------------|------------------------|---------------------------|---------------------------------|
| Implied Roofs | 12 | 8215.8 | 8215.8 | 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 | 954.9 | 7733.8 | 727.8 | 280.1 | No | 8' 1 1/4" | - | |

building1

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC
 Prepared by: Groupe CMI

02/23/2026
 11:36 AM

| 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 | 695.4 | 5641.3 | 652.1 | 204.3 | No | 8' 1 1/4" | - | |
| 4E 403 | 927.0 | 7509.0 | 719.7 | 271.9 | No | 8' 1 1/4" | - | |
| 4E 404 | 969.7 | 7854.1 | 533.5 | 533.4 | No | 8' 1 1/4" | - | |
| 4E 405 | 1080.4 | 8751.0 | 565.9 | 565.9 | No | 8' 1 1/4" | - | |
| 4E 406 | 691.2 | 5598.9 | 650.8 | 202.6 | No | 8' 1 1/4" | - | |
| 4E 407 | 951.8 | 7709.1 | 727.1 | 278.9 | No | 8' 1 1/4" | - | |
| 4E 408 | 930.2 | 7534.2 | 509.9 | 483.4 | No | 8' 1 1/4" | - | |
| 4E Corridor | 654.8 | 5303.5 | 1931.3 | 186.9 | No | 8' 1 1/4" | - | |
| 4E ESC1 | 140.2 | 1136.6 | 489.3 | 41.1 | No | 8' 1 1/4" | - | |
| 4E ESC2 | 168.9 | 1367.9 | 243.0 | 243.0 | No | 8' 1 1/4" | - | |
| Ceiling/Floor Spaces | - | 12804.6 | - | 638.3 | - | - | - | |
| 3E | | | | | | | | |
| 3E 301 | 955.8 | 7813.6 | 734.9 | 283.0 | No | 8' 2 1/8" | - | |
| 3E 302 | 698.5 | 5710.2 | 658.7 | 206.8 | No | 8' 2 1/8" | - | |
| 3E 303 | 925.3 | 7564.0 | 725.8 | 274.0 | No | 8' 2 1/8" | - | |
| 3E 304 | 971.0 | 7938.0 | 538.7 | 538.7 | No | 8' 2 1/8" | - | |
| 3E 305 | 989.6 | 8089.9 | 598.8 | 540.2 | No | 8' 2 1/8" | - | |
| 3E 306 | 688.9 | 5631.5 | 656.1 | 203.8 | No | 8' 2 1/8" | - | |
| 3E 307 | 954.1 | 7799.8 | 734.5 | 282.2 | No | 8' 2 1/8" | - | |
| 3E 308 | 930.2 | 7604.2 | 514.7 | 488.0 | No | 8' 2 1/8" | - | |
| 3E Corridor | 654.8 | 5352.9 | 1949.2 | 188.7 | No | 8' 2 1/8" | - | |
| 3E ESC1 | 228.3 | 1866.3 | 524.0 | 71.7 | No | 8' 2 1/8" | - | |
| 3E ESC2 | 168.9 | 1380.7 | 245.3 | 245.3 | No | 8' 2 1/8" | - | |
| Ceiling/Floor Spaces | - | 12293.3 | - | 609.0 | - | - | - | |
| 2E | | | | | | | | |
| 2E Corridor | 654.8 | 5352.9 | 1948.5 | 188.6 | No | 8' 2 1/8" | - | |
| 2E x 8 Log | 7510.8 | 61400.1 | 1948.5 | 3132.3 | No | 8' 2 1/8" | - | |
| Ceiling/Floor Spaces | - | 12294.8 | - | 609.0 | - | - | - | |

building1

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC

02/23/2026

Prepared by: Groupe CMI

11:36 AM

| 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 | | | | | | | | |
| RDC Corridor | 496.5 | 4059.3 | 1697.9 | 0.0 | No | 8' 2 1/8" | - | |
| RDC SAS | 157.9 | 1293.7 | 332.7 | 188.6 | No | 8' 2 1/8" | - | |
| RDC x 8 Log | 7447.7 | 60884.3 | 1948.5 | 3214.8 | No | 8' 2 1/8" | - | |
| Ceiling/Floor Spaces | - | 12226.8 | - | 625.5 | - | - | - | |
| SS | | | | | | | | |
| SS SAS1 | 49.9 | 408.1 | 163.4 | 83.0 | No | 8' 2 1/8" | - | |
| SS SAS2 | 81.8 | 668.7 | 210.1 | 94.9 | No | 8' 2 1/8" | - | |
| SS Stationnement | 13832.4 | 113124.8 | 486.9 | 4355.3 | No | 8' 2 1/8" | - | |
| Ceiling/Floor Spaces | - | 8820.6 | - | 594.8 | - | - | - | |

4.4. Unmodeled Space Details

| Unmodeled Spaces | Level | Notes |
|------------------|-------|-------|
| 2E ASC | 2E | |
| 3E ASC | 3E | |
| 4E ASC | 4E | |
| RDC ASC | RDC | |
| SS ASC | SS | |

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 | 954.9 | 954.9 | - | - | |
| Ceiling Space for 4E 402 | Flat | 696.5 | 696.5 | - | - | |
| Ceiling Space for 4E 403 | Flat | 927.1 | 927.1 | - | - | |
| Ceiling Space for 4E 404 | Flat | 969.7 | 969.7 | - | - | |
| Ceiling Space for 4E 405 | Flat | 1080.4 | 1080.4 | - | - | |

building1

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC
 Prepared by: Groupe CMI

02/23/2026
 11:36 AM

| Name | Shape | Total Area (sqft) | Heat Transfer Area (sqft) | Pitch | | Notes |
|-------------------------------|-------|-------------------|---------------------------|---------|---------|-------|
| | | | | Pitch A | Pitch B | |
| Ceiling Space for 4E 406 | Flat | 691.3 | 691.3 | - | - | |
| Ceiling Space for 4E 407 | Flat | 951.8 | 951.8 | - | - | |
| Ceiling Space for 4E 408 | Flat | 930.2 | 930.2 | - | - | |
| Ceiling Space for 4E Corridor | Flat | 654.8 | 654.8 | - | - | |
| Ceiling Space for 4E ESC1 | Flat | 140.3 | 140.3 | - | - | |
| Ceiling Space for 4E ESC2 | Flat | 168.9 | 168.9 | - | - | |
| SS | | | | | | |
| Ceiling Space for SS SAS1 | Flat | 49.9 | 49.9 | - | - | |

4.6. Summary of Wall Groups

| Wall Group | Interior Wall Gross Area (sqft) | Exterior Wall Gross Area (sqft) | Notes |
|------------|---------------------------------|---------------------------------|-------|
| Default | 24367.4 | 20948.0 | |
| Air Walls | 0.0 | 0.0 | |

5. Openings

5.1. Schedule of Window Openings

| Tag | Count | Total Area (sqft) | Width | Height | Elevation | Exterior Shade | Notes |
|--------|-------|-------------------|-------|--------|-----------|----------------|-------|
| F1 5x5 | 68 | 1699.0 | 5' | 5' | 1' 6" | None | |
| F2 6x5 | 15 | 450.2 | 6' | 5' | 1' 6" | None | |
| F3 3x4 | 11 | 131.9 | 3' | 4' | 2' 6" | None | |
| F4 3x5 | 9 | 134.8 | 3' | 5' | 1' 6" | None | |

building1

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC
Prepared by: Groupe CMI

02/23/2026
11:36 AM

5.2. Schedule of Door Openings

| Tag | Count | Total Area (sqft) | Width | Height | Shade | Notes |
|-----------|----------|-------------------|-------|--------|-------|-------|
| PE Vitrée | 1 | 63.0 | 9' | 7' | None | |
| PO | Not used | - | 3' 4" | 7' | None | |
| PP | 32 | 1344.5 | 6' | 7' | None | |

5.3. Schedule of Skylight Openings

None

a) Space Model REF

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC
 Prepared by: Groupe CMI

02/23/2026
 11:36 AM

1. General Information

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

2. Spaces

The space model contains 30 spaces with total floor area of 46,562 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 Corridor | 2E | 654.8 | (None) | User Defined | 0.0 | CFM/person | 0.00 | CFM/sqft | 0.0 | CFM |
| 2 | 2E x 8 Log | 2E | 7510.8 | (None) | User Defined | 400.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |
| 3 | 3E 301 | 3E | 955.8 | (None) | User Defined | 50.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |
| 4 | 3E 302 | 3E | 698.5 | (None) | User Defined | 50.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |
| 5 | 3E 303 | 3E | 925.3 | (None) | User Defined | 50.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |
| 6 | 3E 304 | 3E | 971.0 | (None) | User Defined | 50.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |
| 7 | 3E 305 | 3E | 989.6 | (None) | User Defined | 50.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |
| 8 | 3E 306 | 3E | 688.9 | (None) | User Defined | 50.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |
| 9 | 3E 307 | 3E | 954.1 | (None) | User Defined | 50.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |
| 10 | 3E 308 | 3E | 930.2 | (None) | User Defined | 50.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |
| 11 | 3E Corridor | 3E | 654.8 | (None) | User Defined | 0.0 | CFM/person | 0.00 | CFM/sqft | 0.0 | CFM |
| 12 | 3E ESC1 | 3E | 228.3 | (None) | User Defined | 0.0 | CFM/person | 0.00 | CFM/sqft | 0.0 | CFM |
| 13 | 3E ESC2 | 3E | 168.9 | (None) | User Defined | 0.0 | CFM/person | 0.00 | CFM/sqft | 0.0 | CFM |
| 14 | 4E 401 | 4E | 954.9 | (None) | User Defined | 50.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |
| 15 | 4E 402 | 4E | 695.4 | (None) | User Defined | 50.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |
| 16 | 4E 403 | 4E | 927.0 | (None) | User Defined | 50.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |
| 17 | 4E 404 | 4E | 969.7 | (None) | User Defined | 50.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |
| 18 | 4E 405 | 4E | 1080.4 | (None) | User Defined | 50.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |
| 19 | 4E 406 | 4E | 691.2 | (None) | User Defined | 50.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |

a) Space Model REF

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC
 Prepared by: Groupe CMI

02/23/2026
 11:36 AM

| 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 | 4E 407 | 4E | 951.8 | (None) | User Defined | 50.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |
| 21 | 4E 408 | 4E | 930.2 | (None) | User Defined | 50.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |
| 22 | 4E Corridor | 4E | 654.8 | (None) | User Defined | 0.0 | CFM/person | 0.00 | CFM/sqft | 0.0 | CFM |
| 23 | 4E ESC1 | 4E | 140.2 | (None) | User Defined | 0.0 | CFM/person | 0.00 | CFM/sqft | 0.0 | CFM |
| 24 | 4E ESC2 | 4E | 168.9 | (None) | User Defined | 0.0 | CFM/person | 0.00 | CFM/sqft | 0.0 | CFM |
| 25 | RDC Corridor | RDC | 496.5 | (None) | User Defined | 0.0 | CFM/person | 0.00 | CFM/sqft | 0.0 | CFM |
| 26 | RDC SAS | RDC | 157.9 | (None) | User Defined | 0.0 | CFM/person | 0.00 | CFM/sqft | 0.0 | CFM |
| 27 | RDC x 8 Log | RDC | 7447.7 | (None) | User Defined | 400.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |
| 28 | SS SAS1 | SS | 49.9 | (None) | User Defined | 0.0 | CFM/person | 0.00 | CFM/sqft | 0.0 | CFM |
| 29 | SS SAS2 | SS | 81.8 | (None) | User Defined | 0.0 | CFM/person | 0.00 | CFM/sqft | 0.0 | CFM |
| 30 | SS Stationnement | SS | 13832.4 | (None) | User Defined | 0.0 | CFM/person | 0.00 | CFM/sqft | 0.0 | CFM |

a) Space Model REF

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC
 Prepared by: Groupe CMI

02/23/2026
 11:36 AM

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 Corridor | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 2 | 2E x 8 Log | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 3 | 3E 301 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 4 | 3E 302 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 5 | 3E 303 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 6 | 3E 304 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 7 | 3E 305 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 8 | 3E 306 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 9 | 3E 307 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 10 | 3E 308 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 11 | 3E Corridor | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 12 | 3E ESC1 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 13 | 3E ESC2 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 14 | 4E 401 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 15 | 4E 402 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 16 | 4E 403 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 17 | 4E 404 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 18 | 4E 405 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 19 | 4E 406 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 20 | 4E 407 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 21 | 4E 408 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |

a) Space Model REF

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC
 Prepared by: Groupe CMI

02/23/2026
 11:36 AM

| 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 | 4E Corridor | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 23 | 4E ESC1 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 24 | 4E ESC2 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 25 | RDC Corridor | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 26 | RDC SAS | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 27 | RDC x 8 Log | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 28 | SS SAS1 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 29 | SS SAS2 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 30 | SS Stationnement | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |

a) Space Model REF

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC
 Prepared by: Groupe CMI

02/23/2026
 11:36 AM

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 Corridor | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 2 | 2E x 8 Log | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 3 | 3E 301 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 4 | 3E 302 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 5 | 3E 303 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 6 | 3E 304 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 7 | 3E 305 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 8 | 3E 306 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 9 | 3E 307 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 10 | 3E 308 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 11 | 3E Corridor | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 12 | 3E ESC1 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 13 | 3E ESC2 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 14 | 4E 401 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 15 | 4E 402 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 16 | 4E 403 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 17 | 4E 404 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 18 | 4E 405 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 19 | 4E 406 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 20 | 4E 407 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 21 | 4E 408 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 22 | 4E Corridor | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 23 | 4E ESC1 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 24 | 4E ESC2 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 25 | RDC Corridor | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 26 | RDC SAS | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |

a) Space Model REF

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC
 Prepared by: Groupe CMI

02/23/2026
 11:36 AM

| Index | Space | Task Lighting | | | Electric Equipment | | | Miscellaneous Heat Gain | | | |
|-------|------------------|---------------|--------|----------|--------------------|--------|----------|-------------------------|----------|--------------------|----------|
| | | Power | Units | Schedule | Power | Units | Schedule | Sens. (BTU/hr) | Schedule | Latent (BTU/hr) | Schedule |
| 27 | RDC x 8 Log | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 28 | SS SAS1 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 29 | SS SAS2 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 30 | SS Stationnement | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |

a) Space Model REF

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC
 Prepared by: Groupe CMI

02/23/2026
 11:36 AM

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 Corridor | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 2 | 2E x 8 Log | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 3 | 3E 301 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 4 | 3E 302 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 5 | 3E 303 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 6 | 3E 304 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 7 | 3E 305 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 8 | 3E 306 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 9 | 3E 307 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 10 | 3E 308 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 11 | 3E Corridor | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 12 | 3E ESC1 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 13 | 3E ESC2 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 14 | 4E 401 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 15 | 4E 402 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 16 | 4E 403 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 17 | 4E 404 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 18 | 4E 405 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 19 | 4E 406 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 20 | 4E 407 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 21 | 4E 408 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 22 | 4E Corridor | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 23 | 4E ESC1 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 24 | 4E ESC2 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 25 | RDC Corridor | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.0 | 0.0 | 0.0 | CFM | Unoccupied |
| 26 | RDC SAS | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |

a) Space Model REF

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC

02/23/2026

Prepared by: Groupe CMI

11:36 AM

| 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 |
| 27 | RDC x 8 Log | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 28 | SS SAS1 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.0 | 0.0 | 0.0 | CFM | Unoccupied |
| 29 | SS SAS2 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.0 | 0.0 | 0.0 | CFM | Unoccupied |
| 30 | SS Stationnement | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.0 | 0.0 | 0.0 | CFM | Unoccupied |

a) Space Model REF

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC
 Prepared by: Groupe CMI

02/23/2026
 11:36 AM

3. Zoning

| Zone | Space | Level |
|-------------|-------------|-------|
| 2E Corridor | | |
| | 2E Corridor | 2E |
| 2E x 8 Log | | |
| | 2E x 8 Log | 2E |
| 3E 301 | | |
| | 3E 301 | 3E |
| 3E 302 | | |
| | 3E 302 | 3E |
| 3E 303 | | |
| | 3E 303 | 3E |
| 3E 304 | | |
| | 3E 304 | 3E |
| 3E 305 | | |
| | 3E 305 | 3E |
| 3E 306 | | |
| | 3E 306 | 3E |
| 3E 307 | | |
| | 3E 307 | 3E |
| 3E 308 | | |
| | 3E 308 | 3E |
| 3E Corridor | | |
| | 3E Corridor | 3E |
| 3E ESC1 | | |
| | 3E ESC1 | 3E |
| 3E ESC2 | | |
| | 3E ESC2 | 3E |
| 4E 401 | | |

a) Space Model REF

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC

Prepared by: Groupe CMI

02/23/2026

11:36 AM

| Zone | Space | Level |
|--------------|--------------|-------|
| | 4E 401 | 4E |
| 4E 402 | | |
| | 4E 402 | 4E |
| 4E 403 | | |
| | 4E 403 | 4E |
| 4E 404 | | |
| | 4E 404 | 4E |
| 4E 405 | | |
| | 4E 405 | 4E |
| 4E 406 | | |
| | 4E 406 | 4E |
| 4E 407 | | |
| | 4E 407 | 4E |
| 4E 408 | | |
| | 4E 408 | 4E |
| 4E Corridor | | |
| | 4E Corridor | 4E |
| 4E ESC1 | | |
| | 4E ESC1 | 4E |
| 4E ESC2 | | |
| | 4E ESC2 | 4E |
| RDC Corridor | | |
| | RDC Corridor | RDC |
| RDC SAS | | |
| | RDC SAS | RDC |
| RDC x 8 Log | | |
| | RDC x 8 Log | RDC |
| SS SAS1 | | |
| | SS SAS1 | SS |

a) Space Model REF

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC
 Prepared by: Groupe CMI

02/23/2026
 11:36 AM

| Zone | Space | Level |
|---------------------------|------------------|-------|
| SS SAS2 | | |
| | SS SAS2 | SS |
| SS Stationnement | | |
| | SS Stationnement | SS |
| Unconditioned (no spaces) | | |
| Unassigned (no spaces) | | |

4. Assemblies

| Category | Surface Group | Selected Assembly |
|---------------------------|-----------------------------|-------------------|
| Exterior Above Grade Wall | | |
| | Default | R=21.5 |
| Exterior Below Grade Wall | | |
| | Default | R=17 |
| Interior Wall | | |
| | Default | Default Wall |
| Roof | | |
| | Default | R=31 |
| Ceiling | | |
| | Interior Ceilings | Default Ceiling |
| Floor Above Space | | |
| | Interior Floors Above Space | Default Floor |
| Slab Floor Below Grade | | |
| | Below Grade Floors | R=5 |
| Floor Above Ambient | | |
| | Floor Above Ambient | R = 21.5 |

a) Space Model REF

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC
 Prepared by: Groupe CMI

02/23/2026
 11:36 AM

5. Windows & Doors

| Category | Tag | Width x Height, Elevation | Selected Assembly |
|----------|-----------|---------------------------|-------------------|
| Window | | | |
| | F1 5x5 | 5' x 5' , 1' 6" | U=0.3 SHGC=0.35 |
| | F2 6x5 | 6' x 5' , 1' 6" | U=0.3 SHGC=0.35 |
| | F3 3x4 | 3' x 4' , 2' 6" | U=0.3 SHGC=0.35 |
| | F4 3x5 | 3' x 5' , 1' 6" | U=0.3 SHGC=0.35 |
| Door | | | |
| | PE Vitrée | 9' x 7' | U=0.3 SHGC=0.35 |
| | PP | 6' x 7' | U=0.3 SHGC=0.35 |

ASHRAE 90.1 Vertical Glazing Summary:

Total Window Opening Glazing Area 2415.9 sqft
 Total Door Opening Glazing Area 1407.5 sqft
 Total Gross Above Grade Wall Area 15819.9 sqft
 Window-to-wall Ratio (WWR) 18.3 %

b) Space Model CPT

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC
 Prepared by: Groupe CMI

02/23/2026
 11:36 AM

1. General Information

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

2. Spaces

The space model contains 30 spaces with total floor area of 46,562 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 Corridor | 2E | 654.8 | (None) | User Defined | 0.0 | CFM/person | 0.00 | CFM/sqft | 0.0 | CFM |
| 2 | 2E x 8 Log | 2E | 7510.8 | (None) | User Defined | 400.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |
| 3 | 3E 301 | 3E | 955.8 | (None) | User Defined | 50.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |
| 4 | 3E 302 | 3E | 698.5 | (None) | User Defined | 50.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |
| 5 | 3E 303 | 3E | 925.3 | (None) | User Defined | 50.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |
| 6 | 3E 304 | 3E | 971.0 | (None) | User Defined | 50.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |
| 7 | 3E 305 | 3E | 989.6 | (None) | User Defined | 50.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |
| 8 | 3E 306 | 3E | 688.9 | (None) | User Defined | 50.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |
| 9 | 3E 307 | 3E | 954.1 | (None) | User Defined | 50.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |
| 10 | 3E 308 | 3E | 930.2 | (None) | User Defined | 50.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |
| 11 | 3E Corridor | 3E | 654.8 | (None) | User Defined | 0.0 | CFM/person | 0.00 | CFM/sqft | 0.0 | CFM |
| 12 | 3E ESC1 | 3E | 228.3 | (None) | User Defined | 0.0 | CFM/person | 0.00 | CFM/sqft | 0.0 | CFM |
| 13 | 3E ESC2 | 3E | 168.9 | (None) | User Defined | 0.0 | CFM/person | 0.00 | CFM/sqft | 0.0 | CFM |
| 14 | 4E 401 | 4E | 954.9 | (None) | User Defined | 50.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |
| 15 | 4E 402 | 4E | 695.4 | (None) | User Defined | 50.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |
| 16 | 4E 403 | 4E | 927.0 | (None) | User Defined | 50.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |
| 17 | 4E 404 | 4E | 969.7 | (None) | User Defined | 50.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |

b) Space Model CPT

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC

Prepared by: Groupe CMI

02/23/2026

11:36 AM

| 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 | 4E 405 | 4E | 1080.4 | (None) | User Defined | 50.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |
| 19 | 4E 406 | 4E | 691.2 | (None) | User Defined | 50.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |
| 20 | 4E 407 | 4E | 951.8 | (None) | User Defined | 50.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |
| 21 | 4E 408 | 4E | 930.2 | (None) | User Defined | 50.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |
| 22 | 4E Corridor | 4E | 654.8 | (None) | User Defined | 0.0 | CFM/person | 0.00 | CFM/sqft | 0.0 | CFM |
| 23 | 4E ESC1 | 4E | 140.2 | (None) | User Defined | 0.0 | CFM/person | 0.00 | CFM/sqft | 0.0 | CFM |
| 24 | 4E ESC2 | 4E | 168.9 | (None) | User Defined | 0.0 | CFM/person | 0.00 | CFM/sqft | 0.0 | CFM |
| 25 | RDC Corridor | RDC | 496.5 | (None) | User Defined | 0.0 | CFM/person | 0.00 | CFM/sqft | 0.0 | CFM |
| 26 | RDC SAS | RDC | 157.9 | (None) | User Defined | 0.0 | CFM/person | 0.00 | CFM/sqft | 0.0 | CFM |
| 27 | RDC x 8 Log | RDC | 7447.7 | (None) | User Defined | 400.0 | CFM | 0.00 | CFM/sqft | 0.0 | CFM |
| 28 | SS SAS1 | SS | 49.9 | (None) | User Defined | 0.0 | CFM/person | 0.00 | CFM/sqft | 0.0 | CFM |
| 29 | SS SAS2 | SS | 81.8 | (None) | User Defined | 0.0 | CFM/person | 0.00 | CFM/sqft | 0.0 | CFM |
| 30 | SS Stationnement | SS | 13832.4 | (None) | User Defined | 0.0 | CFM/person | 0.00 | CFM/sqft | 0.0 | CFM |

b) Space Model CPT

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC
 Prepared by: Groupe CMI

02/23/2026
 11:36 AM

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 Corridor | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 2 | 2E x 8 Log | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 3 | 3E 301 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 4 | 3E 302 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 5 | 3E 303 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 6 | 3E 304 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 7 | 3E 305 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 8 | 3E 306 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 9 | 3E 307 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 10 | 3E 308 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 11 | 3E Corridor | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 12 | 3E ESC1 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 13 | 3E ESC2 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 14 | 4E 401 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 15 | 4E 402 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 16 | 4E 403 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 17 | 4E 404 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 18 | 4E 405 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 19 | 4E 406 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 20 | 4E 407 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 21 | 4E 408 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |

b) Space Model CPT

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC

Prepared by: Groupe CMI

02/23/2026

11:36 AM

| 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 | 4E Corridor | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 23 | 4E ESC1 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 24 | 4E ESC2 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 25 | RDC Corridor | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 26 | RDC SAS | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 27 | RDC x 8 Log | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 28 | SS SAS1 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 29 | SS SAS2 | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |
| 30 | SS Stationnement | Building Area | User Defined | 0.00 | W/sqft | Fluorescent: Recessed, no Lens, Unvented | (None) | 1.00 | Not Used | --- | --- |

b) Space Model CPT

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC
 Prepared by: Groupe CMI

02/23/2026
 11:36 AM

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 Corridor | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 2 | 2E x 8 Log | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 3 | 3E 301 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 4 | 3E 302 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 5 | 3E 303 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 6 | 3E 304 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 7 | 3E 305 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 8 | 3E 306 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 9 | 3E 307 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 10 | 3E 308 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 11 | 3E Corridor | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 12 | 3E ESC1 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 13 | 3E ESC2 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 14 | 4E 401 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 15 | 4E 402 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 16 | 4E 403 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 17 | 4E 404 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 18 | 4E 405 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 19 | 4E 406 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 20 | 4E 407 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 21 | 4E 408 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 22 | 4E Corridor | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 23 | 4E ESC1 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 24 | 4E ESC2 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 25 | RDC Corridor | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 26 | RDC SAS | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |

b) Space Model CPT

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC
 Prepared by: Groupe CMI

02/23/2026
 11:36 AM

| Index | Space | Task Lighting | | | Electric Equipment | | | Miscellaneous Heat Gain | | | |
|-------|------------------|---------------|--------|----------|--------------------|--------|----------|-------------------------|----------|--------------------|----------|
| | | Power | Units | Schedule | Power | Units | Schedule | Sens. (BTU/hr) | Schedule | Latent (BTU/hr) | Schedule |
| 27 | RDC x 8 Log | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 28 | SS SAS1 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 29 | SS SAS2 | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |
| 30 | SS Stationnement | 0.00 | W/sqft | (None) | 0.00 | W/sqft | (None) | 0 | (None) | 0 | (None) |

b) Space Model CPT

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC
 Prepared by: Groupe CMI

02/23/2026
 11:36 AM

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 Corridor | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 2 | 2E x 8 Log | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 3 | 3E 301 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 4 | 3E 302 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 5 | 3E 303 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 6 | 3E 304 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 7 | 3E 305 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 8 | 3E 306 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 9 | 3E 307 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 10 | 3E 308 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 11 | 3E Corridor | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 12 | 3E ESC1 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 13 | 3E ESC2 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 14 | 4E 401 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 15 | 4E 402 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 16 | 4E 403 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 17 | 4E 404 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 18 | 4E 405 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 19 | 4E 406 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 20 | 4E 407 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 21 | 4E 408 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 22 | 4E Corridor | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 23 | 4E ESC1 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 24 | 4E ESC2 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 25 | RDC Corridor | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.0 | 0.0 | 0.0 | CFM | Unoccupied |
| 26 | RDC SAS | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |

b) Space Model CPT

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC

02/23/2026

Prepared by: Groupe CMI

11:36 AM

| 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 |
| 27 | RDC x 8 Log | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.00 | 0.10 | 0.10 | CFM/sqft | All Hours |
| 28 | SS SAS1 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.0 | 0.0 | 0.0 | CFM | Unoccupied |
| 29 | SS SAS2 | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.0 | 0.0 | 0.0 | CFM | Unoccupied |
| 30 | SS Stationnement | 0 | People | (None) | User Defined | 245.0 | 205.0 | 0.0 | 0.0 | 0.0 | CFM | Unoccupied |

b) Space Model CPT

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC
Prepared by: Groupe CMI

02/23/2026
11:36 AM

3. Zoning

| Zone | Space | Level |
|-------------|-------------|-------|
| 2E Corridor | | |
| | 2E Corridor | 2E |
| 2E x 8 Log | | |
| | 2E x 8 Log | 2E |
| 3E 301 | | |
| | 3E 301 | 3E |
| 3E 302 | | |
| | 3E 302 | 3E |
| 3E 303 | | |
| | 3E 303 | 3E |
| 3E 304 | | |
| | 3E 304 | 3E |
| 3E 305 | | |
| | 3E 305 | 3E |
| 3E 306 | | |
| | 3E 306 | 3E |
| 3E 307 | | |
| | 3E 307 | 3E |
| 3E 308 | | |
| | 3E 308 | 3E |
| 3E Corridor | | |
| | 3E Corridor | 3E |
| 3E ESC1 | | |
| | 3E ESC1 | 3E |
| 3E ESC2 | | |
| | 3E ESC2 | 3E |
| 4E 401 | | |

b) Space Model CPT

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC
 Prepared by: Groupe CMI

02/23/2026
 11:36 AM

| Zone | Space | Level |
|--------------|--------------|-------|
| | 4E 401 | 4E |
| 4E 402 | | |
| | 4E 402 | 4E |
| 4E 403 | | |
| | 4E 403 | 4E |
| 4E 404 | | |
| | 4E 404 | 4E |
| 4E 405 | | |
| | 4E 405 | 4E |
| 4E 406 | | |
| | 4E 406 | 4E |
| 4E 407 | | |
| | 4E 407 | 4E |
| 4E 408 | | |
| | 4E 408 | 4E |
| 4E Corridor | | |
| | 4E Corridor | 4E |
| 4E ESC1 | | |
| | 4E ESC1 | 4E |
| 4E ESC2 | | |
| | 4E ESC2 | 4E |
| RDC Corridor | | |
| | RDC Corridor | RDC |
| RDC SAS | | |
| | RDC SAS | RDC |
| RDC x 8 Log | | |
| | RDC x 8 Log | RDC |
| SS SAS1 | | |
| | SS SAS1 | SS |

b) Space Model CPT

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC
 Prepared by: Groupe CMI

02/23/2026
 11:36 AM

| Zone | Space | Level |
|---------------------------|------------------|-------|
| SS SAS2 | | |
| | SS SAS2 | SS |
| SS Stationnement | | |
| | SS Stationnement | SS |
| Unconditioned (no spaces) | | |
| Unassigned (no spaces) | | |

4. Assemblies

| Category | Surface Group | Selected Assembly |
|---------------------------|-----------------------------|-------------------|
| Exterior Above Grade Wall | | |
| | Default | R=21.5 |
| Exterior Below Grade Wall | | |
| | Default | R=17 |
| Interior Wall | | |
| | Default | Default Wall |
| Roof | | |
| | Default | R=31 |
| Ceiling | | |
| | Interior Ceilings | Default Ceiling |
| Floor Above Space | | |
| | Interior Floors Above Space | Default Floor |
| Slab Floor Below Grade | | |
| | Below Grade Floors | R=5 |
| Floor Above Ambient | | |
| | Floor Above Ambient | R = 21.5 |

b) Space Model CPT

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC
 Prepared by: Groupe CMI

02/23/2026
 11:36 AM

5. Windows & Doors

| Category | Tag | Width x Height, Elevation | Selected Assembly |
|----------|-----------|---------------------------|-------------------|
| Window | | | |
| | F1 5x5 | 5' x 5' , 1' 6" | U=0.3 SHGC=0.35 |
| | F2 6x5 | 6' x 5' , 1' 6" | U=0.3 SHGC=0.35 |
| | F3 3x4 | 3' x 4' , 2' 6" | U=0.3 SHGC=0.35 |
| | F4 3x5 | 3' x 5' , 1' 6" | U=0.3 SHGC=0.35 |
| Door | | | |
| | PE Vitrée | 9' x 7' | U=0.3 SHGC=0.35 |
| | PP | 6' x 7' | U=0.3 SHGC=0.35 |

ASHRAE 90.1 Vertical Glazing Summary:

Total Window Opening Glazing Area 2415.9 sqft
 Total Door Opening Glazing Area 1407.5 sqft
 Total Gross Above Grade Wall Area 15819.9 sqft
 Window-to-wall Ratio (WWR) 18.3 %

01 2E x 8 Log REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name **01 2E x 8 Log 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 **56 %**
 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 **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 x 8 Log |

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 x 8 Log REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **3031.5** 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 | 3031.5 | - | - | - |

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **34.9** MBH
 Design OADB **95.0** F
 Design EWB **67.0** F
 Equipment Sizing **User-Defined**
 Gross Cooling Capacity **96.0** MBH
 AHRI Performance Rating **20.800** SEER2
 DX System Configuration **1-stage, 1 compressor, 1 circuit**
 Low Temperature Cutoff OAT **0.0** F

02 2E x 8 Log CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name **02 2E x 8 Log 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 **56** %
 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 x 8 Log |

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 x 8 Log CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **3031.5** 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 | 3031.5 | - | - | - |

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **34.9** MBH
 Design OADB **95.0** F
 Design EWB **67.0** F
 Equipment Sizing **User-Defined**
 Gross Cooling Capacity **81.0** MBH
 AHRI Performance Rating **29.187** SEER2
 DX System Configuration **2-stage, 2 compressors, 2 circuits**
 Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **103.0** MBH
 Design OADB **47.0** F
 Design EDB **70.0** F
 Equipment Sizing **User-Defined**
 Gross Heating Capacity **81.0** MBH
 AHRI Performance Rating **4.460** COP
 Cutoff OAT **-22.0** F

Auxiliary Heating:

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

03 3E 301 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name 03 3E 301 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 56 %
 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 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 301 |

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 3E 301 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **394.2** CFM
 Ventilation Airflow **50.0** 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 | 394.2 | - | - | - |

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **7.2** MBH
 Design OADB **95.0** F
 Design EWB **67.0** F
 Equipment Sizing **User-Defined**
 Gross Cooling Capacity **12.0** MBH
 AHRI Performance Rating **20.800** SEER2
 DX System Configuration **1-stage, 1 compressor, 1 circuit**
 Low Temperature Cutoff OAT **0.0** F

04 3E 301 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name 04 3E 301 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 56 %
 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 |

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 3E 301 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **394.2** CFM
 Ventilation Airflow **50.0** 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 | 394.2 | - | - | - |

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **7.2** 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 **10.4** MBH
 Design OADB **47.0** F
 Design EDB **70.0** F
 Equipment Sizing **User-Defined**
 Gross Heating Capacity **9.0** MBH
 AHRI Performance Rating **4.400** COP
 Cutoff OAT **-22.0** F

Auxiliary Heating:

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

05 3E 302 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name **05 3E 302 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 **56 %**
 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 **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 302 |

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 3E 302 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **289.6** CFM
 Ventilation Airflow **50.0** 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 | 289.6 | - | - | - |

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 **20.800** SEER2
 DX System Configuration **1-stage, 1 compressor, 1 circuit**
 Low Temperature Cutoff OAT **0.0** F

06 3E 302 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name **06 3E 302 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 **56 %**
 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 302 |

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 3E 302 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **289.6** CFM
 Ventilation Airflow **50.0** 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 | 289.6 | - | - | - |

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 **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 **8.2** MBH
 Design OADB **47.0** F
 Design EDB **70.0** F
 Equipment Sizing **User-Defined**
 Gross Heating Capacity **9.0** MBH
 AHRI Performance Rating **4.400** COP
 Cutoff OAT **-22.0** F

Auxiliary Heating:

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

07 3E 303 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name 07 3E 303 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 56 %
 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 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 303 |

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 3E 303 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **393.0** CFM
 Ventilation Airflow **50.0** 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 | 393.0 | - | - | - |

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **7.1** MBH
 Design OADB **95.0** F
 Design EWB **67.0** F
 Equipment Sizing **User-Defined**
 Gross Cooling Capacity **12.0** MBH
 AHRI Performance Rating **20.800** SEER2
 DX System Configuration **1-stage, 1 compressor, 1 circuit**
 Low Temperature Cutoff OAT **0.0** F

08 3E 303 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name 08 3E 303 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 56 %
 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 303 |

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 3E 303 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **393.0** CFM
 Ventilation Airflow **50.0** 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 | 393.0 | - | - | - |

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **7.1** 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 **10.2** MBH
 Design OADB **47.0** F
 Design EDB **70.0** F
 Equipment Sizing **User-Defined**
 Gross Heating Capacity **9.0** MBH
 AHRI Performance Rating **4.400** COP
 Cutoff OAT **-22.0** F

Auxiliary Heating:

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

09 3E 304 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name 09 3E 304 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 56 %
 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 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 304 |

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 3E 304 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **515.2** CFM
 Ventilation Airflow **50.0** 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 | 515.2 | - | - | - |

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **9.1** MBH
 Design OADB **95.0** F
 Design EWB **67.0** F
 Equipment Sizing **User-Defined**
 Gross Cooling Capacity **12.0** MBH
 AHRI Performance Rating **20.800** SEER2
 DX System Configuration **1-stage, 1 compressor, 1 circuit**
 Low Temperature Cutoff OAT **0.0** F

10 3E 304 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name 10 3E 304 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 56 %
 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 304 |

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 3E 304 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **515.2** CFM
 Ventilation Airflow **50.0** 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 | 515.2 | - | - | - |

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **9.1** 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 **16.3** 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

11 3E 305 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name 11 3E 305 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 56 %
 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 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 305 |

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 3E 305 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **540.0** CFM
 Ventilation Airflow **50.0** 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 | 540.0 | - | - | - |

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **10.1** MBH
 Design OADB **95.0** F
 Design EWB **67.0** F
 Equipment Sizing **User-Defined**
 Gross Cooling Capacity **12.0** MBH
 AHRI Performance Rating **20.800** SEER2
 DX System Configuration **1-stage, 1 compressor, 1 circuit**
 Low Temperature Cutoff OAT **0.0** F

12 3E 305 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name 12 3E 305 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 56 %
 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 305 |

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 3E 305 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **540.0** CFM
 Ventilation Airflow **50.0** 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 | 540.0 | - | - | - |

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **10.1** 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 **16.4** 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

13 3E 306 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name 13 3E 306 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 56 %
 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 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 306 |

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 3E 306 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **214.6** CFM
 Ventilation Airflow **50.0** 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 | 214.6 | - | - | - |

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 **20.800** SEER2
 DX System Configuration **1-stage, 1 compressor, 1 circuit**
 Low Temperature Cutoff OAT **0.0** F

14 3E 306 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name 14 3E 306 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 56 %
 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 306 |

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 3E 306 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **214.6** CFM
 Ventilation Airflow **50.0** 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 | 214.6 | - | - | - |

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 **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 **8.0** 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

15 3E 307 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name 15 3E 307 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 56 %
 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 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 307 |

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 3E 307 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **284.9** CFM
 Ventilation Airflow **50.0** 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 | 284.9 | - | - | - |

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **5.2** MBH
 Design OADB **95.0** F
 Design EWB **67.0** F
 Equipment Sizing **User-Defined**
 Gross Cooling Capacity **12.0** MBH
 AHRI Performance Rating **20.800** SEER2
 DX System Configuration **1-stage, 1 compressor, 1 circuit**
 Low Temperature Cutoff OAT **0.0** F

16 3E 307 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name 16 3E 307 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 56 %
 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 307 |

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 3E 307 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **284.9** CFM
 Ventilation Airflow **50.0** 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 | 284.9 | - | - | - |

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **5.2** 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 **10.2** MBH
 Design OADB **47.0** F
 Design EDB **70.0** F
 Equipment Sizing **User-Defined**
 Gross Heating Capacity **9.0** MBH
 AHRI Performance Rating **4.400** COP
 Cutoff OAT **-22.0** F

Auxiliary Heating:

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

17 3E 308 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name 17 3E 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 56 %
 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 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 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

17 3E 308 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **471.7** CFM
 Ventilation Airflow **50.0** 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 | 471.7 | - | - | - |

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 **20.800** SEER2
 DX System Configuration **1-stage, 1 compressor, 1 circuit**
 Low Temperature Cutoff OAT **0.0** F

18 3E 308 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name 18 3E 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 56 %
 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 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

18 3E 308 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **471.7** CFM
 Ventilation Airflow **50.0** 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 | 471.7 | - | - | - |

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 **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 **15.3** 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

19 4E 401 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name 19 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 56 %
 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 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 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

19 4E 401 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **391.9** CFM
 Ventilation Airflow **50.0** 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 | 391.9 | - | - | - |

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 **20.800** SEER2
 DX System Configuration **1-stage, 1 compressor, 1 circuit**
 Low Temperature Cutoff OAT **0.0** F

20 4E 401 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name 20 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 56 %
 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

20 4E 401 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **391.9** CFM
 Ventilation Airflow **50.0** 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 | 391.9 | - | - | - |

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 **12.8** 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

21 4E 402 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name 21 4E 402 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 56 %
 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 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 402 |

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 4E 402 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **286.8** CFM
 Ventilation Airflow **50.0** 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 | 286.8 | - | - | - |

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **5.4** MBH
 Design OADB **95.0** F
 Design EWB **67.0** F
 Equipment Sizing **User-Defined**
 Gross Cooling Capacity **12.0** MBH
 AHRI Performance Rating **20.800** SEER2
 DX System Configuration **1-stage, 1 compressor, 1 circuit**
 Low Temperature Cutoff OAT **0.0** F

22 4E 402 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name 22 4E 402 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 56 %
 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 |

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 4E 402 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **286.8** CFM
 Ventilation Airflow **50.0** 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 | 286.8 | - | - | - |

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **5.4** MBH
 Design OADB **95.0** F
 Design EWB **67.0** F
 Equipment Sizing **User-Defined**
 Gross Cooling Capacity **9.0** MBH
 AHRI Performance Rating **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 **10.0** 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

23 4E 403 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name 23 4E 403 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 56 %
 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 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 403 |

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 4E 403 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **383.2** CFM
 Ventilation Airflow **50.0** 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 | 383.2 | - | - | - |

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 **12.0** MBH
 AHRI Performance Rating **20.800** SEER2
 DX System Configuration **1-stage, 1 compressor, 1 circuit**
 Low Temperature Cutoff OAT **0.0** F

24 4E 403 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name 24 4E 403 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 56 %
 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 403 |

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 4E 403 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **383.2** CFM
 Ventilation Airflow **50.0** 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 | 383.2 | - | - | - |

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 **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 **12.6** 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

25 4E 404 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name **25 4E 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 **56 %**
 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 **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 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**

25 4E 404 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **626.8** CFM
 Ventilation Airflow **50.0** 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 | 626.8 | - | - | - |

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **9.7** MBH
 Design OADB **95.0** F
 Design EWB **67.0** F
 Equipment Sizing **User-Defined**
 Gross Cooling Capacity **12.0** MBH
 AHRI Performance Rating **20.800** SEER2
 DX System Configuration **1-stage, 1 compressor, 1 circuit**
 Low Temperature Cutoff OAT **0.0** F

26 4E 404 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name **26 4E 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 **56 %**
 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 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**

26 4E 404 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **626.8** CFM
 Ventilation Airflow **50.0** 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 | 626.8 | - | - | - |

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **9.7** 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 **19.1** 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

27 4E 405 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name 27 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 56 %
 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 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 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

27 4E 405 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **665.5** CFM
 Ventilation Airflow **50.0** 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 | 665.5 | - | - | - |

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 **20.800** SEER2
 DX System Configuration **1-stage, 1 compressor, 1 circuit**
 Low Temperature Cutoff OAT **0.0** F

28 4E 405 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 56 %
 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: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **665.5** CFM
 Ventilation Airflow **50.0** 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 | 665.5 | - | - | - |

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 **20.2** MBH
 Design OADB **47.0** F
 Design EDB **70.0** F
 Equipment Sizing **User-Defined**
 Gross Heating Capacity **12.0** MBH
 AHRI Performance Rating **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 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name **29 4E 406 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 **56** %
 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 **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 406 |

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 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **286.4** CFM
 Ventilation Airflow **50.0** 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 | 286.4 | - | - | - |

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 **20.800** SEER2
 DX System Configuration **1-stage, 1 compressor, 1 circuit**
 Low Temperature Cutoff OAT **0.0** F

30 4E 406 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name **30 4E 406 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 **56** %
 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 |

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 406 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **286.4** CFM
 Ventilation Airflow **50.0** 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 | 286.4 | - | - | - |

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 **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 **9.9** 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

31 4E 407 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name 31 4E 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 56 %
 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 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 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

31 4E 407 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **393.0** CFM
 Ventilation Airflow **50.0** 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 | 393.0 | - | - | - |

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **7.2** MBH
 Design OADB **95.0** F
 Design EWB **67.0** F
 Equipment Sizing **User-Defined**
 Gross Cooling Capacity **12.0** MBH
 AHRI Performance Rating **20.800** SEER2
 DX System Configuration **1-stage, 1 compressor, 1 circuit**
 Low Temperature Cutoff OAT **0.0** F

32 4E 407 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name **32 4E 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 **56** %
 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 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**

32 4E 407 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **393.0** CFM
 Ventilation Airflow **50.0** 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 | 393.0 | - | - | - |

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **7.2** 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 **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

33 4E 408 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name 33 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 56 %
 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 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 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

33 4E 408 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **579.0** CFM
 Ventilation Airflow **50.0** 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 | 579.0 | - | - | - |

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **6.7** MBH
 Design OADB **95.0** F
 Design EWB **67.0** F
 Equipment Sizing **User-Defined**
 Gross Cooling Capacity **12.0** MBH
 AHRI Performance Rating **20.800** SEER2
 DX System Configuration **1-stage, 1 compressor, 1 circuit**
 Low Temperature Cutoff OAT **0.0** F

34 4E 408 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name **34 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 **56** %
 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**

34 4E 408 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **579.0** CFM
 Ventilation Airflow **50.0** 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 | 579.0 | - | - | - |

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **6.7** 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 **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 **4.550** COP
 Cutoff OAT **-22.0** F

Auxiliary Heating:

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

35 RDC x 8 Log REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name **35 RDC x 8 Log 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 **56** %
 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 **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 x 8 Log |

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 RDC x 8 Log REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **2998.9** 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 | 2998.9 | - | - | - |

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **34.2** MBH
 Design OADB **95.0** F
 Design EWB **67.0** F
 Equipment Sizing **User-Defined**
 Gross Cooling Capacity **96.0** MBH
 AHRI Performance Rating **20.800** SEER2
 DX System Configuration **1-stage, 1 compressor, 1 circuit**
 Low Temperature Cutoff OAT **0.0** F

36 RDC x 8 Log CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name **36 RDC x 8 Log 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 **56 %**
 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 x 8 Log |

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 RDC x 8 Log CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 **2998.9** 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 | 2998.9 | - | - | - |

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **34.2** MBH
 Design OADB **95.0** F
 Design EWB **67.0** F
 Equipment Sizing **User-Defined**
 Gross Cooling Capacity **81.0** MBH
 AHRI Performance Rating **29.187** SEER2
 DX System Configuration **2-stage, 2 compressors, 2 circuits**
 Low Temperature Cutoff OAT **0.0** F

Central Heating Unit - ASHP

Estimated Maximum Load **99.8** MBH
 Design OADB **47.0** F
 Design EDB **70.0** F
 Equipment Sizing **User-Defined**
 Gross Heating Capacity **81.0** MBH
 AHRI Performance Rating **4.460** COP
 Cutoff OAT **-22.0** F

Auxiliary Heating:

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

37 3E ESC1 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name 37 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 2.00 in wg
 Overall Efficiency 100 %
 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 65.0 CFM
 Ventilation Airflow 0.0 CFM
 Heating Supply Temperature 95.0 F

37 3E ESC1 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
Prepared by: Groupe CMI

02/23/2026
11:41 AM

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 | 65.0 | - | - | - |

5. Equipment Data

No equipment data required for this system.

38 3E ESC1 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name **38 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 **2.00** in wg
 Overall Efficiency **100** %
 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 **65.0** CFM
 Ventilation Airflow **0.0** CFM
 Heating Supply Temperature **95.0** F

38 3E ESC1 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
Prepared by: Groupe CMI

02/23/2026
11:41 AM

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 | 65.0 | - | - | - |

5. Equipment Data

No equipment data required for this system.

39 4E ESC1 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name **39 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 **2.00** in wg
 Overall Efficiency **100** %
 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 **59.6** CFM
 Ventilation Airflow **0.0** CFM
 Heating Supply Temperature **95.0** F

39 4E ESC1 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
Prepared by: Groupe CMI

02/23/2026
11:41 AM

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 | 59.6 | - | - | - |

5. Equipment Data

No equipment data required for this system.

40 4E ESC1 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name **40 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 **2.00** in wg
 Overall Efficiency **100** %
 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 **59.6** CFM
 Ventilation Airflow **0.0** CFM
 Heating Supply Temperature **95.0** F

40 4E ESC1 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
Prepared by: Groupe CMI

02/23/2026
11:41 AM

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 | 59.6 | - | - | - |

5. Equipment Data

No equipment data required for this system.

41 4E ESC2 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name **41 4E ESC2 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 **2.00** in wg
 Overall Efficiency **100** %
 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 |

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 **212.1** CFM
 Ventilation Airflow **0.0** CFM
 Heating Supply Temperature **95.0** F

41 4E ESC2 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
Prepared by: Groupe CMI

02/23/2026
11:41 AM

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 | 212.1 | - | - | - |

5. Equipment Data

No equipment data required for this system.

42 4E ESC2 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name **42 4E ESC2 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 **2.00** in wg
 Overall Efficiency **100 %**
 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 |

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 **212.1** CFM
 Ventilation Airflow **0.0** CFM
 Heating Supply Temperature **95.0** F

42 4E ESC2 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 | 212.1 | - | - | - |

5. Equipment Data

No equipment data required for this system.

43 SS Stationnement REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name **43 SS Stationnement 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 **2.00** in wg
 Overall Efficiency **100** %
 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 | SS Stationnement |

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 **1306.9** CFM
 Ventilation Airflow **0.0** CFM
 Heating Supply Temperature **95.0** F

43 SS Stationnement REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
Prepared by: Groupe CMI

02/23/2026
11:41 AM

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 | 1306.9 | - | - | - |

5. Equipment Data

No equipment data required for this system.

44 SS Stationnement CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name **44 SS Stationnement 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 **2.00** in wg
 Overall Efficiency **100** %
 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 | SS Stationnement |

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 **1306.9** CFM
 Ventilation Airflow **0.0** CFM
 Heating Supply Temperature **95.0** F

44 SS Stationnement CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 | 1306.9 | - | - | - |

5. Equipment Data

No equipment data required for this system.

45 Couloir et SAS REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name **45 Couloir et SAS REF**
 Equipment Type **Packaged Rooftop Units**
 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 **55.0** 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 |
| 3 | 4E Corridor |
| 4 | RDC Corridor |
| 5 | RDC SAS |
| 6 | SS SAS1 |
| 7 | SS SAS2 |

Number of zones **7**

45 Couloir et SAS REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 |

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 | - | - |

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 **749.3** CFM
 Ventilation Airflow **0.0** 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**

45 Couloir et SAS REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

| Zone | Supply Airflow (CFM) | Zone Htg Unit (MBH) | Reheat Coil (MBH) | FPMBX Fan (CFM) |
|------|----------------------|---------------------|-------------------|-----------------|
| 1 | 175.7 | - | 0.0 | - |
| 2 | 174.0 | - | 0.0 | - |
| 3 | 250.1 | - | 10.8 | - |
| 4 | 24.0 | - | 0.0 | - |
| 5 | 186.2 | - | 8.1 | - |
| 6 | 13.4 | - | 0.0 | - |
| 7 | 17.4 | - | 0.0 | - |

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **7.8** 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

46 Couloir et SAS CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name **46 Couloir et SAS CPT**
 Equipment Type **Packaged Rooftop Units**
 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 **55.0** 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 |
| 3 | 4E Corridor |
| 4 | RDC Corridor |
| 5 | RDC SAS |
| 6 | SS SAS1 |
| 7 | SS SAS2 |

Number of zones **7**

46 Couloir et SAS CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

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 |

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 | - | - |

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 **749.3** CFM
 Ventilation Airflow **0.0** 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**

46 Couloir et SAS CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

| Zone | Supply Airflow (CFM) | Zone Htg Unit (MBH) | Reheat Coil (MBH) | FPMBX Fan (CFM) |
|------|----------------------|---------------------|-------------------|-----------------|
| 1 | 175.7 | - | 0.0 | - |
| 2 | 174.0 | - | 0.0 | - |
| 3 | 250.1 | - | 10.8 | - |
| 4 | 24.0 | - | 0.0 | - |
| 5 | 186.2 | - | 8.1 | - |
| 6 | 13.4 | - | 0.0 | - |
| 7 | 17.4 | - | 0.0 | - |

5. Equipment Data

Central Cooling Unit - Air-Cooled DX

Estimated Maximum Load **7.8** 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

47 3E ESC2 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name **47 3E ESC2 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 **2.00** in wg
 Overall Efficiency **100** %
 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 |

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 **192.5** CFM
 Ventilation Airflow **0.0** CFM
 Heating Supply Temperature **95.0** F

47 3E ESC2 REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
Prepared by: Groupe CMI

02/23/2026
11:41 AM

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 | 192.5 | - | - | - |

5. Equipment Data

No equipment data required for this system.

48 3E ESC2 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:41 AM

1. General Details:

Air System Name **48 3E ESC2 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 **2.00** in wg
 Overall Efficiency **100** %
 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 |

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 **192.5** CFM
 Ventilation Airflow **0.0** CFM
 Heating Supply Temperature **95.0** F

48 3E ESC2 CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
Prepared by: Groupe CMI

02/23/2026
11:41 AM

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 | 192.5 | - | - | - |

5. Equipment Data

No equipment data required for this system.

a) Alternative REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:46 AM

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 x 8 Log REF | 1 |
| 03 3E 301 REF | 1 |
| 05 3E 302 REF | 1 |
| 07 3E 303 REF | 1 |
| 09 3E 304 REF | 1 |
| 11 3E 305 REF | 1 |
| 13 3E 306 REF | 1 |
| 15 3E 307 REF | 1 |
| 17 3E 308 REF | 1 |
| 19 4E 401 REF | 1 |
| 21 4E 402 REF | 1 |
| 23 4E 403 REF | 1 |
| 25 4E 404 REF | 1 |
| 27 4E 405 REF | 1 |
| 29 4E 406 REF | 1 |
| 31 4E 407 REF | 1 |
| 33 4E 408 REF | 1 |
| 35 RDC x 8 Log REF | 1 |
| 37 3E ESC1 REF | 1 |
| 39 4E ESC1 REF | 1 |
| 41 4E ESC2 REF | 1 |
| 43 SS Stationnement REF | 1 |
| 45 Couloir et SAS REF | 7 |
| 47 3E ESC2 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 Corridor | 45 Couloir et SAS REF |
| 2E x 8 Log | 01 2E x 8 Log REF |
| 3E 301 | 03 3E 301 REF |
| 3E 302 | 05 3E 302 REF |
| 3E 303 | 07 3E 303 REF |
| 3E 304 | 09 3E 304 REF |
| 3E 305 | 11 3E 305 REF |
| 3E 306 | 13 3E 306 REF |
| 3E 307 | 15 3E 307 REF |
| 3E 308 | 17 3E 308 REF |
| 3E Corridor | 45 Couloir et SAS REF |
| 3E ESC1 | 37 3E ESC1 REF |
| 3E ESC2 | 47 3E ESC2 REF |
| 4E 401 | 19 4E 401 REF |

a) Alternative REF Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
Prepared by: Groupe CMI

02/23/2026
11:46 AM

| | |
|------------------|-------------------------|
| 4E 402 | 21 4E 402 REF |
| 4E 403 | 23 4E 403 REF |
| 4E 404 | 25 4E 404 REF |
| 4E 405 | 27 4E 405 REF |
| 4E 406 | 29 4E 406 REF |
| 4E 407 | 31 4E 407 REF |
| 4E 408 | 33 4E 408 REF |
| 4E Corridor | 45 Couloir et SAS REF |
| 4E ESC1 | 39 4E ESC1 REF |
| 4E ESC2 | 41 4E ESC2 REF |
| RDC Corridor | 45 Couloir et SAS REF |
| RDC SAS | 45 Couloir et SAS REF |
| RDC x 8 Log | 35 RDC x 8 Log REF |
| SS SAS1 | 45 Couloir et SAS REF |
| SS SAS2 | 45 Couloir et SAS REF |
| SS Stationnement | 43 SS Stationnement 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

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:46 AM

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 |
|-------------------------|---------|
| 02 2E x 8 Log CPT | 1 |
| 04 3E 301 CPT | 1 |
| 06 3E 302 CPT | 1 |
| 08 3E 303 CPT | 1 |
| 10 3E 304 CPT | 1 |
| 12 3E 305 CPT | 1 |
| 14 3E 306 CPT | 1 |
| 16 3E 307 CPT | 1 |
| 18 3E 308 CPT | 1 |
| 20 4E 401 CPT | 1 |
| 22 4E 402 CPT | 1 |
| 24 4E 403 CPT | 1 |
| 26 4E 404 CPT | 1 |
| 28 4E 405 CPT | 1 |
| 30 4E 406 CPT | 1 |
| 32 4E 407 CPT | 1 |
| 34 4E 408 CPT | 1 |
| 36 RDC x 8 Log CPT | 1 |
| 38 3E ESC1 CPT | 1 |
| 40 4E ESC1 CPT | 1 |
| 42 4E ESC2 CPT | 1 |
| 44 SS Stationnement CPT | 1 |
| 46 Couloir et SAS CPT | 7 |
| 48 3E ESC2 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 Corridor | 46 Couloir et SAS CPT |
| 2E x 8 Log | 02 2E x 8 Log CPT |
| 3E 301 | 04 3E 301 CPT |
| 3E 302 | 06 3E 302 CPT |
| 3E 303 | 08 3E 303 CPT |
| 3E 304 | 10 3E 304 CPT |
| 3E 305 | 12 3E 305 CPT |
| 3E 306 | 14 3E 306 CPT |
| 3E 307 | 16 3E 307 CPT |
| 3E 308 | 18 3E 308 CPT |
| 3E Corridor | 46 Couloir et SAS CPT |
| 3E ESC1 | 38 3E ESC1 CPT |
| 3E ESC2 | 48 3E ESC2 CPT |
| 4E 401 | 20 4E 401 CPT |

b) Alternative CPT Input Data

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
Prepared by: Groupe CMI

02/23/2026
11:46 AM

| | |
|------------------|-------------------------|
| 4E 402 | 22 4E 402 CPT |
| 4E 403 | 24 4E 403 CPT |
| 4E 404 | 26 4E 404 CPT |
| 4E 405 | 28 4E 405 CPT |
| 4E 406 | 30 4E 406 CPT |
| 4E 407 | 32 4E 407 CPT |
| 4E 408 | 34 4E 408 CPT |
| 4E Corridor | 46 Couloir et SAS CPT |
| 4E ESC1 | 40 4E ESC1 CPT |
| 4E ESC2 | 42 4E ESC2 CPT |
| RDC Corridor | 46 Couloir et SAS CPT |
| RDC SAS | 46 Couloir et SAS CPT |
| RDC x 8 Log | 36 RDC x 8 Log CPT |
| SS SAS1 | 46 Couloir et SAS CPT |
| SS SAS2 | 46 Couloir et SAS CPT |
| SS Stationnement | 44 SS Stationnement 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 x 8 Log REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

Air System Information

Air System Name **01 2E x 8 Log REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**
Number of zones **1**
Floor Area **7510.8** sqft
Location **Quebec City Beauport, QC, Canada**

Sizing Calculation 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 | Peak coil load occurs at | July 17:00 |
| Total coil load | 34.9 MBH | OA DB / WB | 84.9 / 69.7 F |
| Sensible coil load | 34.9 MBH | Entering DB / WB | 75.6 / 66.9 F |
| Coil CFM at peak load | 3032 CFM | Leaving DB / WB | 65.2 / 63.4 F |
| Sum of peak zone CFM | 3032 CFM | Resulting RH | 65 % |
| Sensible heat ratio | 1.000 | Design supply temp. | 58.0 F |
| CFM/Ton | 1042.8 | Zone T-stat Check | 1 of 1 OK |
| sqft/Ton | 2583.7 | Max zone temperature deviation | 0.0 F |
| BTU/(hr sqft) | 4.6 | | |
| Water flow @ 10.0 F rise | N/A | | |

Central Heating Coil Sizing Data

| | | | |
|----------------------------|------------------|------------------|-----------------------|
| Max coil load | 103.0 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 3032 CFM | BTU/(hr sqft) | 13.7 |
| Max coil CFM | 3032 CFM | Ent. DB / Lvg DB | 64.8 / 96.2 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------|----------------------|---------------|-----------------|
| Design CFM | 3032 CFM | Fan motor BHP | 0.00 BHP |
| Design CFM/sqft | 0.40 CFM/sqft | Fan motor kW | 0.00 kW |

Outdoor Ventilation Air Data

| | | | |
|--------------------|----------------------|------------|------------------------|
| Design airflow CFM | 400 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.05 CFM/sqft | | |

Zone Sizing Summary for 01 2E x 8 Log REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

Air System Information

Air System Name **01 2E x 8 Log REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **7510.8** sqft
 Location **Quebec City Beauport, QC, Canada**

Sizing Calculation 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 x 8 Log | 3032 | 3032 | 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) |
|------------|-----------------------------|------------------------------------|-------------------------|------------------------|
| 2E x 8 Log | 33.3 | July 17:00 | 81.8 | 7510.8 |

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 x 8 Log | | | | | | |
| 2E x 8 Log | 33.3 | July 17:00 | 3032 | 81.8 | 7510.8 | 0.40 |

Air System Heat Balance Summary for 01 2E x 8 Log REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - JULY 17:00 | | | DESIGN HEATING | | |
|------------------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 84.9 F / 69.7 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Zone Conditioning | - | 32987 | -8 | - | 85858 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 3032 CFM | 0 | - | 3032 CFM | 0 | - |
| Ventilation Load | 400 CFM | 1851 | 12 | 400 CFM | 17087 | 0 |
| Supply Fan Load | 3032 CFM | 0 | - | 3032 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 34838 | 4 | - | 102945 | 0 |
| Central Cooling Coil | - | 34884 | 0 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 102993 | - |
| >> Total Conditioning | - | 34884 | 0 | - | 102993 | 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 | | |
|----------------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 84.9 F / 69.7 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Exterior Wall Convection | 2216 sqft | 3627 | - | 2216 sqft | 6493 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 581 sqft | 2876 | - | 581 sqft | 6281 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 336 sqft | 1238 | - | 336 sqft | 3638 | - |
| Floor Convection | 7511 sqft | 8877 | - | 7511 sqft | 7814 | - |
| Interior Wall Convection | 1948 sqft | 1581 | - | 1948 sqft | 1075 | - |
| Ceiling Convection | 7511 sqft | 10733 | - | 7511 sqft | 9217 | - |
| 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 | 313 CFM | 36572 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 4340 | 0 | 15% | 10663 | 0 |
| >> Total Zone Loads | - | 33273 | 0 | - | 81753 | 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 x 8 Log REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

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 | 84.8 | 0.01211 | 400 | 400 | 1851 | 12 |
| Air-to-Air Energy Recovery | Outlet | 79.3 | 0.01211 | 400 | 400 | 2415 | 0 |
| Vent - Return Mixing | Outlet | 75.6 | 0.01211 | 3032 | 400 | - | - |
| Central Cooling Coil | Outlet | 65.2 | 0.01211 | 3032 | 400 | 34884 | 0 |
| Central Heating Coil | Outlet | 65.2 | 0.01211 | 3032 | 400 | 0 | - |
| Supply Fan | Outlet | 65.2 | 0.01211 | 3032 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 65.2 | 0.01211 | 3032 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01211 | 3032 | 400 | 32987 | -8 |
| Return Air | Outlet | 75.0 | 0.01211 | 3032 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 x 8 Log | 32987 | Cooling | 32987 | 75.0 | 3032 | 400 | 0 | 0 |

System Psychrometrics for 01 2E x 8 Log REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

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 | -17087 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 400 | 400 | -21808 | 0 |
| Vent - Return Mixing | Outlet | 64.8 | 0.00026 | 3032 | 400 | - | - |
| Central Cooling Coil | Outlet | 64.8 | 0.00026 | 3032 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 96.2 | 0.00026 | 3032 | 400 | 102993 | - |
| Supply Fan | Outlet | 96.2 | 0.00026 | 3032 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 96.2 | 0.00026 | 3032 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 3032 | 400 | -85858 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 3032 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 x 8 Log | -85858 | Heating | -85858 | 70.0 | 3032 | 400 | 0 | 0 |

Air System Sizing Summary for 03 3E 301 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

Air System Information

| | | | |
|-----------------------|----------------------|-----------------------|---|
| Air System Name | 03 3E 301 REF | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 955.8 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Cooling Coil Sizing Data

| | | | |
|--------------------------------|-----------------|--------------------------------------|----------------------|
| Total coil load | 0.6 Tons | Peak coil load occurs at | August 10:00 |
| Total coil load | 7.2 MBH | OA DB / WB | 76.7 / 67.2 F |
| Sensible coil load | 6.6 MBH | Entering DB / WB | 75.1 / 65.2 F |
| Coil CFM at peak load | 394 CFM | Leaving DB / WB | 59.9 / 59.4 F |
| Sum of peak zone CFM | 394 CFM | Resulting RH | 58 % |
| Sensible heat ratio | 0.916 | Design supply temp. | 58.0 F |
| CFM/Ton | 656.7 | Zone T-stat Check | 1 of 1 OK |
| sqft/Ton | 1592.4 | Max zone temperature deviation | 0.0 F |
| BTU/(hr sqft) | 7.5 | | |
| Water flow @ 10.0 F rise | N/A | | |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|-----------------|------------------------|-----------------------|
| Max coil load | 10.4 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 394 CFM | BTU/(hr sqft) | 10.8 |
| Max coil CFM | 394 CFM | Ent. DB / Lvg DB | 65.0 / 89.3 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|---------------------|-----------------|
| Design CFM | 394 CFM | Fan motor BHP | 0.00 BHP |
| Design CFM/sqft | 0.41 CFM/sqft | Fan motor kW | 0.00 kW |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 50 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.05 CFM/sqft | | |

Zone Sizing Summary for 03 3E 301 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

Air System Information

| | |
|--|--|
| Air System Name 03 3E 301 REF | Number of zones 1 |
| Equipment Class SPLT AHU | Floor Area 955.8 sqft |
| Air System Type SZCAV | Location Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | |
|--|---|
| Calculation Months Jan to Dec | Zone CFM Sizing Sum of space airflow rates |
| 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) |
|-----------|-----------------------------|------------------------------|---------------|----------------------------|--------------------------------|-----------------------------------|----------------------------------|------------------------------|
| 3E 301 | 394 | 394 | 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) |
|-----------|-----------------------------|------------------------------------|-------------------------|------------------------|
| 3E 301 | 7.2 | September 10:00 | 7.6 | 955.8 |

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 |
|------------------------|------------------------|----------------------------|----------------|--------------------|-------------------|----------------|
| 3E 301 | | | | | | |
| 3E 301 | 7.2 | September 10:00 | 394 | 7.6 | 955.8 | 0.41 |

Air System Heat Balance Summary for 03 3E 301 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - AUGUST 10:00 | | | DESIGN HEATING | | |
|------------------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | OA DB / WB 76.7 F / 67.2 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 | - | 6550 | 184 | - | 8223 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 394 CFM | 0 | - | 394 CFM | 0 | - |
| Ventilation Load | 50 CFM | 44 | 294 | 50 CFM | 2136 | 0 |
| Supply Fan Load | 394 CFM | 0 | - | 394 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 6594 | 477 | - | 10359 | 0 |
| Central Cooling Coil | - | 6597 | 606 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 10365 | - |
| >> Total Conditioning | - | 6597 | 606 | - | 10365 | 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 76.7 F / 67.2 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 | 191 sqft | 291 | - | 191 sqft | 495 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 50 sqft | 475 | - | 50 sqft | 531 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 42 sqft | 397 | - | 42 sqft | 447 | - |
| Floor Convection | 956 sqft | 2224 | - | 956 sqft | 628 | - |
| Interior Wall Convection | 735 sqft | 878 | - | 735 sqft | 324 | - |
| Ceiling Convection | 956 sqft | 1826 | - | 956 sqft | 875 | - |
| 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 | 28 CFM | 3304 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 914 | 0 | 15% | 990 | 0 |
| >> Total Zone Loads | - | 7006 | 0 | - | 7593 | 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 3E 301 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

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 | 76.9 | 0.01209 | 50 | 400 | 44 | 294 |
| Air-to-Air Energy Recovery | Outlet | 75.8 | 0.01209 | 50 | 400 | 58 | 0 |
| Vent - Return Mixing | Outlet | 75.1 | 0.01101 | 394 | 400 | - | - |
| Central Cooling Coil | Outlet | 59.9 | 0.01070 | 394 | 400 | 6597 | 606 |
| Central Heating Coil | Outlet | 59.9 | 0.01070 | 394 | 400 | 0 | - |
| Supply Fan | Outlet | 59.9 | 0.01070 | 394 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 59.9 | 0.01070 | 394 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01080 | 394 | 400 | 6550 | 184 |
| Return Air | Outlet | 75.0 | 0.01085 | 394 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | 6548 | Cooling | 6550 | 75.0 | 394 | 400 | 0 | 0 |

System Psychrometrics for 03 3E 301 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

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 | 50 | 400 | -2136 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 50 | 400 | -2726 | 0 |
| Vent - Return Mixing | Outlet | 65.0 | 0.00026 | 394 | 400 | - | - |
| Central Cooling Coil | Outlet | 65.0 | 0.00026 | 394 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 89.3 | 0.00026 | 394 | 400 | 10365 | - |
| Supply Fan | Outlet | 89.3 | 0.00026 | 394 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 89.3 | 0.00026 | 394 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 394 | 400 | -8223 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 394 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | -8223 | Heating | -8223 | 70.0 | 394 | 400 | 0 | 0 |

Air System Sizing Summary for 05 3E 302 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

Air System Information

| | | | |
|-----------------------|----------------------|-----------------------|---|
| Air System Name | 05 3E 302 REF | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 698.5 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Cooling Coil Sizing Data

| | | | |
|--------------------------------|-----------------|--------------------------------------|----------------------|
| Total coil load | 0.4 Tons | Peak coil load occurs at | August 10:00 |
| Total coil load | 5.3 MBH | OA DB / WB | 76.7 / 67.2 F |
| Sensible coil load | 4.8 MBH | Entering DB / WB | 75.1 / 65.3 F |
| Coil CFM at peak load | 290 CFM | Leaving DB / WB | 60.1 / 59.6 F |
| Sum of peak zone CFM | 290 CFM | Resulting RH | 59 % |
| Sensible heat ratio | 0.907 | Design supply temp. | 58.0 F |
| CFM/Ton | 655.7 | Zone T-stat Check | 1 of 1 OK |
| sqft/Ton | 1581.5 | Max zone temperature deviation | 0.0 F |
| BTU/(hr sqft) | 7.6 | | |
| Water flow @ 10.0 F rise | N/A | | |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|----------------|------------------------|-----------------------|
| Max coil load | 8.2 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 290 CFM | BTU/(hr sqft) | 11.7 |
| Max coil CFM | 290 CFM | Ent. DB / Lvg DB | 63.2 / 89.2 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|---------------------|-----------------|
| Design CFM | 290 CFM | Fan motor BHP | 0.00 BHP |
| Design CFM/sqft | 0.41 CFM/sqft | Fan motor kW | 0.00 kW |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 50 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.07 CFM/sqft | | |

Zone Sizing Summary for 05 3E 302 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

Air System Information

Air System Name **05 3E 302 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **698.5** sqft
 Location **Quebec City Beauport, QC, Canada**

Sizing Calculation 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 302 | 290 | 290 | 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) |
|-----------|-----------------------------|------------------------------------|-------------------------|------------------------|
| 3E 302 | 5.3 | September 10:00 | 5.6 | 698.5 |

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 302 | | | | | | |
| 3E 302 | 5.3 | September 10:00 | 290 | 5.6 | 698.5 | 0.41 |

Air System Heat Balance Summary for 05 3E 302 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - AUGUST 10:00 | | | DESIGN HEATING | | |
|-------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 76.7 F / 67.2 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Zone Conditioning | - | 4758 | 124 | - | 6026 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 290 CFM | 0 | - | 290 CFM | 0 | - |
| Ventilation Load | 50 CFM | 44 | 280 | 50 CFM | 2136 | 0 |
| Supply Fan Load | 290 CFM | 0 | - | 290 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 4803 | 404 | - | 8162 | 0 |
| Central Cooling Coil | - | 4806 | 494 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 8168 | - |
| >> Total Conditioning | - | 4806 | 494 | - | 8168 | 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 | | |
|-------------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 76.7 F / 67.2 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Exterior Wall Convection | 140 sqft | 208 | - | 140 sqft | 361 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 25 sqft | 237 | - | 25 sqft | 265 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 42 sqft | 395 | - | 42 sqft | 446 | - |
| Floor Convection | 698 sqft | 1583 | - | 698 sqft | 446 | - |
| Interior Wall Convection | 659 sqft | 740 | - | 659 sqft | 286 | - |
| Ceiling Convection | 698 sqft | 1283 | - | 698 sqft | 625 | - |
| 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 | 2415 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 667 | 0 | 15% | 727 | 0 |
| >> Total Zone Loads | - | 5113 | 0 | - | 5570 | 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 3E 302 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

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 | 76.9 | 0.01209 | 50 | 400 | 44 | 280 |
| Air-to-Air Energy Recovery | Outlet | 75.8 | 0.01209 | 50 | 400 | 58 | 0 |
| Vent - Return Mixing | Outlet | 75.1 | 0.01112 | 290 | 400 | - | - |
| Central Cooling Coil | Outlet | 60.1 | 0.01077 | 290 | 400 | 4806 | 494 |
| Central Heating Coil | Outlet | 60.1 | 0.01077 | 290 | 400 | 0 | - |
| Supply Fan | Outlet | 60.1 | 0.01077 | 290 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 60.1 | 0.01077 | 290 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01086 | 290 | 400 | 4758 | 124 |
| Return Air | Outlet | 75.0 | 0.01091 | 290 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 302 | 4757 | Cooling | 4758 | 75.0 | 290 | 400 | 0 | 0 |

System Psychrometrics for 05 3E 302 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

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 | 50 | 400 | -2136 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 50 | 400 | -2726 | 0 |
| Vent - Return Mixing | Outlet | 63.2 | 0.00026 | 290 | 400 | - | - |
| Central Cooling Coil | Outlet | 63.2 | 0.00026 | 290 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 89.2 | 0.00026 | 290 | 400 | 8168 | - |
| Supply Fan | Outlet | 89.2 | 0.00026 | 290 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 89.2 | 0.00026 | 290 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 290 | 400 | -6026 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 290 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 302 | -6026 | Heating | -6026 | 70.0 | 290 | 400 | 0 | 0 |

Air System Sizing Summary for 07 3E 303 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

Air System Information

Air System Name **07 3E 303 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**
Number of zones **1**
Floor Area **925.3** sqft
Location **Quebec City Beauport, QC, Canada**

Sizing Calculation 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 | Peak coil load occurs at | August 10:00 |
| Total coil load | 7.1 MBH | OA DB / WB | 76.7 / 67.2 F |
| Sensible coil load | 6.5 MBH | Entering DB / WB | 75.1 / 65.3 F |
| Coil CFM at peak load | 393 CFM | Leaving DB / WB | 60.1 / 59.6 F |
| Sum of peak zone CFM | 393 CFM | Resulting RH | 59 % |
| Sensible heat ratio | 0.918 | Design supply temp. | 58.0 F |
| CFM/Ton | 665.8 | Zone T-stat Check | 1 of 1 OK |
| sqft/Ton | 1567.5 | Max zone temperature deviation | 0.0 F |
| BTU/(hr sqft) | 7.7 | | |
| Water flow @ 10.0 F rise | N/A | | |

Central Heating Coil Sizing Data

| | | | |
|----------------------------|-----------------|------------------|-----------------------|
| Max coil load | 10.2 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 393 CFM | BTU/(hr sqft) | 11.0 |
| Max coil CFM | 393 CFM | Ent. DB / Lvg DB | 65.0 / 88.9 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------|----------------------|---------------|-----------------|
| Design CFM | 393 CFM | Fan motor BHP | 0.00 BHP |
| Design CFM/sqft | 0.42 CFM/sqft | Fan motor kW | 0.00 kW |

Outdoor Ventilation Air Data

| | | | |
|--------------------|----------------------|------------|------------------------|
| Design airflow CFM | 50 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.05 CFM/sqft | | |

Zone Sizing Summary for 07 3E 303 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

Air System Information

Air System Name **07 3E 303 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **925.3** sqft
 Location **Quebec City Beauport, QC, Canada**

Sizing Calculation 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 303 | 393 | 393 | 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) |
|-----------|-----------------------------|------------------------------------|-------------------------|------------------------|
| 3E 303 | 7.2 | September 10:00 | 7.4 | 925.3 |

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 |
|------------------------|------------------------|----------------------------|----------------|--------------------|-------------------|----------------|
| 3E 303 | | | | | | |
| 3E 303 | 7.2 | September 10:00 | 393 | 7.4 | 925.3 | 0.42 |

Air System Heat Balance Summary for 07 3E 303 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - AUGUST 10:00 | | | DESIGN HEATING | | |
|------------------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 76.7 F / 67.2 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Zone Conditioning | - | 6455 | 175 | - | 8038 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 393 CFM | 0 | - | 393 CFM | 0 | - |
| Ventilation Load | 50 CFM | 44 | 281 | 50 CFM | 2136 | 0 |
| Supply Fan Load | 393 CFM | 0 | - | 393 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 6499 | 456 | - | 10173 | 0 |
| Central Cooling Coil | - | 6502 | 581 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 10179 | - |
| >> Total Conditioning | - | 6502 | 581 | - | 10179 | 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 | | |
|----------------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 76.7 F / 67.2 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Exterior Wall Convection | 182 sqft | 281 | - | 182 sqft | 473 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 50 sqft | 476 | - | 50 sqft | 530 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 42 sqft | 399 | - | 42 sqft | 447 | - |
| Floor Convection | 925 sqft | 2211 | - | 925 sqft | 618 | - |
| Interior Wall Convection | 726 sqft | 848 | - | 726 sqft | 328 | - |
| Ceiling Convection | 925 sqft | 1802 | - | 925 sqft | 858 | - |
| 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 | 27 CFM | 3199 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 903 | 0 | 15% | 968 | 0 |
| >> Total Zone Loads | - | 6919 | 0 | - | 7420 | 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 3E 303 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

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 | 76.9 | 0.01209 | 50 | 400 | 44 | 281 |
| Air-to-Air Energy Recovery | Outlet | 75.8 | 0.01209 | 50 | 400 | 58 | 0 |
| Vent - Return Mixing | Outlet | 75.1 | 0.01106 | 393 | 400 | - | - |
| Central Cooling Coil | Outlet | 60.1 | 0.01076 | 393 | 400 | 6502 | 581 |
| Central Heating Coil | Outlet | 60.1 | 0.01076 | 393 | 400 | 0 | - |
| Supply Fan | Outlet | 60.1 | 0.01076 | 393 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 60.1 | 0.01076 | 393 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01085 | 393 | 400 | 6455 | 175 |
| Return Air | Outlet | 75.0 | 0.01091 | 393 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 303 | 6453 | Cooling | 6455 | 75.0 | 393 | 400 | 0 | 0 |

System Psychrometrics for 07 3E 303 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

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 | 50 | 400 | -2136 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 50 | 400 | -2726 | 0 |
| Vent - Return Mixing | Outlet | 65.0 | 0.00026 | 393 | 400 | - | - |
| Central Cooling Coil | Outlet | 65.0 | 0.00026 | 393 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 88.9 | 0.00026 | 393 | 400 | 10179 | - |
| Supply Fan | Outlet | 88.9 | 0.00026 | 393 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 88.9 | 0.00026 | 393 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 393 | 400 | -8038 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 393 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 303 | -8038 | Heating | -8038 | 70.0 | 393 | 400 | 0 | 0 |

Air System Sizing Summary for 09 3E 304 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

Air System Information

Air System Name **09 3E 304 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**
Number of zones **1**
Floor Area **971.0** sqft
Location **Quebec City Beauport, QC, Canada**

Sizing Calculation 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 | 0.8 Tons | Peak coil load occurs at | September 12:00 |
| Total coil load | 9.1 MBH | OA DB / WB | 76.0 / 65.8 F |
| Sensible coil load | 8.7 MBH | Entering DB / WB | 75.0 / 64.8 F |
| Coil CFM at peak load | 515 CFM | Leaving DB / WB | 59.8 / 59.2 F |
| Sum of peak zone CFM | 515 CFM | Resulting RH | 58 % |
| Sensible heat ratio | 0.954 | Design supply temp. | 58.0 F |
| CFM/Ton | 681.1 | Zone T-stat Check | 1 of 1 OK |
| sqft/Ton | 1283.7 | Max zone temperature deviation | 0.0 F |
| BTU/(hr sqft) | 9.3 | | |
| Water flow @ 10.0 F rise | N/A | | |

Central Heating Coil Sizing Data

| | | | |
|----------------------------|-----------------|------------------|-----------------------|
| Max coil load | 16.3 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 515 CFM | BTU/(hr sqft) | 16.8 |
| Max coil CFM | 515 CFM | Ent. DB / Lvg DB | 66.2 / 95.4 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------|----------------------|---------------|-----------------|
| Design CFM | 515 CFM | Fan motor BHP | 0.00 BHP |
| Design CFM/sqft | 0.53 CFM/sqft | Fan motor kW | 0.00 kW |

Outdoor Ventilation Air Data

| | | | |
|--------------------|----------------------|------------|------------------------|
| Design airflow CFM | 50 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.05 CFM/sqft | | |

Zone Sizing Summary for 09 3E 304 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

Air System Information

Air System Name **09 3E 304 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **971.0** sqft
 Location **Quebec City Beauport, QC, Canada**

Sizing Calculation 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 304 | 515 | 515 | 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) |
|-----------|-----------------------------|------------------------------------|-------------------------|------------------------|
| 3E 304 | 9.2 | September 13:00 | 13.9 | 971.0 |

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 304 | | | | | | |
| 3E 304 | 9.2 | September 13:00 | 515 | 13.9 | 971.0 | 0.53 |

Air System Heat Balance Summary for 09 3E 304 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - SEPTEMBER 12:00 | | | DESIGN HEATING | | |
|------------------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 76.0 F / 65.8 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Zone Conditioning | - | 8634 | 165 | - | 14166 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 515 CFM | 0 | - | 515 CFM | 0 | - |
| Ventilation Load | 50 CFM | 26 | 119 | 50 CFM | 2136 | 0 |
| Supply Fan Load | 515 CFM | 0 | - | 515 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 8661 | 284 | - | 16302 | 0 |
| Central Cooling Coil | - | 8662 | 415 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 16308 | - |
| >> Total Conditioning | - | 8662 | 415 | - | 16308 | 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 12:00 | | | DESIGN HEATING | | |
|----------------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 76.0 F / 65.8 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Exterior Wall Convection | 377 sqft | 810 | - | 377 sqft | 1167 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 120 sqft | 998 | - | 120 sqft | 1330 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 42 sqft | 384 | - | 42 sqft | 461 | - |
| Floor Convection | 971 sqft | 2171 | - | 971 sqft | 1099 | - |
| Interior Wall Convection | 539 sqft | 954 | - | 539 sqft | 390 | - |
| Ceiling Convection | 971 sqft | 2640 | - | 971 sqft | 1345 | - |
| 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 | 54 CFM | 6288 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 1193 | 0 | 15% | 1812 | 0 |
| >> Total Zone Loads | - | 9150 | 0 | - | 13893 | 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 3E 304 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

DESIGN COOLING DAY AT SEPTEMBER 12:00

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 | 76.1 | 0.01122 | 50 | 400 | 26 | 119 |
| Air-to-Air Energy Recovery | Outlet | 75.5 | 0.01122 | 50 | 400 | 34 | 0 |
| Vent - Return Mixing | Outlet | 75.0 | 0.01077 | 515 | 400 | - | - |
| Central Cooling Coil | Outlet | 59.8 | 0.01061 | 515 | 400 | 8662 | 415 |
| Central Heating Coil | Outlet | 59.8 | 0.01061 | 515 | 400 | 0 | - |
| Supply Fan | Outlet | 59.8 | 0.01061 | 515 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 59.8 | 0.01061 | 515 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01067 | 515 | 400 | 8634 | 165 |
| Return Air | Outlet | 75.0 | 0.01072 | 515 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 304 | 8633 | Cooling | 8634 | 75.0 | 515 | 400 | 0 | 0 |

System Psychrometrics for 09 3E 304 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

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 | 50 | 400 | -2136 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 50 | 400 | -2726 | 0 |
| Vent - Return Mixing | Outlet | 66.2 | 0.00026 | 515 | 400 | - | - |
| Central Cooling Coil | Outlet | 66.2 | 0.00026 | 515 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 95.4 | 0.00026 | 515 | 400 | 16308 | - |
| Supply Fan | Outlet | 95.4 | 0.00026 | 515 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 95.4 | 0.00026 | 515 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 515 | 400 | -14166 | 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 = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 304 | -14166 | Heating | -14166 | 70.0 | 515 | 400 | 0 | 0 |

Air System Sizing Summary for 11 3E 305 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

Air System Information

Air System Name **11 3E 305 REF**
Equipment Class **SPLT AHU**
Air System Type **SZCAV**
Number of zones **1**
Floor Area **989.6** sqft
Location **Quebec City Beauport, QC, Canada**

Sizing Calculation 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 | 0.8 Tons | Peak coil load occurs at | July 17:00 |
| Total coil load | 10.1 MBH | OA DB / WB | 84.9 / 69.7 F |
| Sensible coil load | 9.5 MBH | Entering DB / WB | 75.4 / 65.0 F |
| Coil CFM at peak load | 540 CFM | Leaving DB / WB | 59.5 / 59.0 F |
| Sum of peak zone CFM | 540 CFM | Resulting RH | 57 % |
| Sensible heat ratio | 0.938 | Design supply temp. | 58.0 F |
| CFM/Ton | 640.4 | Zone T-stat Check | 1 of 1 OK |
| sqft/Ton | 1173.5 | Max zone temperature deviation | 0.0 F |
| BTU/(hr sqft) | 10.2 | | |
| Water flow @ 10.0 F rise | N/A | | |

Central Heating Coil Sizing Data

| | | | |
|----------------------------|-----------------|------------------|-----------------------|
| Max coil load | 16.4 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 540 CFM | BTU/(hr sqft) | 16.6 |
| Max coil CFM | 540 CFM | Ent. DB / Lvg DB | 66.3 / 94.5 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------|----------------------|---------------|-----------------|
| Design CFM | 540 CFM | Fan motor BHP | 0.00 BHP |
| Design CFM/sqft | 0.55 CFM/sqft | Fan motor kW | 0.00 kW |

Outdoor Ventilation Air Data

| | | | |
|--------------------|----------------------|------------|------------------------|
| Design airflow CFM | 50 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.05 CFM/sqft | | |

Zone Sizing Summary for 11 3E 305 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

Air System Information

Air System Name **11 3E 305 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **989.6** sqft
 Location **Quebec City Beauport, QC, Canada**

Sizing Calculation 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 305 | 540 | 540 | 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) |
|-----------|-----------------------------|------------------------------------|-------------------------|------------------------|
| 3E 305 | 9.9 | July 17:00 | 14.0 | 989.6 |

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 305 | | | | | | |
| 3E 305 | 9.9 | July 17:00 | 540 | 14.0 | 989.6 | 0.55 |

Air System Heat Balance Summary for 11 3E 305 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - JULY 17:00 | | | DESIGN HEATING | | |
|-------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 84.9 F / 69.7 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Zone Conditioning | - | 9251 | 143 | - | 14308 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 540 CFM | 0 | - | 540 CFM | 0 | - |
| Ventilation Load | 50 CFM | 231 | 346 | 50 CFM | 2136 | 0 |
| Supply Fan Load | 540 CFM | 0 | - | 540 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 9482 | 489 | - | 16444 | 0 |
| Central Cooling Coil | - | 9491 | 628 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 16450 | - |
| >> Total Conditioning | - | 9491 | 628 | - | 16450 | 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 | | |
|-------------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 84.9 F / 69.7 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Exterior Wall Convection | 378 sqft | 985 | - | 378 sqft | 1168 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 120 sqft | 1078 | - | 120 sqft | 1335 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 42 sqft | 353 | - | 42 sqft | 472 | - |
| Floor Convection | 990 sqft | 2239 | - | 990 sqft | 1106 | - |
| Interior Wall Convection | 599 sqft | 1087 | - | 599 sqft | 419 | - |
| Ceiling Convection | 990 sqft | 2869 | - | 990 sqft | 1353 | - |
| 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 | 54 CFM | 6309 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 1292 | 0 | 15% | 1824 | 0 |
| >> Total Zone Loads | - | 9903 | 0 | - | 13985 | 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 3E 305 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

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 | 84.8 | 0.01211 | 50 | 400 | 231 | 346 |
| Air-to-Air Energy Recovery | Outlet | 79.3 | 0.01211 | 50 | 400 | 301 | 0 |
| Vent - Return Mixing | Outlet | 75.4 | 0.01079 | 540 | 400 | - | - |
| Central Cooling Coil | Outlet | 59.5 | 0.01055 | 540 | 400 | 9491 | 628 |
| Central Heating Coil | Outlet | 59.5 | 0.01055 | 540 | 400 | 0 | - |
| Supply Fan | Outlet | 59.5 | 0.01055 | 540 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 59.5 | 0.01055 | 540 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01061 | 540 | 400 | 9251 | 143 |
| Return Air | Outlet | 75.0 | 0.01065 | 540 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 305 | 9249 | Cooling | 9251 | 75.0 | 540 | 400 | 0 | 0 |

System Psychrometrics for 11 3E 305 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

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 | 50 | 400 | -2136 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 50 | 400 | -2726 | 0 |
| Vent - Return Mixing | Outlet | 66.3 | 0.00026 | 540 | 400 | - | - |
| Central Cooling Coil | Outlet | 66.3 | 0.00026 | 540 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 94.5 | 0.00026 | 540 | 400 | 16450 | - |
| Supply Fan | Outlet | 94.5 | 0.00026 | 540 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 94.5 | 0.00026 | 540 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 540 | 400 | -14308 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 540 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 305 | -14308 | Heating | -14308 | 70.0 | 540 | 400 | 0 | 0 |

Air System Sizing Summary for 13 3E 306 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

Air System Information

| | | | |
|-----------------------|----------------------|-----------------------|---|
| Air System Name | 13 3E 306 REF | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 688.9 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Cooling Coil Sizing Data

| | | | |
|--------------------------------|-----------------|--------------------------------------|----------------------|
| Total coil load | 0.3 Tons | Peak coil load occurs at | July 17:00 |
| Total coil load | 4.0 MBH | OA DB / WB | 84.9 / 69.7 F |
| Sensible coil load | 3.5 MBH | Entering DB / WB | 76.0 / 66.6 F |
| Coil CFM at peak load | 215 CFM | Leaving DB / WB | 61.4 / 60.9 F |
| Sum of peak zone CFM | 215 CFM | Resulting RH | 63 % |
| Sensible heat ratio | 0.869 | Design supply temp. | 58.0 F |
| CFM/Ton | 647.2 | Zone T-stat Check | 1 of 1 OK |
| sqft/Ton | 2077.5 | Max zone temperature deviation | 0.0 F |
| BTU/(hr sqft) | 5.8 | | |
| Water flow @ 10.0 F rise | N/A | | |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|----------------|------------------------|-----------------------|
| Max coil load | 8.0 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 215 CFM | BTU/(hr sqft) | 11.7 |
| Max coil CFM | 215 CFM | Ent. DB / Lvg DB | 60.8 / 95.4 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|---------------------|-----------------|
| Design CFM | 215 CFM | Fan motor BHP | 0.00 BHP |
| Design CFM/sqft | 0.31 CFM/sqft | Fan motor kW | 0.00 kW |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 50 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.07 CFM/sqft | | |

Zone Sizing Summary for 13 3E 306 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

Air System Information

Air System Name **13 3E 306 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **688.9** sqft
 Location **Quebec City Beauport, QC, Canada**

Sizing Calculation 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 306 | 215 | 215 | 0.31 | 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 306 | 3.9 | June 18:00 | 5.5 | 688.9 |

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 306 | | | | | | |
| 3E 306 | 3.9 | June 18:00 | 215 | 5.5 | 688.9 | 0.31 |

Air System Heat Balance Summary for 13 3E 306 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - JULY 17:00 | | | DESIGN HEATING | | |
|-------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 84.9 F / 69.7 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Zone Conditioning | - | 3219 | 300 | - | 5898 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 215 CFM | 0 | - | 215 CFM | 0 | - |
| Ventilation Load | 50 CFM | 231 | 89 | 50 CFM | 2136 | 0 |
| Supply Fan Load | 215 CFM | 0 | - | 215 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 3451 | 389 | - | 8034 | 0 |
| Central Cooling Coil | - | 3457 | 522 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 8040 | - |
| >> Total Conditioning | - | 3457 | 522 | - | 8040 | 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 | | |
|-------------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 84.9 F / 69.7 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Exterior Wall Convection | 137 sqft | 158 | - | 137 sqft | 354 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 25 sqft | 169 | - | 25 sqft | 272 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 42 sqft | 278 | - | 42 sqft | 457 | - |
| Floor Convection | 689 sqft | 928 | - | 689 sqft | 448 | - |
| Interior Wall Convection | 656 sqft | 556 | - | 656 sqft | 285 | - |
| Ceiling Convection | 689 sqft | 912 | - | 689 sqft | 624 | - |
| 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 | 2382 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 450 | 0 | 15% | 723 | 0 |
| >> Total Zone Loads | - | 3452 | 0 | - | 5545 | 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 3E 306 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

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 | 84.8 | 0.01211 | 50 | 400 | 231 | 89 |
| Air-to-Air Energy Recovery | Outlet | 79.3 | 0.01211 | 50 | 400 | 302 | 0 |
| Vent - Return Mixing | Outlet | 76.0 | 0.01183 | 215 | 400 | - | - |
| Central Cooling Coil | Outlet | 61.4 | 0.01133 | 215 | 400 | 3457 | 522 |
| Central Heating Coil | Outlet | 61.4 | 0.01133 | 215 | 400 | 0 | - |
| Supply Fan | Outlet | 61.4 | 0.01133 | 215 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 61.4 | 0.01133 | 215 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01163 | 215 | 400 | 3219 | 300 |
| Return Air | Outlet | 75.0 | 0.01174 | 215 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 306 | 3218 | Cooling | 3219 | 75.0 | 215 | 400 | 0 | 0 |

System Psychrometrics for 13 3E 306 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

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 | 50 | 400 | -2136 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 50 | 400 | -2726 | 0 |
| Vent - Return Mixing | Outlet | 60.8 | 0.00026 | 215 | 400 | - | - |
| Central Cooling Coil | Outlet | 60.8 | 0.00026 | 215 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 95.4 | 0.00026 | 215 | 400 | 8040 | - |
| Supply Fan | Outlet | 95.4 | 0.00026 | 215 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 95.4 | 0.00026 | 215 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 215 | 400 | -5898 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 215 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 306 | -5898 | Heating | -5898 | 70.0 | 215 | 400 | 0 | 0 |

Air System Sizing Summary for 15 3E 307 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

Air System Information

| | | | |
|-----------------------|----------------------|-----------------------|---|
| Air System Name | 15 3E 307 REF | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 954.1 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Cooling Coil Sizing Data

| | | | |
|--------------------------------|-----------------|--------------------------------------|----------------------|
| Total coil load | 0.4 Tons | Peak coil load occurs at | July 17:00 |
| Total coil load | 5.2 MBH | OA DB / WB | 84.9 / 69.7 F |
| Sensible coil load | 4.5 MBH | Entering DB / WB | 75.8 / 66.5 F |
| Coil CFM at peak load | 285 CFM | Leaving DB / WB | 61.3 / 60.9 F |
| Sum of peak zone CFM | 285 CFM | Resulting RH | 63 % |
| Sensible heat ratio | 0.868 | Design supply temp. | 58.0 F |
| CFM/Ton | 653.8 | Zone T-stat Check | 1 of 1 OK |
| sqft/Ton | 2189.8 | Max zone temperature deviation | 0.0 F |
| BTU/(hr sqft) | 5.5 | | |
| Water flow @ 10.0 F rise | N/A | | |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|-----------------|------------------------|-----------------------|
| Max coil load | 10.2 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 285 CFM | BTU/(hr sqft) | 10.7 |
| Max coil CFM | 285 CFM | Ent. DB / Lvg DB | 63.0 / 96.3 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|---------------------|-----------------|
| Design CFM | 285 CFM | Fan motor BHP | 0.00 BHP |
| Design CFM/sqft | 0.30 CFM/sqft | Fan motor kW | 0.00 kW |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 50 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.05 CFM/sqft | | |

Zone Sizing Summary for 15 3E 307 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

Air System Information

Air System Name **15 3E 307 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **954.1** sqft
 Location **Quebec City Beauport, QC, Canada**

Sizing Calculation 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 307 | 285 | 285 | 0.30 | 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 307 | 5.2 | June 18:00 | 7.6 | 954.1 |

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 307 | | | | | | |
| 3E 307 | 5.2 | June 18:00 | 285 | 7.6 | 954.1 | 0.30 |

Air System Heat Balance Summary for 15 3E 307 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - JULY 17:00 | | | DESIGN HEATING | | |
|-------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 84.9 F / 69.7 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Zone Conditioning | - | 4301 | 417 | - | 8101 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 285 CFM | 0 | - | 285 CFM | 0 | - |
| Ventilation Load | 50 CFM | 231 | 94 | 50 CFM | 2136 | 0 |
| Supply Fan Load | 285 CFM | 0 | - | 285 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 4533 | 512 | - | 10237 | 0 |
| Central Cooling Coil | - | 4539 | 689 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 10243 | - |
| >> Total Conditioning | - | 4539 | 689 | - | 10243 | 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 | | |
|-------------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 84.9 F / 69.7 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Exterior Wall Convection | 190 sqft | 221 | - | 190 sqft | 494 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 50 sqft | 337 | - | 50 sqft | 545 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 42 sqft | 275 | - | 42 sqft | 457 | - |
| Floor Convection | 954 sqft | 1344 | - | 954 sqft | 636 | - |
| Interior Wall Convection | 735 sqft | 577 | - | 735 sqft | 331 | - |
| Ceiling Convection | 954 sqft | 1264 | - | 954 sqft | 884 | - |
| 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 | 28 CFM | 3293 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 603 | 0 | 15% | 996 | 0 |
| >> Total Zone Loads | - | 4620 | 0 | - | 7635 | 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 3E 307 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

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 | 84.8 | 0.01211 | 50 | 400 | 231 | 94 |
| Air-to-Air Energy Recovery | Outlet | 79.3 | 0.01211 | 50 | 400 | 302 | 0 |
| Vent - Return Mixing | Outlet | 75.8 | 0.01179 | 285 | 400 | - | - |
| Central Cooling Coil | Outlet | 61.3 | 0.01129 | 285 | 400 | 4539 | 689 |
| Central Heating Coil | Outlet | 61.3 | 0.01129 | 285 | 400 | 0 | - |
| Supply Fan | Outlet | 61.3 | 0.01129 | 285 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 61.3 | 0.01129 | 285 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01160 | 285 | 400 | 4301 | 417 |
| Return Air | Outlet | 75.0 | 0.01172 | 285 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 307 | 4299 | Cooling | 4301 | 75.0 | 285 | 400 | 0 | 0 |

System Psychrometrics for 15 3E 307 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

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 | 50 | 400 | -2136 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 50 | 400 | -2726 | 0 |
| Vent - Return Mixing | Outlet | 63.0 | 0.00026 | 285 | 400 | - | - |
| Central Cooling Coil | Outlet | 63.0 | 0.00026 | 285 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 96.3 | 0.00026 | 285 | 400 | 10243 | - |
| Supply Fan | Outlet | 96.3 | 0.00026 | 285 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 96.3 | 0.00026 | 285 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 285 | 400 | -8101 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 285 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 307 | -8101 | Heating | -8101 | 70.0 | 285 | 400 | 0 | 0 |

Air System Sizing Summary for 17 3E 308 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

Air System Information

| | | | |
|-----------------------|----------------------|-----------------------|---|
| Air System Name | 17 3E 308 REF | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 930.2 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Cooling Coil Sizing Data

| | | | |
|--------------------------------|-----------------|--------------------------------------|----------------------|
| Total coil load | 0.4 Tons | Peak coil load occurs at | July 17:00 |
| Total coil load | 5.0 MBH | OA DB / WB | 84.9 / 69.7 F |
| Sensible coil load | 5.0 MBH | Entering DB / WB | 75.5 / 66.8 F |
| Coil CFM at peak load | 472 CFM | Leaving DB / WB | 65.8 / 63.6 F |
| Sum of peak zone CFM | 472 CFM | Resulting RH | 65 % |
| Sensible heat ratio | 1.000 | Design supply temp. | 58.0 F |
| CFM/Ton | 1122.3 | Zone T-stat Check | 1 of 1 OK |
| sqft/Ton | 2213.2 | Max zone temperature deviation | 0.0 F |
| BTU/(hr sqft) | 5.4 | | |
| Water flow @ 10.0 F rise | N/A | | |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|-----------------|------------------------|-----------------------|
| Max coil load | 15.3 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 472 CFM | BTU/(hr sqft) | 16.5 |
| Max coil CFM | 472 CFM | Ent. DB / Lvg DB | 65.8 / 95.9 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|---------------------|-----------------|
| Design CFM | 472 CFM | Fan motor BHP | 0.00 BHP |
| Design CFM/sqft | 0.51 CFM/sqft | Fan motor kW | 0.00 kW |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 50 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.05 CFM/sqft | | |

Zone Sizing Summary for 17 3E 308 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

Air System Information

Air System Name **17 3E 308 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **930.2** sqft
 Location **Quebec City Beauport, QC, Canada**

Sizing Calculation 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 308 | 472 | 472 | 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 308 | 5.1 | June 18:00 | 12.7 | 930.2 |

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 308 | | | | | | |
| 3E 308 | 5.1 | June 18:00 | 472 | 12.7 | 930.2 | 0.51 |

Air System Heat Balance Summary for 17 3E 308 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - JULY 17:00 | | | DESIGN HEATING | | |
|-------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 84.9 F / 69.7 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Zone Conditioning | - | 4806 | -1 | - | 13192 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 472 CFM | 0 | - | 472 CFM | 0 | - |
| Ventilation Load | 50 CFM | 231 | 2 | 50 CFM | 2136 | 0 |
| Supply Fan Load | 472 CFM | 0 | - | 472 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 5038 | 1 | - | 15328 | 0 |
| Central Cooling Coil | - | 5043 | 0 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 15334 | - |
| >> Total Conditioning | - | 5043 | 0 | - | 15334 | 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 | | |
|-------------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 84.9 F / 69.7 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Exterior Wall Convection | 341 sqft | 439 | - | 341 sqft | 1048 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 105 sqft | 598 | - | 105 sqft | 1172 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 42 sqft | 98 | - | 42 sqft | 478 | - |
| Floor Convection | 930 sqft | 1337 | - | 930 sqft | 1039 | - |
| Interior Wall Convection | 515 sqft | 418 | - | 515 sqft | 355 | - |
| Ceiling Convection | 930 sqft | 1345 | - | 930 sqft | 1268 | - |
| 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 | 49 CFM | 5701 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 635 | 0 | 15% | 1659 | 0 |
| >> Total Zone Loads | - | 4872 | 0 | - | 12720 | 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 3E 308 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

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 | 84.8 | 0.01211 | 50 | 400 | 231 | 2 |
| Air-to-Air Energy Recovery | Outlet | 79.3 | 0.01211 | 50 | 400 | 302 | 0 |
| Vent - Return Mixing | Outlet | 75.5 | 0.01211 | 472 | 400 | - | - |
| Central Cooling Coil | Outlet | 65.8 | 0.01211 | 472 | 400 | 5043 | 0 |
| Central Heating Coil | Outlet | 65.8 | 0.01211 | 472 | 400 | 0 | - |
| Supply Fan | Outlet | 65.8 | 0.01211 | 472 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 65.8 | 0.01211 | 472 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01211 | 472 | 400 | 4806 | -1 |
| Return Air | Outlet | 75.0 | 0.01211 | 472 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 308 | 4806 | Cooling | 4806 | 75.0 | 472 | 400 | 0 | 0 |

System Psychrometrics for 17 3E 308 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:46 AM

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 | 50 | 400 | -2136 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 50 | 400 | -2726 | 0 |
| Vent - Return Mixing | Outlet | 65.8 | 0.00026 | 472 | 400 | - | - |
| Central Cooling Coil | Outlet | 65.8 | 0.00026 | 472 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 95.9 | 0.00026 | 472 | 400 | 15334 | - |
| Supply Fan | Outlet | 95.9 | 0.00026 | 472 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 95.9 | 0.00026 | 472 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 472 | 400 | -13192 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 472 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 308 | -13192 | Heating | -13192 | 70.0 | 472 | 400 | 0 | 0 |

Air System Sizing Summary for 19 4E 401 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | | | |
|-----------------------|----------------------|-----------------------|---|
| Air System Name | 19 4E 401 REF | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 954.9 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Cooling Coil Sizing Data

| | | | |
|--------------------------------|-----------------|--------------------------------------|----------------------|
| Total coil load | 0.6 Tons | Peak coil load occurs at | August 10:00 |
| Total coil load | 7.4 MBH | OA DB / WB | 76.7 / 67.2 F |
| Sensible coil load | 6.6 MBH | Entering DB / WB | 75.1 / 65.3 F |
| Coil CFM at peak load | 392 CFM | Leaving DB / WB | 59.8 / 59.3 F |
| Sum of peak zone CFM | 392 CFM | Resulting RH | 59 % |
| Sensible heat ratio | 0.894 | Design supply temp. | 58.0 F |
| CFM/Ton | 635.0 | Zone T-stat Check | 1 of 1 OK |
| sqft/Ton | 1547.1 | Max zone temperature deviation | 0.0 F |
| BTU/(hr sqft) | 7.8 | | |
| Water flow @ 10.0 F rise | N/A | | |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|-----------------|------------------------|-----------------------|
| Max coil load | 12.8 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 392 CFM | BTU/(hr sqft) | 13.4 |
| Max coil CFM | 392 CFM | Ent. DB / Lvg DB | 64.9 / 95.2 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|---------------------|-----------------|
| Design CFM | 392 CFM | Fan motor BHP | 0.00 BHP |
| Design CFM/sqft | 0.41 CFM/sqft | Fan motor kW | 0.00 kW |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 50 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.05 CFM/sqft | | |

Zone Sizing Summary for 19 4E 401 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

Air System Name **19 4E 401 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **954.9** sqft
 Location **Quebec City Beauport, QC, Canada**

Sizing Calculation 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 | 392 | 392 | 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) |
|-----------|-----------------------------|------------------------------------|-------------------------|------------------------|
| 4E 401 | 7.1 | August 11:00 | 10.6 | 954.9 |

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 401 | | | | | | |
| 4E 401 | 7.1 | August 11:00 | 392 | 10.6 | 954.9 | 0.41 |

Air System Heat Balance Summary for 19 4E 401 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - AUGUST 10:00 | | | DESIGN HEATING | | |
|-------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | OA DB / WB 76.7 F / 67.2 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 | - | 6571 | 314 | - | 10683 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 392 CFM | 0 | - | 392 CFM | 0 | - |
| Ventilation Load | 50 CFM | 44 | 273 | 50 CFM | 2136 | 0 |
| Supply Fan Load | 392 CFM | 0 | - | 392 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 6615 | 587 | - | 12819 | 0 |
| Central Cooling Coil | - | 6618 | 788 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 12825 | - |
| >> Total Conditioning | - | 6618 | 788 | - | 12825 | 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 76.7 F / 67.2 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 | 188 sqft | 296 | - | 188 sqft | 541 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 50 sqft | 474 | - | 50 sqft | 529 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 42 sqft | 395 | - | 42 sqft | 445 | - |
| Floor Convection | 955 sqft | 2121 | - | 955 sqft | 913 | - |
| Interior Wall Convection | 728 sqft | 888 | - | 728 sqft | 432 | - |
| Ceiling Convection | 955 sqft | 1849 | - | 955 sqft | 3054 | - |
| 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 | 28 CFM | 3277 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 903 | 0 | 15% | 1379 | 0 |
| >> Total Zone Loads | - | 6927 | 0 | - | 10569 | 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 4E 401 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 76.9 | 0.01209 | 50 | 400 | 44 | 273 |
| Air-to-Air Energy Recovery | Outlet | 75.8 | 0.01209 | 50 | 400 | 58 | 0 |
| Vent - Return Mixing | Outlet | 75.1 | 0.01109 | 392 | 400 | - | - |
| Central Cooling Coil | Outlet | 59.8 | 0.01068 | 392 | 400 | 6618 | 788 |
| Central Heating Coil | Outlet | 59.8 | 0.01068 | 392 | 400 | 0 | - |
| Supply Fan | Outlet | 59.8 | 0.01068 | 392 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 59.8 | 0.01068 | 392 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01085 | 392 | 400 | 6571 | 314 |
| Return Air | Outlet | 75.0 | 0.01094 | 392 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | 6568 | Cooling | 6571 | 75.0 | 392 | 400 | 0 | 0 |

System Psychrometrics for 19 4E 401 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 50 | 400 | -2136 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 50 | 400 | -2726 | 0 |
| Vent - Return Mixing | Outlet | 64.9 | 0.00026 | 392 | 400 | - | - |
| Central Cooling Coil | Outlet | 64.9 | 0.00026 | 392 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 95.2 | 0.00026 | 392 | 400 | 12825 | - |
| Supply Fan | Outlet | 95.2 | 0.00026 | 392 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 95.2 | 0.00026 | 392 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 392 | 400 | -10683 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 392 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | -10683 | Heating | -10683 | 70.0 | 392 | 400 | 0 | 0 |

Air System Sizing Summary for 21 4E 402 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | | | |
|-----------------------|----------------------|-----------------------|---|
| Air System Name | 21 4E 402 REF | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 695.4 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Cooling Coil Sizing Data

| | | | |
|--------------------------------|-----------------|--------------------------------------|----------------------|
| Total coil load | 0.4 Tons | Peak coil load occurs at | August 10:00 |
| Total coil load | 5.4 MBH | OA DB / WB | 76.7 / 67.2 F |
| Sensible coil load | 4.8 MBH | Entering DB / WB | 75.1 / 65.5 F |
| Coil CFM at peak load | 287 CFM | Leaving DB / WB | 60.0 / 59.5 F |
| Sum of peak zone CFM | 287 CFM | Resulting RH | 59 % |
| Sensible heat ratio | 0.888 | Design supply temp. | 58.0 F |
| CFM/Ton | 638.5 | Zone T-stat Check | 1 of 1 OK |
| sqft/Ton | 1548.1 | Max zone temperature deviation | 0.0 F |
| BTU/(hr sqft) | 7.8 | | |
| Water flow @ 10.0 F rise | N/A | | |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|-----------------|------------------------|-----------------------|
| Max coil load | 10.0 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 287 CFM | BTU/(hr sqft) | 14.3 |
| Max coil CFM | 287 CFM | Ent. DB / Lvg DB | 63.1 / 95.2 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|---------------------|-----------------|
| Design CFM | 287 CFM | Fan motor BHP | 0.00 BHP |
| Design CFM/sqft | 0.41 CFM/sqft | Fan motor kW | 0.00 kW |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 50 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.07 CFM/sqft | | |

Zone Sizing Summary for 21 4E 402 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

Air System Name **21 4E 402 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **695.4** sqft
 Location **Quebec City Beauport, QC, Canada**

Sizing Calculation 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 | 287 | 287 | 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) |
|-----------|-----------------------------|------------------------------------|-------------------------|------------------------|
| 4E 402 | 5.1 | August 11:00 | 7.7 | 695.4 |

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 402 | | | | | | |
| 4E 402 | 5.1 | August 11:00 | 287 | 7.7 | 695.4 | 0.41 |

Air System Heat Balance Summary for 21 4E 402 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - AUGUST 10:00 | | | DESIGN HEATING | | |
|-------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | OA DB / WB 76.7 F / 67.2 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 | - | 4737 | 210 | - | 7814 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 287 CFM | 0 | - | 287 CFM | 0 | - |
| Ventilation Load | 50 CFM | 44 | 258 | 50 CFM | 2136 | 0 |
| Supply Fan Load | 287 CFM | 0 | - | 287 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 4781 | 468 | - | 9950 | 0 |
| Central Cooling Coil | - | 4784 | 606 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 9956 | - |
| >> Total Conditioning | - | 4784 | 606 | - | 9956 | 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 76.7 F / 67.2 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 | 137 sqft | 202 | - | 137 sqft | 392 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 25 sqft | 235 | - | 25 sqft | 264 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 42 sqft | 393 | - | 42 sqft | 444 | - |
| Floor Convection | 695 sqft | 1565 | - | 695 sqft | 644 | - |
| Interior Wall Convection | 652 sqft | 726 | - | 652 sqft | 381 | - |
| Ceiling Convection | 696 sqft | 1243 | - | 696 sqft | 2211 | - |
| 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 | 2388 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 655 | 0 | 15% | 1009 | 0 |
| >> Total Zone Loads | - | 5019 | 0 | - | 7734 | 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 4E 402 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 76.9 | 0.01209 | 50 | 400 | 44 | 258 |
| Air-to-Air Energy Recovery | Outlet | 75.8 | 0.01209 | 50 | 400 | 58 | 0 |
| Vent - Return Mixing | Outlet | 75.1 | 0.01119 | 287 | 400 | - | - |
| Central Cooling Coil | Outlet | 60.0 | 0.01076 | 287 | 400 | 4784 | 606 |
| Central Heating Coil | Outlet | 60.0 | 0.01076 | 287 | 400 | 0 | - |
| Supply Fan | Outlet | 60.0 | 0.01076 | 287 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 60.0 | 0.01076 | 287 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01092 | 287 | 400 | 4737 | 210 |
| Return Air | Outlet | 75.0 | 0.01100 | 287 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | 4735 | Cooling | 4737 | 75.0 | 287 | 400 | 0 | 0 |

System Psychrometrics for 21 4E 402 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 50 | 400 | -2136 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 50 | 400 | -2726 | 0 |
| Vent - Return Mixing | Outlet | 63.1 | 0.00026 | 287 | 400 | - | - |
| Central Cooling Coil | Outlet | 63.1 | 0.00026 | 287 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 95.2 | 0.00026 | 287 | 400 | 9956 | - |
| Supply Fan | Outlet | 95.2 | 0.00026 | 287 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 95.2 | 0.00026 | 287 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 287 | 400 | -7814 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 287 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | -7814 | Heating | -7814 | 70.0 | 287 | 400 | 0 | 0 |

Air System Sizing Summary for 23 4E 403 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | | | |
|-----------------------|----------------------|-----------------------|---|
| Air System Name | 23 4E 403 REF | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 927.0 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Cooling Coil Sizing Data

| | | | |
|--------------------------------|-----------------|--------------------------------------|----------------------|
| Total coil load | 0.6 Tons | Peak coil load occurs at | August 10:00 |
| Total coil load | 7.3 MBH | OA DB / WB | 76.7 / 67.2 F |
| Sensible coil load | 6.5 MBH | Entering DB / WB | 75.1 / 65.2 F |
| Coil CFM at peak load | 383 CFM | Leaving DB / WB | 59.7 / 59.2 F |
| Sum of peak zone CFM | 383 CFM | Resulting RH | 58 % |
| Sensible heat ratio | 0.895 | Design supply temp. | 58.0 F |
| CFM/Ton | 630.9 | Zone T-stat Check | 1 of 1 OK |
| sqft/Ton | 1526.2 | Max zone temperature deviation | 0.0 F |
| BTU/(hr sqft) | 7.9 | | |
| Water flow @ 10.0 F rise | N/A | | |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|-----------------|------------------------|-----------------------|
| Max coil load | 12.6 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 383 CFM | BTU/(hr sqft) | 13.6 |
| Max coil CFM | 383 CFM | Ent. DB / Lvg DB | 64.8 / 95.2 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|---------------------|-----------------|
| Design CFM | 383 CFM | Fan motor BHP | 0.00 BHP |
| Design CFM/sqft | 0.41 CFM/sqft | Fan motor kW | 0.00 kW |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 50 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.05 CFM/sqft | | |

Zone Sizing Summary for 23 4E 403 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

Air System Name **23 4E 403 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **927.0** sqft
 Location **Quebec City Beauport, QC, Canada**

Sizing Calculation 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 403 | 383 | 383 | 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) |
|-----------|-----------------------------|------------------------------------|-------------------------|------------------------|
| 4E 403 | 7.0 | August 11:00 | 10.3 | 927.0 |

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 403 | | | | | | |
| 4E 403 | 7.0 | August 11:00 | 383 | 10.3 | 927.0 | 0.41 |

Air System Heat Balance Summary for 23 4E 403 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - AUGUST 10:00 | | | DESIGN HEATING | | |
|------------------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | OA DB / WB 76.7 F / 67.2 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 | - | 6473 | 293 | - | 10443 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 383 CFM | 0 | - | 383 CFM | 0 | - |
| Ventilation Load | 50 CFM | 44 | 286 | 50 CFM | 2136 | 0 |
| Supply Fan Load | 383 CFM | 0 | - | 383 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 6517 | 578 | - | 12578 | 0 |
| Central Cooling Coil | - | 6520 | 769 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 12584 | - |
| >> Total Conditioning | - | 6520 | 769 | - | 12584 | 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 76.7 F / 67.2 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 | 180 sqft | 287 | - | 180 sqft | 519 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 50 sqft | 473 | - | 50 sqft | 528 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 42 sqft | 398 | - | 42 sqft | 445 | - |
| Floor Convection | 927 sqft | 2104 | - | 927 sqft | 896 | - |
| Interior Wall Convection | 720 sqft | 879 | - | 720 sqft | 436 | - |
| Ceiling Convection | 927 sqft | 1829 | - | 927 sqft | 2982 | - |
| 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 | 27 CFM | 3181 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 895 | 0 | 15% | 1348 | 0 |
| >> Total Zone Loads | - | 6865 | 0 | - | 10335 | 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 4E 403 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 76.9 | 0.01209 | 50 | 400 | 44 | 286 |
| Air-to-Air Energy Recovery | Outlet | 75.8 | 0.01209 | 50 | 400 | 58 | 0 |
| Vent - Return Mixing | Outlet | 75.1 | 0.01105 | 383 | 400 | - | - |
| Central Cooling Coil | Outlet | 59.7 | 0.01064 | 383 | 400 | 6520 | 769 |
| Central Heating Coil | Outlet | 59.7 | 0.01064 | 383 | 400 | 0 | - |
| Supply Fan | Outlet | 59.7 | 0.01064 | 383 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 59.7 | 0.01064 | 383 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01080 | 383 | 400 | 6473 | 293 |
| Return Air | Outlet | 75.0 | 0.01089 | 383 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 403 | 6471 | Cooling | 6473 | 75.0 | 383 | 400 | 0 | 0 |

System Psychrometrics for 23 4E 403 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 50 | 400 | -2136 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 50 | 400 | -2726 | 0 |
| Vent - Return Mixing | Outlet | 64.8 | 0.00026 | 383 | 400 | - | - |
| Central Cooling Coil | Outlet | 64.8 | 0.00026 | 383 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 95.2 | 0.00026 | 383 | 400 | 12584 | - |
| Supply Fan | Outlet | 95.2 | 0.00026 | 383 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 95.2 | 0.00026 | 383 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 383 | 400 | -10443 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 383 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 403 | -10443 | Heating | -10443 | 70.0 | 383 | 400 | 0 | 0 |

Air System Sizing Summary for 25 4E 404 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | | | |
|-----------------------|----------------------|-----------------------|---|
| Air System Name | 25 4E 404 REF | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 969.7 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Cooling Coil Sizing Data

| | | | |
|--------------------------------|-----------------|--------------------------------------|----------------------|
| Total coil load | 0.8 Tons | Peak coil load occurs at | August 15:00 |
| Total coil load | 9.7 MBH | OA DB / WB | 85.9 / 70.0 F |
| Sensible coil load | 9.4 MBH | Entering DB / WB | 75.4 / 65.8 F |
| Coil CFM at peak load | 627 CFM | Leaving DB / WB | 61.8 / 61.1 F |
| Sum of peak zone CFM | 627 CFM | Resulting RH | 61 % |
| Sensible heat ratio | 0.970 | Design supply temp. | 58.0 F |
| CFM/Ton | 775.4 | Zone T-stat Check | 1 of 1 OK |
| sqft/Ton | 1199.5 | Max zone temperature deviation | 0.0 F |
| BTU/(hr sqft) | 10.0 | | |
| Water flow @ 10.0 F rise | N/A | | |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|-----------------|------------------------|-----------------------|
| Max coil load | 19.1 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 627 CFM | BTU/(hr sqft) | 19.7 |
| Max coil CFM | 627 CFM | Ent. DB / Lvg DB | 66.8 / 95.1 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|---------------------|-----------------|
| Design CFM | 627 CFM | Fan motor BHP | 0.00 BHP |
| Design CFM/sqft | 0.65 CFM/sqft | Fan motor kW | 0.00 kW |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 50 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.05 CFM/sqft | | |

Zone Sizing Summary for 25 4E 404 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | |
|--|--|
| Air System Name 25 4E 404 REF | Number of zones 1 |
| Equipment Class SPLT AHU | Floor Area 969.7 sqft |
| Air System Type SZCAV | Location Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | |
|--|---|
| Calculation Months Jan to Dec | Zone CFM Sizing Sum of space airflow rates |
| 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) |
|-----------|-----------------------------|------------------------------|---------------|----------------------------|--------------------------------|-----------------------------------|----------------------------------|------------------------------|
| 4E 404 | 627 | 627 | 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 404 | 9.7 | September 13:00 | 16.9 | 969.7 |

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 404 | | | | | | |
| 4E 404 | 9.7 | September 13:00 | 627 | 16.9 | 969.7 | 0.65 |

Air System Heat Balance Summary for 25 4E 404 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - AUGUST 15:00 | | | DESIGN HEATING | | |
|-------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 85.9 F / 70.0 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Zone Conditioning | - | 9148 | 53 | - | 16991 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 627 CFM | 0 | - | 627 CFM | 0 | - |
| Ventilation Load | 50 CFM | 257 | 181 | 50 CFM | 2136 | 0 |
| Supply Fan Load | 627 CFM | 0 | - | 627 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 9405 | 234 | - | 19127 | 0 |
| Central Cooling Coil | - | 9413 | 288 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 19133 | - |
| >> Total Conditioning | - | 9413 | 288 | - | 19133 | 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 | | |
|-------------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 85.9 F / 70.0 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Exterior Wall Convection | 371 sqft | 988 | - | 371 sqft | 1235 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 120 sqft | 960 | - | 120 sqft | 1419 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 42 sqft | 131 | - | 42 sqft | 492 | - |
| Floor Convection | 970 sqft | 2009 | - | 970 sqft | 1238 | - |
| Interior Wall Convection | 533 sqft | 811 | - | 533 sqft | 454 | - |
| Ceiling Convection | 970 sqft | 3389 | - | 970 sqft | 3626 | - |
| 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 | 53 CFM | 6237 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 1243 | 0 | 15% | 2205 | 0 |
| >> Total Zone Loads | - | 9531 | 0 | - | 16904 | 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 4E 404 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 85.8 | 0.01211 | 50 | 400 | 257 | 181 |
| Air-to-Air Energy Recovery | Outlet | 79.8 | 0.01211 | 50 | 400 | 335 | 0 |
| Vent - Return Mixing | Outlet | 75.4 | 0.01141 | 627 | 400 | - | - |
| Central Cooling Coil | Outlet | 61.8 | 0.01132 | 627 | 400 | 9413 | 288 |
| Central Heating Coil | Outlet | 61.8 | 0.01132 | 627 | 400 | 0 | - |
| Supply Fan | Outlet | 61.8 | 0.01132 | 627 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 61.8 | 0.01132 | 627 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01133 | 627 | 400 | 9148 | 53 |
| Return Air | Outlet | 75.0 | 0.01135 | 627 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 404 | 9147 | Cooling | 9148 | 75.0 | 627 | 400 | 0 | 0 |

System Psychrometrics for 25 4E 404 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 50 | 400 | -2136 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 50 | 400 | -2726 | 0 |
| Vent - Return Mixing | Outlet | 66.8 | 0.00026 | 627 | 400 | - | - |
| Central Cooling Coil | Outlet | 66.8 | 0.00026 | 627 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 95.1 | 0.00026 | 627 | 400 | 19133 | - |
| Supply Fan | Outlet | 95.1 | 0.00026 | 627 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 95.1 | 0.00026 | 627 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 627 | 400 | -16991 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 627 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 404 | -16991 | Heating | -16991 | 70.0 | 627 | 400 | 0 | 0 |

Air System Sizing Summary for 27 4E 405 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | | | |
|-----------------------|----------------------|-----------------------|---|
| Air System Name | 27 4E 405 REF | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 1080.4 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Cooling Coil Sizing Data

| | | | |
|--------------------------------|-----------------|--------------------------------------|----------------------|
| Total coil load | 1.0 Tons | Peak coil load occurs at | July 17:00 |
| Total coil load | 12.1 MBH | OA DB / WB | 84.9 / 69.7 F |
| Sensible coil load | 11.5 MBH | Entering DB / WB | 75.3 / 64.9 F |
| Coil CFM at peak load | 665 CFM | Leaving DB / WB | 59.6 / 59.1 F |
| Sum of peak zone CFM | 665 CFM | Resulting RH | 57 % |
| Sensible heat ratio | 0.951 | Design supply temp. | 58.0 F |
| CFM/Ton | 659.7 | Zone T-stat Check | 1 of 1 OK |
| sqft/Ton | 1071.0 | Max zone temperature deviation | 0.0 F |
| BTU/(hr sqft) | 11.2 | | |
| Water flow @ 10.0 F rise | N/A | | |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|-----------------|------------------------|-----------------------|
| Max coil load | 20.2 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 665 CFM | BTU/(hr sqft) | 18.7 |
| Max coil CFM | 665 CFM | Ent. DB / Lvg DB | 67.0 / 95.1 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|---------------------|-----------------|
| Design CFM | 665 CFM | Fan motor BHP | 0.00 BHP |
| Design CFM/sqft | 0.62 CFM/sqft | Fan motor kW | 0.00 kW |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 50 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.05 CFM/sqft | | |

Zone Sizing Summary for 27 4E 405 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | |
|--|--|
| Air System Name 27 4E 405 REF | Number of zones 1 |
| Equipment Class SPLT AHU | Floor Area 1080.4 sqft |
| Air System Type SZCAV | Location Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | |
|--|---|
| Calculation Months Jan to Dec | Zone CFM Sizing Sum of space airflow rates |
| 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) |
|-----------|-----------------------------|------------------------------|---------------|----------------------------|--------------------------------|-----------------------------------|----------------------------------|------------------------------|
| 4E 405 | 665 | 665 | 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) |
|-----------|-----------------------------|------------------------------------|-------------------------|------------------------|
| 4E 405 | 11.9 | July 17:00 | 17.9 | 1080.4 |

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 405 | | | | | | |
| 4E 405 | 11.9 | July 17:00 | 665 | 17.9 | 1080.4 | 0.62 |

Air System Heat Balance Summary for 27 4E 405 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - JULY 17:00 | | | DESIGN HEATING | | |
|------------------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | OA DB / WB 84.9 F / 69.7 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 | - | 11267 | 121 | - | 18039 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 665 CFM | 0 | - | 665 CFM | 0 | - |
| Ventilation Load | 50 CFM | 231 | 341 | 50 CFM | 2136 | 0 |
| Supply Fan Load | 665 CFM | 0 | - | 665 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 11498 | 462 | - | 20175 | 0 |
| Central Cooling Coil | - | 11507 | 598 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 20181 | - |
| >> Total Conditioning | - | 11507 | 598 | - | 20181 | 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 84.9 F / 69.7 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 | 404 sqft | 1043 | - | 404 sqft | 1322 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 120 sqft | 1107 | - | 120 sqft | 1409 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 42 sqft | 362 | - | 42 sqft | 498 | - |
| Floor Convection | 1080 sqft | 2385 | - | 1080 sqft | 1337 | - |
| Interior Wall Convection | 566 sqft | 1055 | - | 566 sqft | 454 | - |
| Ceiling Convection | 1080 sqft | 4380 | - | 1080 sqft | 3968 | - |
| 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 | 6618 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 1550 | 0 | 15% | 2341 | 0 |
| >> Total Zone Loads | - | 11881 | 0 | - | 17947 | 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 405 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 84.8 | 0.01211 | 50 | 400 | 231 | 341 |
| Air-to-Air Energy Recovery | Outlet | 79.3 | 0.01211 | 50 | 400 | 301 | 0 |
| Vent - Return Mixing | Outlet | 75.3 | 0.01078 | 665 | 400 | - | - |
| Central Cooling Coil | Outlet | 59.6 | 0.01060 | 665 | 400 | 11507 | 598 |
| Central Heating Coil | Outlet | 59.6 | 0.01060 | 665 | 400 | 0 | - |
| Supply Fan | Outlet | 59.6 | 0.01060 | 665 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 59.6 | 0.01060 | 665 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01064 | 665 | 400 | 11267 | 121 |
| Return Air | Outlet | 75.0 | 0.01068 | 665 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | 11266 | Cooling | 11267 | 75.0 | 665 | 400 | 0 | 0 |

System Psychrometrics for 27 4E 405 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 50 | 400 | -2136 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 50 | 400 | -2726 | 0 |
| Vent - Return Mixing | Outlet | 67.0 | 0.00026 | 665 | 400 | - | - |
| Central Cooling Coil | Outlet | 67.0 | 0.00026 | 665 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 95.1 | 0.00026 | 665 | 400 | 20181 | - |
| Supply Fan | Outlet | 95.1 | 0.00026 | 665 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 95.1 | 0.00026 | 665 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 665 | 400 | -18039 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 665 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | -18039 | Heating | -18039 | 70.0 | 665 | 400 | 0 | 0 |

Air System Sizing Summary for 29 4E 406 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | | | |
|-----------------------|----------------------|-----------------------|---|
| Air System Name | 29 4E 406 REF | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 691.2 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Cooling Coil Sizing Data

| | | | |
|--------------------------------|-----------------|--------------------------------------|----------------------|
| Total coil load | 0.5 Tons | Peak coil load occurs at | July 17:00 |
| Total coil load | 5.5 MBH | OA DB / WB | 84.9 / 69.7 F |
| Sensible coil load | 4.8 MBH | Entering DB / WB | 75.8 / 66.0 F |
| Coil CFM at peak load | 286 CFM | Leaving DB / WB | 60.4 / 60.0 F |
| Sum of peak zone CFM | 286 CFM | Resulting RH | 60 % |
| Sensible heat ratio | 0.877 | Design supply temp. | 58.0 F |
| CFM/Ton | 623.0 | Zone T-stat Check | 1 of 1 OK |
| sqft/Ton | 1503.7 | Max zone temperature deviation | 0.0 F |
| BTU/(hr sqft) | 8.0 | | |
| Water flow @ 10.0 F rise | N/A | | |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|----------------|------------------------|-----------------------|
| Max coil load | 9.9 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 286 CFM | BTU/(hr sqft) | 14.4 |
| Max coil CFM | 286 CFM | Ent. DB / Lvg DB | 63.1 / 95.2 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|---------------------|-----------------|
| Design CFM | 286 CFM | Fan motor BHP | 0.00 BHP |
| Design CFM/sqft | 0.41 CFM/sqft | Fan motor kW | 0.00 kW |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 50 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.07 CFM/sqft | | |

Zone Sizing Summary for 29 4E 406 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | |
|--|--|
| Air System Name 29 4E 406 REF | Number of zones 1 |
| Equipment Class SPLT AHU | Floor Area 691.2 sqft |
| Air System Type SZCAV | Location Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | |
|--|---|
| Calculation Months Jan to Dec | Zone CFM Sizing Sum of space airflow rates |
| 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) |
|-----------|-----------------------------|------------------------------|---------------|----------------------------|--------------------------------|-----------------------------------|----------------------------------|------------------------------|
| 4E 406 | 286 | 286 | 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) |
|-----------|-----------------------------|------------------------------------|-------------------------|------------------------|
| 4E 406 | 5.2 | June 18:00 | 7.7 | 691.2 |

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 406 | | | | | | |
| 4E 406 | 5.2 | June 18:00 | 286 | 7.7 | 691.2 | 0.41 |

Air System Heat Balance Summary for 29 4E 406 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - JULY 17:00 | | | DESIGN HEATING | | |
|-------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | OA DB / WB 84.9 F / 69.7 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 | - | 4602 | 299 | - | 7802 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 286 CFM | 0 | - | 286 CFM | 0 | - |
| Ventilation Load | 50 CFM | 231 | 192 | 50 CFM | 2136 | 0 |
| Supply Fan Load | 286 CFM | 0 | - | 286 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 4833 | 491 | - | 9937 | 0 |
| Central Cooling Coil | - | 4841 | 676 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 9944 | - |
| >> Total Conditioning | - | 4841 | 676 | - | 9944 | 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 84.9 F / 69.7 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 | 136 sqft | 178 | - | 136 sqft | 389 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 25 sqft | 183 | - | 25 sqft | 271 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 42 sqft | 304 | - | 42 sqft | 455 | - |
| Floor Convection | 691 sqft | 1092 | - | 691 sqft | 647 | - |
| Interior Wall Convection | 651 sqft | 648 | - | 651 sqft | 378 | - |
| Ceiling Convection | 691 sqft | 1849 | - | 691 sqft | 2206 | - |
| 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 | 2371 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 638 | 0 | 15% | 1007 | 0 |
| >> Total Zone Loads | - | 4892 | 0 | - | 7723 | 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 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 84.8 | 0.01211 | 50 | 400 | 231 | 192 |
| Air-to-Air Energy Recovery | Outlet | 79.3 | 0.01211 | 50 | 400 | 301 | 0 |
| Vent - Return Mixing | Outlet | 75.8 | 0.01145 | 286 | 400 | - | - |
| Central Cooling Coil | Outlet | 60.4 | 0.01096 | 286 | 400 | 4841 | 676 |
| Central Heating Coil | Outlet | 60.4 | 0.01096 | 286 | 400 | 0 | - |
| Supply Fan | Outlet | 60.4 | 0.01096 | 286 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 60.4 | 0.01096 | 286 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01118 | 286 | 400 | 4602 | 299 |
| Return Air | Outlet | 75.0 | 0.01131 | 286 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | 4600 | Cooling | 4602 | 75.0 | 286 | 400 | 0 | 0 |

System Psychrometrics for 29 4E 406 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 50 | 400 | -2136 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 50 | 400 | -2726 | 0 |
| Vent - Return Mixing | Outlet | 63.1 | 0.00026 | 286 | 400 | - | - |
| Central Cooling Coil | Outlet | 63.1 | 0.00026 | 286 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 95.2 | 0.00026 | 286 | 400 | 9944 | - |
| Supply Fan | Outlet | 95.2 | 0.00026 | 286 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 95.2 | 0.00026 | 286 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 286 | 400 | -7802 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 286 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | -7802 | Heating | -7802 | 70.0 | 286 | 400 | 0 | 0 |

Air System Sizing Summary for 31 4E 407 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | | | |
|-----------------------|----------------------|-----------------------|---|
| Air System Name | 31 4E 407 REF | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 951.8 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Cooling Coil Sizing Data

| | | | |
|--------------------------------|-----------------|--------------------------------------|----------------------|
| Total coil load | 0.6 Tons | Peak coil load occurs at | July 17:00 |
| Total coil load | 7.2 MBH | OA DB / WB | 84.9 / 69.7 F |
| Sensible coil load | 6.4 MBH | Entering DB / WB | 75.5 / 66.0 F |
| Coil CFM at peak load | 393 CFM | Leaving DB / WB | 60.7 / 60.3 F |
| Sum of peak zone CFM | 393 CFM | Resulting RH | 61 % |
| Sensible heat ratio | 0.888 | Design supply temp. | 58.0 F |
| CFM/Ton | 651.8 | Zone T-stat Check | 1 of 1 OK |
| sqft/Ton | 1578.7 | Max zone temperature deviation | 0.0 F |
| BTU/(hr sqft) | 7.6 | | |
| Water flow @ 10.0 F rise | N/A | | |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|-----------------|------------------------|-----------------------|
| Max coil load | 12.9 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 393 CFM | BTU/(hr sqft) | 13.5 |
| Max coil CFM | 393 CFM | Ent. DB / Lvg DB | 65.0 / 95.2 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|---------------------|-----------------|
| Design CFM | 393 CFM | Fan motor BHP | 0.00 BHP |
| Design CFM/sqft | 0.41 CFM/sqft | Fan motor kW | 0.00 kW |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 50 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.05 CFM/sqft | | |

Zone Sizing Summary for 31 4E 407 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | |
|--|--|
| Air System Name 31 4E 407 REF | Number of zones 1 |
| Equipment Class SPLT AHU | Floor Area 951.8 sqft |
| Air System Type SZCAV | Location Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | |
|--|---|
| Calculation Months Jan to Dec | Zone CFM Sizing Sum of space airflow rates |
| 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) |
|-----------|-----------------------------|------------------------------|---------------|----------------------------|--------------------------------|-----------------------------------|----------------------------------|------------------------------|
| 4E 407 | 393 | 393 | 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) |
|-----------|-----------------------------|------------------------------------|-------------------------|------------------------|
| 4E 407 | 7.0 | June 18:00 | 10.6 | 951.8 |

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 407 | | | | | | |
| 4E 407 | 7.0 | June 18:00 | 393 | 10.6 | 951.8 | 0.41 |

Air System Heat Balance Summary for 31 4E 407 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - JULY 17:00 | | | DESIGN HEATING | | |
|------------------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | OA DB / WB 84.9 F / 69.7 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 | - | 6189 | 393 | - | 10709 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 393 CFM | 0 | - | 393 CFM | 0 | - |
| Ventilation Load | 50 CFM | 231 | 175 | 50 CFM | 2136 | 0 |
| Supply Fan Load | 393 CFM | 0 | - | 393 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 6420 | 567 | - | 12845 | 0 |
| Central Cooling Coil | - | 6427 | 807 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 12851 | - |
| >> Total Conditioning | - | 6427 | 807 | - | 12851 | 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 84.9 F / 69.7 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 | 187 sqft | 246 | - | 187 sqft | 538 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 50 sqft | 364 | - | 50 sqft | 543 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 42 sqft | 301 | - | 42 sqft | 455 | - |
| Floor Convection | 952 sqft | 1574 | - | 952 sqft | 921 | - |
| Interior Wall Convection | 727 sqft | 661 | - | 727 sqft | 441 | - |
| Ceiling Convection | 952 sqft | 2545 | - | 952 sqft | 3059 | - |
| 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 | 28 CFM | 3259 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 854 | 0 | 15% | 1382 | 0 |
| >> Total Zone Loads | - | 6545 | 0 | - | 10598 | 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 407 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 84.8 | 0.01211 | 50 | 400 | 231 | 175 |
| Air-to-Air Energy Recovery | Outlet | 79.3 | 0.01211 | 50 | 400 | 301 | 0 |
| Vent - Return Mixing | Outlet | 75.5 | 0.01147 | 393 | 400 | - | - |
| Central Cooling Coil | Outlet | 60.7 | 0.01105 | 393 | 400 | 6427 | 807 |
| Central Heating Coil | Outlet | 60.7 | 0.01105 | 393 | 400 | 0 | - |
| Supply Fan | Outlet | 60.7 | 0.01105 | 393 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 60.7 | 0.01105 | 393 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01126 | 393 | 400 | 6189 | 393 |
| Return Air | Outlet | 75.0 | 0.01138 | 393 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 407 | 6186 | Cooling | 6189 | 75.0 | 393 | 400 | 0 | 0 |

System Psychrometrics for 31 4E 407 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 50 | 400 | -2136 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 50 | 400 | -2726 | 0 |
| Vent - Return Mixing | Outlet | 65.0 | 0.00026 | 393 | 400 | - | - |
| Central Cooling Coil | Outlet | 65.0 | 0.00026 | 393 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 95.2 | 0.00026 | 393 | 400 | 12851 | - |
| Supply Fan | Outlet | 95.2 | 0.00026 | 393 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 95.2 | 0.00026 | 393 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 393 | 400 | -10709 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 393 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 407 | -10709 | Heating | -10709 | 70.0 | 393 | 400 | 0 | 0 |

Air System Sizing Summary for 33 4E 408 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | | | |
|-----------------------|----------------------|-----------------------|---|
| Air System Name | 33 4E 408 REF | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 930.2 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Cooling Coil Sizing Data

| | | | |
|--------------------------------|-----------------|--------------------------------------|----------------------|
| Total coil load | 0.6 Tons | Peak coil load occurs at | July 17:00 |
| Total coil load | 6.7 MBH | OA DB / WB | 84.9 / 69.7 F |
| Sensible coil load | 6.7 MBH | Entering DB / WB | 75.4 / 66.8 F |
| Coil CFM at peak load | 579 CFM | Leaving DB / WB | 64.8 / 63.3 F |
| Sum of peak zone CFM | 579 CFM | Resulting RH | 65 % |
| Sensible heat ratio | 1.000 | Design supply temp. | 58.0 F |
| CFM/Ton | 1030.6 | Zone T-stat Check | 1 of 1 OK |
| sqft/Ton | 1655.9 | Max zone temperature deviation | 0.0 F |
| BTU/(hr sqft) | 7.2 | | |
| Water flow @ 10.0 F rise | N/A | | |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|-----------------|------------------------|-----------------------|
| Max coil load | 17.8 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 579 CFM | BTU/(hr sqft) | 19.2 |
| Max coil CFM | 579 CFM | Ent. DB / Lvg DB | 66.6 / 95.1 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|---------------------|-----------------|
| Design CFM | 579 CFM | Fan motor BHP | 0.00 BHP |
| Design CFM/sqft | 0.62 CFM/sqft | Fan motor kW | 0.00 kW |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 50 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.05 CFM/sqft | | |

Zone Sizing Summary for 33 4E 408 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | |
|--|--|
| Air System Name 33 4E 408 REF | Number of zones 1 |
| Equipment Class SPLT AHU | Floor Area 930.2 sqft |
| Air System Type SZCAV | Location Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | |
|--|---|
| Calculation Months Jan to Dec | Zone CFM Sizing Sum of space airflow rates |
| 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) |
|-----------|-----------------------------|------------------------------|---------------|----------------------------|--------------------------------|-----------------------------------|----------------------------------|------------------------------|
| 4E 408 | 579 | 579 | 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) |
|-----------|-----------------------------|------------------------------------|-------------------------|------------------------|
| 4E 408 | 6.8 | June 17:00 | 15.6 | 930.2 |

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 408 | | | | | | |
| 4E 408 | 6.8 | June 17:00 | 579 | 15.6 | 930.2 | 0.62 |

Air System Heat Balance Summary for 33 4E 408 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - JULY 17:00 | | | DESIGN HEATING | | |
|-------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | OA DB / WB 84.9 F / 69.7 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 | - | 6504 | -1 | - | 15696 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 579 CFM | 0 | - | 579 CFM | 0 | - |
| Ventilation Load | 50 CFM | 231 | 2 | 50 CFM | 2136 | 0 |
| Supply Fan Load | 579 CFM | 0 | - | 579 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 6735 | 1 | - | 17832 | 0 |
| Central Cooling Coil | - | 6741 | 0 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 17838 | - |
| >> Total Conditioning | - | 6741 | 0 | - | 17838 | 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 84.9 F / 69.7 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 | 336 sqft | 484 | - | 336 sqft | 1111 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 105 sqft | 647 | - | 105 sqft | 1254 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 42 sqft | 112 | - | 42 sqft | 511 | - |
| Floor Convection | 930 sqft | 1554 | - | 930 sqft | 1177 | - |
| Interior Wall Convection | 510 sqft | 472 | - | 510 sqft | 416 | - |
| Ceiling Convection | 930 sqft | 2605 | - | 930 sqft | 3450 | - |
| 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 | 5658 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 881 | 0 | 15% | 2036 | 0 |
| >> Total Zone Loads | - | 6755 | 0 | - | 15613 | 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 408 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 84.8 | 0.01211 | 50 | 400 | 231 | 2 |
| Air-to-Air Energy Recovery | Outlet | 79.3 | 0.01211 | 50 | 400 | 302 | 0 |
| Vent - Return Mixing | Outlet | 75.4 | 0.01211 | 579 | 400 | - | - |
| Central Cooling Coil | Outlet | 64.8 | 0.01211 | 579 | 400 | 6741 | 0 |
| Central Heating Coil | Outlet | 64.8 | 0.01211 | 579 | 400 | 0 | - |
| Supply Fan | Outlet | 64.8 | 0.01211 | 579 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 64.8 | 0.01211 | 579 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01211 | 579 | 400 | 6504 | -1 |
| Return Air | Outlet | 75.0 | 0.01211 | 579 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | 6504 | Cooling | 6504 | 75.0 | 579 | 400 | 0 | 0 |

System Psychrometrics for 33 4E 408 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 50 | 400 | -2136 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 50 | 400 | -2726 | 0 |
| Vent - Return Mixing | Outlet | 66.6 | 0.00026 | 579 | 400 | - | - |
| Central Cooling Coil | Outlet | 66.6 | 0.00026 | 579 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 95.1 | 0.00026 | 579 | 400 | 17838 | - |
| Supply Fan | Outlet | 95.1 | 0.00026 | 579 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 95.1 | 0.00026 | 579 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 579 | 400 | -15696 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 579 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | -15696 | Heating | -15696 | 70.0 | 579 | 400 | 0 | 0 |

Air System Sizing Summary for 35 RDC x 8 Log REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | | | |
|-----------------|--------------------|-----------------|----------------------------------|
| Air System Name | 35 RDC x 8 Log REF | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 7447.7 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------|------------|------------------|-----------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Cooling Coil Sizing Data

| | | | |
|--------------------------|----------|--------------------------------|---------------|
| Total coil load | 2.9 Tons | Peak coil load occurs at | July 17:00 |
| Total coil load | 34.2 MBH | OA DB / WB | 84.9 / 69.7 F |
| Sensible coil load | 34.2 MBH | Entering DB / WB | 75.6 / 66.9 F |
| Coil CFM at peak load | 2999 CFM | Leaving DB / WB | 65.2 / 63.5 F |
| Sum of peak zone CFM | 2999 CFM | Resulting RH | 65 % |
| Sensible heat ratio | 1.000 | Design supply temp. | 58.0 F |
| CFM/Ton | 1051.2 | Zone T-stat Check | 1 of 1 OK |
| sqft/Ton | 2610.7 | Max zone temperature deviation | 0.0 F |
| BTU/(hr sqft) | 4.6 | | |
| Water flow @ 10.0 F rise | N/A | | |

Central Heating Coil Sizing Data

| | | | |
|----------------------------|----------|------------------|----------------|
| Max coil load | 99.8 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 2999 CFM | BTU/(hr sqft) | 13.4 |
| Max coil CFM | 2999 CFM | Ent. DB / Lvg DB | 64.7 / 95.5 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------|---------------|---------------|----------|
| Design CFM | 2999 CFM | Fan motor BHP | 0.00 BHP |
| Design CFM/sqft | 0.40 CFM/sqft | Fan motor kW | 0.00 kW |

Outdoor Ventilation Air Data

| | | | |
|--------------------|---------------|------------|-----------------|
| Design airflow CFM | 400 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.05 CFM/sqft | | |

Zone Sizing Summary for 35 RDC x 8 Log REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

Air System Name **35 RDC x 8 Log REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **7447.7** sqft
 Location **Quebec City Beauport, QC, Canada**

Sizing Calculation 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 x 8 Log | 2999 | 2999 | 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) |
|-------------|-----------------------------|------------------------------------|-------------------------|------------------------|
| RDC x 8 Log | 32.0 | July 17:00 | 80.9 | 7447.7 |

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 x 8 Log | | | | | | |
| RDC x 8 Log | 32.0 | July 17:00 | 2999 | 80.9 | 7447.7 | 0.40 |

Air System Heat Balance Summary for 35 RDC x 8 Log REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - JULY 17:00 | | | DESIGN HEATING | | |
|------------------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 84.9 F / 69.7 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Zone Conditioning | - | 32335 | -8 | - | 82671 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 2999 CFM | 0 | - | 2999 CFM | 0 | - |
| Ventilation Load | 400 CFM | 1851 | 12 | 400 CFM | 17087 | 0 |
| Supply Fan Load | 2999 CFM | 0 | - | 2999 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 34186 | 4 | - | 99757 | 0 |
| Central Cooling Coil | - | 34232 | 0 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 99806 | - |
| >> Total Conditioning | - | 34232 | 0 | - | 99806 | 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 | | |
|----------------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 84.9 F / 69.7 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Exterior Wall Convection | 2295 sqft | 3688 | - | 2295 sqft | 6624 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 584 sqft | 2875 | - | 584 sqft | 6254 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 336 sqft | 1212 | - | 336 sqft | 3595 | - |
| Floor Convection | 7448 sqft | 8121 | - | 7448 sqft | 6204 | - |
| Interior Wall Convection | 1948 sqft | 1520 | - | 1948 sqft | 990 | - |
| Ceiling Convection | 7448 sqft | 10402 | - | 7448 sqft | 9143 | - |
| 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 | 321 CFM | 37515 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 4173 | 0 | 15% | 10549 | 0 |
| >> Total Zone Loads | - | 31991 | 0 | - | 80873 | 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 RDC x 8 Log REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 84.8 | 0.01211 | 400 | 400 | 1851 | 12 |
| Air-to-Air Energy Recovery | Outlet | 79.3 | 0.01211 | 400 | 400 | 2415 | 0 |
| Vent - Return Mixing | Outlet | 75.6 | 0.01211 | 2999 | 400 | - | - |
| Central Cooling Coil | Outlet | 65.2 | 0.01211 | 2999 | 400 | 34232 | 0 |
| Central Heating Coil | Outlet | 65.2 | 0.01211 | 2999 | 400 | 0 | - |
| Supply Fan | Outlet | 65.2 | 0.01211 | 2999 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 65.2 | 0.01211 | 2999 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01211 | 2999 | 400 | 32335 | -8 |
| Return Air | Outlet | 75.0 | 0.01211 | 2999 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 x 8 Log | 32335 | Cooling | 32335 | 75.0 | 2999 | 400 | 0 | 0 |

System Psychrometrics for 35 RDC x 8 Log REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | -17087 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 400 | 400 | -21808 | 0 |
| Vent - Return Mixing | Outlet | 64.7 | 0.00026 | 2999 | 400 | - | - |
| Central Cooling Coil | Outlet | 64.7 | 0.00026 | 2999 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 95.5 | 0.00026 | 2999 | 400 | 99806 | - |
| Supply Fan | Outlet | 95.5 | 0.00026 | 2999 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 95.5 | 0.00026 | 2999 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 2999 | 400 | -82671 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 2999 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 x 8 Log | -82671 | Heating | -82671 | 70.0 | 2999 | 400 | 0 | 0 |

Air System Sizing Summary for 37 3E ESC1 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | | | |
|-----------------------|-----------------------|-----------------------|---|
| Air System Name | 37 3E ESC1 REF | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 228.3 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|----------------|------------------------|-----------------------|
| Max coil load | 1.8 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 65 CFM | BTU/(hr sqft) | 7.8 |
| Max coil CFM | 65 CFM | Ent. DB / Lvg DB | 70.0 / 95.4 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|------------------------|-------------------|
| Design CFM | 65 CFM | Fan motor BHP | 0.02 BHP |
| Design CFM/sqft | 0.28 CFM/sqft | Fan motor kW | 0.02 kW |
| | | Fan total static | 2.00 in wg |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 0 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.00 CFM/sqft | | |

Zone Sizing Summary for 37 3E ESC1 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

Air System Name **37 3E ESC1 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **228.3** sqft
 Location **Quebec City Beauport, QC, Canada**

Sizing Calculation 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 | 65 | 65 | 0.28 | 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 | 1.8 | 228.3 |

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 |
|------------------------|------------------------|----------------------------|----------------|--------------------|-------------------|----------------|
| 3E ESC1 | | | | | | |
| 3E ESC1 | 0.0 | February 13:00 | 65 | 1.8 | 228.3 | 0.28 |

Air System Heat Balance Summary for 37 3E ESC1 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | - | - | - | - | 1839 | 0 |
| Plenum Load | - | - | - | - | 0 | 0 |
| Return Fan Load | - | - | - | 65 CFM | 0 | - |
| Ventilation Load | - | - | - | 0 CFM | 0 | 0 |
| Supply Fan Load | - | - | - | 65 CFM | -52 | - |
| Zone Fan Coil Fans Load | - | - | - | - | 0 | - |
| >> Total System Loads | - | - | - | - | 1787 | 0 |
| Central Heating Coil | - | - | - | - | 1787 | - |
| >> Total Conditioning | - | - | - | - | 1787 | 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 | 60 sqft | - | - | 60 sqft | 145 | - |
| Roof Convection | 0 sqft | - | - | 0 sqft | 0 | - |
| Window Convection | 12 sqft | - | - | 12 sqft | 129 | - |
| Skylight Convection | 0 sqft | - | - | 0 sqft | 0 | - |
| Door Convection | 0 sqft | - | - | 0 sqft | 0 | - |
| Floor Convection | 228 sqft | - | - | 228 sqft | 101 | - |
| Interior Wall Convection | 524 sqft | - | - | 524 sqft | 163 | - |
| Ceiling Convection | 228 sqft | - | - | 228 sqft | 151 | - |
| Overhead Lighting Convection | - | - | - | 0 W | 0 | - |
| Task Lighting Convection | - | - | - | 0 W | 0 | - |
| Electric Equipment Convection | - | - | - | 0 W | 0 | - |
| People Convection | - | - | - | 0 | 0 | 0 |
| Infiltration | - | - | - | 7 CFM | 835 | 0 |
| Miscellaneous Equipment | - | - | - | - | 0 | 0 |
| Air Internal Energy Change | - | - | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | - | - | 15% | 229 | 0 |
| >> Total Zone Loads | - | - | - | - | 1753 | 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 3E ESC1 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 65 | 400 | - | - |
| Central Heating Coil | Outlet | 95.4 | 0.00026 | 65 | 400 | 1787 | - |
| Supply Fan | Outlet | 96.2 | 0.00026 | 65 | 400 | 52 | - |
| Cold Supply Duct | Outlet | 96.2 | 0.00026 | 65 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 65 | 400 | -1839 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 65 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | -1839 | Heating | -1839 | 70.0 | 65 | 400 | 0 | 0 |

Air System Sizing Summary for 39 4E ESC1 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | | | |
|-----------------------|-----------------------|-----------------------|---|
| Air System Name | 39 4E ESC1 REF | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 140.2 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|----------------|------------------------|-----------------------|
| Max coil load | 1.6 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 60 CFM | BTU/(hr sqft) | 11.2 |
| Max coil CFM | 60 CFM | Ent. DB / Lvg DB | 70.0 / 94.4 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|------------------------|-------------------|
| Design CFM | 60 CFM | Fan motor BHP | 0.02 BHP |
| Design CFM/sqft | 0.42 CFM/sqft | Fan motor kW | 0.01 kW |
| | | Fan total static | 2.00 in wg |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 0 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.00 CFM/sqft | | |

Zone Sizing Summary for 39 4E ESC1 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | |
|---|--|
| Air System Name 39 4E ESC1 REF | Number of zones 1 |
| Equipment Class SPLT AHU | Floor Area 140.2 sqft |
| Air System Type SZCAV | Location Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | |
|--|---|
| Calculation Months Jan to Dec | Zone CFM Sizing Sum of space airflow rates |
| 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) |
|-----------|-----------------------------|------------------------------|---------------|----------------------------|--------------------------------|-----------------------------------|----------------------------------|------------------------------|
| 4E ESC1 | 60 | 60 | 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 ESC1 | 0.0 | June 16:00 | 1.6 | 140.2 |

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 ESC1 | | | | | | |
| 4E ESC1 | 0.0 | June 16:00 | 60 | 1.6 | 140.2 | 0.42 |

Air System Heat Balance Summary for 39 4E ESC1 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | - | - | - | - | 1618 | 0 |
| Plenum Load | - | - | - | - | 0 | 0 |
| Return Fan Load | - | - | - | 60 CFM | 0 | - |
| Ventilation Load | - | - | - | 0 CFM | 0 | 0 |
| Supply Fan Load | - | - | - | 60 CFM | -48 | - |
| Zone Fan Coil Fans Load | - | - | - | - | 0 | - |
| >> Total System Loads | - | - | - | - | 1570 | 0 |
| Central Heating Coil | - | - | - | - | 1570 | - |
| >> Total Conditioning | - | - | - | - | 1570 | 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 | 29 sqft | - | - | 29 sqft | 79 | - |
| Roof Convection | 0 sqft | - | - | 0 sqft | 0 | - |
| Window Convection | 12 sqft | - | - | 12 sqft | 127 | - |
| Skylight Convection | 0 sqft | - | - | 0 sqft | 0 | - |
| Door Convection | 0 sqft | - | - | 0 sqft | 0 | - |
| Floor Convection | 140 sqft | - | - | 140 sqft | 89 | - |
| Interior Wall Convection | 489 sqft | - | - | 489 sqft | 208 | - |
| Ceiling Convection | 140 sqft | - | - | 140 sqft | 410 | - |
| Overhead Lighting Convection | - | - | - | 0 W | 0 | - |
| Task Lighting Convection | - | - | - | 0 W | 0 | - |
| Electric Equipment Convection | - | - | - | 0 W | 0 | - |
| People Convection | - | - | - | 0 | 0 | 0 |
| Infiltration | - | - | - | 4 CFM | 483 | 0 |
| Miscellaneous Equipment | - | - | - | - | 0 | 0 |
| Air Internal Energy Change | - | - | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | - | - | 15% | 210 | 0 |
| >> Total Zone Loads | - | - | - | - | 1607 | 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 ESC1 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 60 | 400 | - | - |
| Central Heating Coil | Outlet | 94.4 | 0.00026 | 60 | 400 | 1570 | - |
| Supply Fan | Outlet | 95.1 | 0.00026 | 60 | 400 | 48 | - |
| Cold Supply Duct | Outlet | 95.1 | 0.00026 | 60 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 60 | 400 | -1618 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 60 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | -1618 | Heating | -1618 | 70.0 | 60 | 400 | 0 | 0 |

Air System Sizing Summary for 41 4E ESC2 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | | | |
|-----------------------|-----------------------|-----------------------|---|
| Air System Name | 41 4E ESC2 REF | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 168.9 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|----------------|------------------------|-----------------------|
| Max coil load | 5.6 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 212 CFM | BTU/(hr sqft) | 33.0 |
| Max coil CFM | 212 CFM | Ent. DB / Lvg DB | 70.0 / 94.3 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|------------------------|-------------------|
| Design CFM | 212 CFM | Fan motor BHP | 0.06 BHP |
| Design CFM/sqft | 1.26 CFM/sqft | Fan motor kW | 0.05 kW |
| | | Fan total static | 2.00 in wg |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 0 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.00 CFM/sqft | | |

Zone Sizing Summary for 41 4E ESC2 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | |
|---|--|
| Air System Name 41 4E ESC2 REF | Number of zones 1 |
| Equipment Class SPLT AHU | Floor Area 168.9 sqft |
| Air System Type SZCAV | Location Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | |
|--|---|
| Calculation Months Jan to Dec | Zone CFM Sizing Sum of space airflow rates |
| 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) |
|-----------|-----------------------------|------------------------------|---------------|----------------------------|--------------------------------|-----------------------------------|----------------------------------|------------------------------|
| 4E ESC2 | 212 | 212 | 1.26 | 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 | 0.0 | August 7:00 | 5.7 | 168.9 |

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 ESC2 | | | | | | |
| 4E ESC2 | 0.0 | August 7:00 | 212 | 5.7 | 168.9 | 1.26 |

Air System Heat Balance Summary for 41 4E ESC2 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | - | - | - | - | 5735 | 0 |
| Plenum Load | - | - | - | - | 0 | 0 |
| Return Fan Load | - | - | - | 212 CFM | 0 | - |
| Ventilation Load | - | - | - | 0 CFM | 0 | 0 |
| Supply Fan Load | - | - | - | 212 CFM | -170 | - |
| Zone Fan Coil Fans Load | - | - | - | - | 0 | - |
| >> Total System Loads | - | - | - | - | 5565 | 0 |
| Central Heating Coil | - | - | - | - | 5565 | - |
| >> Total Conditioning | - | - | - | - | 5565 | 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 | 219 sqft | - | - | 219 sqft | 780 | - |
| Roof Convection | 0 sqft | - | - | 0 sqft | 0 | - |
| Window Convection | 24 sqft | - | - | 24 sqft | 337 | - |
| Skylight Convection | 0 sqft | - | - | 0 sqft | 0 | - |
| Door Convection | 0 sqft | - | - | 0 sqft | 0 | - |
| Floor Convection | 169 sqft | - | - | 169 sqft | 181 | - |
| Interior Wall Convection | 243 sqft | - | - | 243 sqft | 197 | - |
| Ceiling Convection | 169 sqft | - | - | 169 sqft | 638 | - |
| Overhead Lighting Convection | - | - | - | 0 W | 0 | - |
| Task Lighting Convection | - | - | - | 0 W | 0 | - |
| Electric Equipment Convection | - | - | - | 0 W | 0 | - |
| People Convection | - | - | - | 0 | 0 | 0 |
| Infiltration | - | - | - | 24 CFM | 2840 | 0 |
| Miscellaneous Equipment | - | - | - | - | 0 | 0 |
| Air Internal Energy Change | - | - | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | - | - | 15% | 746 | 0 |
| >> Total Zone Loads | - | - | - | - | 5719 | 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 ESC2 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 212 | 400 | - | - |
| Central Heating Coil | Outlet | 94.3 | 0.00026 | 212 | 400 | 5565 | - |
| Supply Fan | Outlet | 95.0 | 0.00026 | 212 | 400 | 170 | - |
| Cold Supply Duct | Outlet | 95.0 | 0.00026 | 212 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 212 | 400 | -5735 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 212 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | -5735 | Heating | -5735 | 70.0 | 212 | 400 | 0 | 0 |

Air System Sizing Summary for 43 SS Stationnement REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | | | |
|-----------------------|--------------------------------|-----------------------|---|
| Air System Name | 43 SS Stationnement REF | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 13832.4 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|-----------------|------------------------|-----------------------|
| Max coil load | 34.9 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 1307 CFM | BTU/(hr sqft) | 2.5 |
| Max coil CFM | 1307 CFM | Ent. DB / Lvg DB | 70.0 / 94.7 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|------------------------|-------------------|
| Design CFM | 1307 CFM | Fan motor BHP | 0.39 BHP |
| Design CFM/sqft | 0.09 CFM/sqft | Fan motor kW | 0.31 kW |
| | | Fan total static | 2.00 in wg |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 0 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.00 CFM/sqft | | |

Zone Sizing Summary for 43 SS Stationnement REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

Air System Name **43 SS Stationnement REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **13832.4** sqft
 Location **Quebec City Beauport, QC, Canada**

Sizing Calculation 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) |
|------------------|-----------------------------|------------------------------|---------------|----------------------------|--------------------------------|-----------------------------------|----------------------------------|------------------------------|
| SS Stationnement | 1307 | 1307 | 0.09 | 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) |
|------------------|-----------------------------|------------------------------------|-------------------------|------------------------|
| SS Stationnement | 0.0 | January 9:00 | 35.2 | 13832.4 |

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 |
|-------------------------|------------------------|----------------------------|----------------|--------------------|-------------------|----------------|
| SS Stationnement | | | | | | |
| SS Stationnement | 0.0 | January 9:00 | 1307 | 35.2 | 13832.4 | 0.09 |

Air System Heat Balance Summary for 43 SS Stationnement REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | - | - | - | - | 35990 | 0 |
| Plenum Load | - | - | - | - | 0 | 0 |
| Return Fan Load | - | - | - | 1307 CFM | 0 | - |
| Ventilation Load | - | - | - | 0 CFM | 0 | 0 |
| Supply Fan Load | - | - | - | 1307 CFM | -1046 | - |
| Zone Fan Coil Fans Load | - | - | - | - | 0 | - |
| >> Total System Loads | - | - | - | - | 34944 | 0 |
| Central Heating Coil | - | - | - | - | 34944 | - |
| >> Total Conditioning | - | - | - | - | 34944 | 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 | 4355 sqft | - | - | 4355 sqft | 8857 | - |
| 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 | 13832 sqft | - | - | 13832 sqft | 20799 | - |
| Interior Wall Convection | 487 sqft | - | - | 487 sqft | 12 | - |
| Ceiling Convection | 13832 sqft | - | - | 13832 sqft | 979 | - |
| 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% | 4597 | 0 |
| >> Total Zone Loads | - | - | - | - | 35244 | 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 SS Stationnement REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 1307 | 400 | - | - |
| Central Heating Coil | Outlet | 94.7 | 0.00026 | 1307 | 400 | 34944 | - |
| Supply Fan | Outlet | 95.5 | 0.00026 | 1307 | 400 | 1046 | - |
| Cold Supply Duct | Outlet | 95.5 | 0.00026 | 1307 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 1307 | 400 | -35990 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 1307 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat Mode | Zone Cond (BTU/hr) | Zone Temp (F) | Zone Airflow (CFM) | CO2 Level (ppm) | Terminal Heating Coil (BTU/hr) | Zone Heating Unit (BTU/hr) |
|------------------|-----------------------------|-------------|--------------------|---------------|--------------------|-----------------|--------------------------------|----------------------------|
| SS Stationnement | -35990 | Heating | -35990 | 70.0 | 1307 | 400 | 0 | 0 |

Air System Sizing Summary for 45 Couloir et SAS REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | | | |
|-----------------------|------------------------------|-----------------------|---|
| Air System Name | 45 Couloir et SAS REF | Number of zones | 7 |
| Equipment Class | PKG ROOF | Floor Area | 2750.4 sqft |
| Air System Type | VAV | Location | Quebec City Beauport, QC, Canada |

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 |

Central Cooling Coil Sizing Data

| | | | |
|--------------------------------|-----------------|--------------------------------------|----------------------|
| Total coil load | 0.6 Tons | Peak coil load occurs at | July 8:00 |
| Total coil load | 7.8 MBH | OA DB / WB | 70.6 / 65.2 F |
| Sensible coil load | 7.8 MBH | Entering DB / WB | 75.0 / 53.4 F |
| Coil CFM at peak load | 356 CFM | Leaving DB / WB | 55.0 / 44.4 F |
| Sum of peak zone CFM | 841 CFM | Resulting RH | 21 % |
| Sensible heat ratio | 1.000 | Design supply temp. | 55.0 F |
| CFM/Ton | 551.1 | Zone T-stat Check | 7 of 7 OK |
| sqft/Ton | 4251.9 | Max zone temperature deviation | 0.0 F |
| BTU/(hr sqft) | 2.8 | | |
| Water flow @ 10.0 F rise | N/A | | |

Preheat Coil Sizing Data

No heating coil loads occurred during this calculation.

Supply Fan Sizing Data

| | | | |
|----------------------------|----------------------|---------------------|-----------------|
| Design CFM | 749 CFM | Fan motor BHP | 0.00 BHP |
| Design CFM occurs at | June 8:00 | Fan motor kW | 0.00 kW |
| Design CFM/sqft | 0.27 CFM/sqft | | |
| Sum of peak zone CFM | 841 CFM | | |
| VAV Fan Diversity | 10.9 % | | |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 0 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.00 CFM/sqft | | |

Zone Sizing Summary for 45 Couloir et SAS REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

Air System Name **45 Couloir et SAS REF**
 Equipment Class **PKG ROOF**
 Air System Type **VAV**

Number of zones **7**
 Floor Area **2750.4** sqft
 Location **Quebec City Beauport, 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 | 176 | 2 | 0.27 | 0.0 | - | 0.0 | - | 0 |
| 3E Corridor | 174 | 2 | 0.27 | 0.0 | - | 0.0 | - | 0 |
| 4E Corridor | 250 | 3 | 0.38 | 10.8 | - | 0.0 | - | 0 |
| RDC Corridor | 24 | 0 | 0.05 | 0.0 | - | 0.0 | - | 0 |
| RDC SAS | 186 | 2 | 1.18 | 8.1 | - | 0.0 | - | 0 |
| SS SAS1 | 13 | 0 | 0.27 | 0.0 | - | 0.0 | - | 0 |
| SS SAS2 | 17 | 0 | 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 Corridor | 2.0 | June 8:00 | 4.7 | 654.8 |
| 3E Corridor | 1.9 | June 8:00 | 4.7 | 654.8 |
| 4E Corridor | 2.1 | July 16:00 | 6.7 | 654.8 |
| RDC Corridor | 0.5 | July 19:00 | 0.3 | 496.5 |
| RDC SAS | 3.8 | June 7:00 | 5.0 | 157.9 |
| SS SAS1 | 0.0 | July 0:00 | 0.4 | 49.9 |
| SS SAS2 | 0.0 | July 0:00 | 0.5 | 81.8 |

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 Corridor | | | | | | |
| 2E Corridor | 2.0 | June 8:00 | 176 | 4.7 | 654.8 | 0.27 |
| 3E Corridor | | | | | | |
| 3E Corridor | 1.9 | June 8:00 | 174 | 4.7 | 654.8 | 0.27 |
| 4E Corridor | | | | | | |
| 4E Corridor | 2.1 | July 16:00 | 250 | 6.7 | 654.8 | 0.38 |
| RDC Corridor | | | | | | |
| RDC Corridor | 0.5 | July 19:00 | 24 | 0.3 | 496.5 | 0.05 |
| RDC SAS | | | | | | |
| RDC SAS | 3.8 | June 7:00 | 186 | 5.0 | 157.9 | 1.18 |
| SS SAS1 | | | | | | |
| SS SAS1 | 0.0 | July 0:00 | 13 | 0.4 | 49.9 | 0.27 |
| SS SAS2 | | | | | | |
| SS SAS2 | 0.0 | July 0:00 | 17 | 0.5 | 81.8 | 0.21 |

Air System Heat Balance Summary for 45 Couloir et SAS REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - JULY 8:00 | | | DESIGN HEATING | | |
|-------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 70.6 F / 65.2 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Zone Conditioning | - | 7762 | 1 | - | 11816 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 356 CFM | 0 | - | 440 CFM | 0 | - |
| Ventilation Load | 0 CFM | 0 | 0 | 0 CFM | 0 | 0 |
| Supply Fan Load | 356 CFM | 0 | - | 440 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 7762 | 1 | - | 11816 | 0 |
| Central Cooling Coil | - | 7763 | 0 | - | -7060 | 0 |
| Preheat Coil | - | 0 | - | - | 0 | - |
| Terminal Reheat Coils | - | 0 | - | - | 18876 | - |
| >> Total Conditioning | - | 7763 | 0 | - | 11817 | 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 | | |
|-------------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 70.6 F / 65.2 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Exterior Wall Convection | 778 sqft | 512 | - | 778 sqft | 1993 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 90 sqft | 494 | - | 90 sqft | 989 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 63 sqft | 630 | - | 63 sqft | 882 | - |
| Floor Convection | 2750 sqft | 1790 | - | 2750 sqft | 1474 | - |
| Interior Wall Convection | 8233 sqft | 3354 | - | 8233 sqft | 2320 | - |
| Ceiling Convection | 2751 sqft | 1434 | - | 2751 sqft | 2987 | - |
| 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 | 75 CFM | 8784 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 1232 | 0 | 15% | 2914 | 0 |
| >> Total Zone Loads | - | 9444 | 0 | - | 22343 | 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 Couloir et SAS REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 71.0 | 0.01210 | 0 | 400 | 0 | 0 |
| Vent - Return Mixing | Outlet | 75.0 | 0.00376 | 356 | 400 | - | - |
| Preheat Coil | Outlet | 75.0 | 0.00376 | 356 | 400 | 0 | - |
| Central Cooling Coil | Outlet | 55.0 | 0.00376 | 356 | 400 | 7763 | 0 |
| Supply Fan | Outlet | 55.0 | 0.00376 | 356 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 55.0 | 0.00376 | 356 | 400 | - | - |
| Zone Air | - | 75.0 | 0.00383 | 356 | 400 | 7762 | 1 |
| Return Air | Outlet | 75.0 | 0.00376 | 356 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | 1433 | Cooling | 1433 | 75.0 | 66 | 400 | 0 | 0 |
| 3E Corridor | 1445 | Cooling | 1445 | 75.0 | 66 | 400 | 0 | 0 |
| 4E Corridor | 1190 | Cooling | 1190 | 75.0 | 55 | 400 | 0 | 0 |
| RDC Corridor | 145 | Cooling | 145 | 75.0 | 7 | 400 | 0 | 0 |
| RDC SAS | 3531 | Cooling | 3531 | 75.0 | 162 | 400 | 0 | 0 |
| SS SAS1 | 9 | Cooling | 9 | 75.0 | 0 | 400 | 0 | 0 |
| SS SAS2 | 9 | Cooling | 9 | 75.0 | 0 | 400 | 0 | 0 |

System Psychrometrics for 45 Couloir et SAS REF (In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 69.8 | 0.00026 | 440 | 400 | - | - |
| Preheat Coil | Outlet | 69.8 | 0.00026 | 440 | 400 | 0 | - |
| Central Cooling Coil | Outlet | 55.0 | 0.00026 | 440 | 400 | 7060 | 0 |
| Supply Fan | Outlet | 55.0 | 0.00026 | 440 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 55.0 | 0.00026 | 440 | 400 | - | - |
| Zone Air | - | 63.6 | 0.00026 | 440 | 400 | -11816 | 0 |
| Return Air | Outlet | 69.8 | 0.00026 | 440 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | -22919 | Heating | 7 | 58.8 | 2 | 400 | 0 | 0 |
| 3E Corridor | -22557 | Heating | 7 | 59.0 | 2 | 400 | 0 | 0 |
| 4E Corridor | -7017 | Heating | -6780 | 69.9 | 250 | 400 | 10820 | 0 |
| RDC Corridor | -1686 | Heating | 4 | 68.5 | 0 | 400 | 0 | 0 |
| RDC SAS | -5178 | Heating | -5055 | 69.9 | 186 | 400 | 8056 | 0 |
| SS SAS1 | -2692 | Heating | 0 | 54.9 | 0 | 400 | 0 | 0 |
| SS SAS2 | -4728 | Heating | -1 | 52.0 | 0 | 400 | 0 | 0 |

Air System Sizing Summary for 47 3E ESC2 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | | | |
|-----------------------|-----------------------|-----------------------|---|
| Air System Name | 47 3E ESC2 REF | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 168.9 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|----------------|------------------------|-----------------------|
| Max coil load | 5.1 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 193 CFM | BTU/(hr sqft) | 30.4 |
| Max coil CFM | 193 CFM | Ent. DB / Lvg DB | 70.0 / 94.6 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|------------------------|-------------------|
| Design CFM | 193 CFM | Fan motor BHP | 0.06 BHP |
| Design CFM/sqft | 1.14 CFM/sqft | Fan motor kW | 0.05 kW |
| | | Fan total static | 2.00 in wg |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 0 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.00 CFM/sqft | | |

Zone Sizing Summary for 47 3E ESC2 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

Air System Name **47 3E ESC2 REF**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **168.9** sqft
 Location **Quebec City Beauport, QC, Canada**

Sizing Calculation 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 | 193 | 193 | 1.14 | 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 | 0.0 | September 9:00 | 5.2 | 168.9 |

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 ESC2 | | | | | | |
| 3E ESC2 | 0.0 | September 9:00 | 193 | 5.2 | 168.9 | 1.14 |

Air System Heat Balance Summary for 47 3E ESC2 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | - | - | - | - | 5287 | 0 |
| Plenum Load | - | - | - | - | 0 | 0 |
| Return Fan Load | - | - | - | 193 CFM | 0 | - |
| Ventilation Load | - | - | - | 0 CFM | 0 | 0 |
| Supply Fan Load | - | - | - | 193 CFM | -154 | - |
| Zone Fan Coil Fans Load | - | - | - | - | 0 | - |
| >> Total System Loads | - | - | - | - | 5133 | 0 |
| Central Heating Coil | - | - | - | - | 5133 | - |
| >> Total Conditioning | - | - | - | - | 5133 | 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 | 221 sqft | - | - | 221 sqft | 759 | - |
| Roof Convection | 0 sqft | - | - | 0 sqft | 0 | - |
| Window Convection | 24 sqft | - | - | 24 sqft | 326 | - |
| Skylight Convection | 0 sqft | - | - | 0 sqft | 0 | - |
| Door Convection | 0 sqft | - | - | 0 sqft | 0 | - |
| Floor Convection | 169 sqft | - | - | 169 sqft | 168 | - |
| Interior Wall Convection | 245 sqft | - | - | 245 sqft | 181 | - |
| Ceiling Convection | 169 sqft | - | - | 169 sqft | 220 | - |
| Overhead Lighting Convection | - | - | - | 0 W | 0 | - |
| Task Lighting Convection | - | - | - | 0 W | 0 | - |
| Electric Equipment Convection | - | - | - | 0 W | 0 | - |
| People Convection | - | - | - | 0 | 0 | 0 |
| Infiltration | - | - | - | 24 CFM | 2862 | 0 |
| Miscellaneous Equipment | - | - | - | - | 0 | 0 |
| Air Internal Energy Change | - | - | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | - | - | 15% | 677 | 0 |
| >> Total Zone Loads | - | - | - | - | 5192 | 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 3E ESC2 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 193 | 400 | - | - |
| Central Heating Coil | Outlet | 94.6 | 0.00026 | 193 | 400 | 5133 | - |
| Supply Fan | Outlet | 95.4 | 0.00026 | 193 | 400 | 154 | - |
| Cold Supply Duct | Outlet | 95.4 | 0.00026 | 193 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 193 | 400 | -5287 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 193 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | -5287 | Heating | -5287 | 70.0 | 193 | 400 | 0 | 0 |

Air System Sizing Summary for 02 2E x 8 Log CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | | | |
|-----------------------|--------------------------|-----------------------|---|
| Air System Name | 02 2E x 8 Log CPT | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 7510.8 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Cooling Coil Sizing Data

| | | | |
|--------------------------------|-----------------|--------------------------------------|----------------------|
| Total coil load | 2.9 Tons | Peak coil load occurs at | July 17:00 |
| Total coil load | 34.9 MBH | OA DB / WB | 84.9 / 69.7 F |
| Sensible coil load | 34.9 MBH | Entering DB / WB | 75.6 / 66.9 F |
| Coil CFM at peak load | 3032 CFM | Leaving DB / WB | 65.2 / 63.4 F |
| Sum of peak zone CFM | 3032 CFM | Resulting RH | 65 % |
| Sensible heat ratio | 1.000 | Design supply temp. | 58.0 F |
| CFM/Ton | 1042.8 | Zone T-stat Check | 1 of 1 OK |
| sqft/Ton | 2583.7 | Max zone temperature deviation | 0.0 F |
| BTU/(hr sqft) | 4.6 | | |
| Water flow @ 10.0 F rise | N/A | | |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|------------------|------------------------|-----------------------|
| Max coil load | 103.0 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 3032 CFM | BTU/(hr sqft) | 13.7 |
| Max coil CFM | 3032 CFM | Ent. DB / Lvg DB | 64.8 / 96.2 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|---------------------|-----------------|
| Design CFM | 3032 CFM | Fan motor BHP | 0.00 BHP |
| Design CFM/sqft | 0.40 CFM/sqft | Fan motor kW | 0.00 kW |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 400 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.05 CFM/sqft | | |

Zone Sizing Summary for 02 2E x 8 Log CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

Air System Name **02 2E x 8 Log CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **7510.8** sqft
 Location **Quebec City Beauport, QC, Canada**

Sizing Calculation 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 x 8 Log | 3032 | 3032 | 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) |
|------------|-----------------------------|------------------------------------|-------------------------|------------------------|
| 2E x 8 Log | 33.3 | July 17:00 | 81.8 | 7510.8 |

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 x 8 Log | | | | | | |
| 2E x 8 Log | 33.3 | July 17:00 | 3032 | 81.8 | 7510.8 | 0.40 |

Air System Heat Balance Summary for 02 2E x 8 Log CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - JULY 17:00 | | | DESIGN HEATING | | |
|-------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | OA DB / WB 84.9 F / 69.7 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 | - | 32987 | -8 | - | 85858 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 3032 CFM | 0 | - | 3032 CFM | 0 | - |
| Ventilation Load | 400 CFM | 1851 | 12 | 400 CFM | 17087 | 0 |
| Supply Fan Load | 3032 CFM | 0 | - | 3032 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 34838 | 4 | - | 102945 | 0 |
| Central Cooling Coil | - | 34884 | 0 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 102993 | - |
| >> Total Conditioning | - | 34884 | 0 | - | 102993 | 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 84.9 F / 69.7 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 | 2216 sqft | 3627 | - | 2216 sqft | 6493 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 581 sqft | 2876 | - | 581 sqft | 6281 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 336 sqft | 1238 | - | 336 sqft | 3638 | - |
| Floor Convection | 7511 sqft | 8877 | - | 7511 sqft | 7814 | - |
| Interior Wall Convection | 1948 sqft | 1581 | - | 1948 sqft | 1075 | - |
| Ceiling Convection | 7511 sqft | 10733 | - | 7511 sqft | 9217 | - |
| 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 | 313 CFM | 36572 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 4340 | 0 | 15% | 10663 | 0 |
| >> Total Zone Loads | - | 33273 | 0 | - | 81753 | 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 x 8 Log CPT (In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 84.8 | 0.01211 | 400 | 400 | 1851 | 12 |
| Air-to-Air Energy Recovery | Outlet | 79.3 | 0.01211 | 400 | 400 | 2415 | 0 |
| Vent - Return Mixing | Outlet | 75.6 | 0.01211 | 3032 | 400 | - | - |
| Central Cooling Coil | Outlet | 65.2 | 0.01211 | 3032 | 400 | 34884 | 0 |
| Central Heating Coil | Outlet | 65.2 | 0.01211 | 3032 | 400 | 0 | - |
| Supply Fan | Outlet | 65.2 | 0.01211 | 3032 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 65.2 | 0.01211 | 3032 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01211 | 3032 | 400 | 32987 | -8 |
| Return Air | Outlet | 75.0 | 0.01211 | 3032 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 x 8 Log | 32987 | Cooling | 32987 | 75.0 | 3032 | 400 | 0 | 0 |

System Psychrometrics for 02 2E x 8 Log CPT (In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | -17087 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 400 | 400 | -21808 | 0 |
| Vent - Return Mixing | Outlet | 64.8 | 0.00026 | 3032 | 400 | - | - |
| Central Cooling Coil | Outlet | 64.8 | 0.00026 | 3032 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 96.2 | 0.00026 | 3032 | 400 | 102993 | - |
| Supply Fan | Outlet | 96.2 | 0.00026 | 3032 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 96.2 | 0.00026 | 3032 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 3032 | 400 | -85858 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 3032 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 x 8 Log | -85858 | Heating | -85858 | 70.0 | 3032 | 400 | 0 | 0 |

Air System Sizing Summary for 04 3E 301 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | | | |
|-----------------------|----------------------|-----------------------|---|
| Air System Name | 04 3E 301 CPT | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 955.8 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Cooling Coil Sizing Data

| | | | |
|--------------------------------|-----------------|--------------------------------------|----------------------|
| Total coil load | 0.6 Tons | Peak coil load occurs at | August 10:00 |
| Total coil load | 7.2 MBH | OA DB / WB | 76.7 / 67.2 F |
| Sensible coil load | 6.6 MBH | Entering DB / WB | 75.1 / 65.2 F |
| Coil CFM at peak load | 394 CFM | Leaving DB / WB | 59.9 / 59.4 F |
| Sum of peak zone CFM | 394 CFM | Resulting RH | 58 % |
| Sensible heat ratio | 0.916 | Design supply temp. | 58.0 F |
| CFM/Ton | 656.7 | Zone T-stat Check | 1 of 1 OK |
| sqft/Ton | 1592.4 | Max zone temperature deviation | 0.0 F |
| BTU/(hr sqft) | 7.5 | | |
| Water flow @ 10.0 F rise | N/A | | |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|-----------------|------------------------|-----------------------|
| Max coil load | 10.4 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 394 CFM | BTU/(hr sqft) | 10.8 |
| Max coil CFM | 394 CFM | Ent. DB / Lvg DB | 65.0 / 89.3 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|---------------------|-----------------|
| Design CFM | 394 CFM | Fan motor BHP | 0.00 BHP |
| Design CFM/sqft | 0.41 CFM/sqft | Fan motor kW | 0.00 kW |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 50 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.05 CFM/sqft | | |

Zone Sizing Summary for 04 3E 301 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | |
|--|--|
| Air System Name 04 3E 301 CPT | Number of zones 1 |
| Equipment Class SPLT AHU | Floor Area 955.8 sqft |
| Air System Type SZCAV | Location Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | |
|--|---|
| Calculation Months Jan to Dec | Zone CFM Sizing Sum of space airflow rates |
| 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) |
|-----------|-----------------------------|------------------------------|---------------|----------------------------|--------------------------------|-----------------------------------|----------------------------------|------------------------------|
| 3E 301 | 394 | 394 | 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) |
|-----------|-----------------------------|------------------------------------|-------------------------|------------------------|
| 3E 301 | 7.2 | September 10:00 | 7.6 | 955.8 |

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 |
|------------------------|------------------------|----------------------------|----------------|--------------------|-------------------|----------------|
| 3E 301 | | | | | | |
| 3E 301 | 7.2 | September 10:00 | 394 | 7.6 | 955.8 | 0.41 |

Air System Heat Balance Summary for 04 3E 301 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - AUGUST 10:00 | | | DESIGN HEATING | | |
|------------------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | OA DB / WB 76.7 F / 67.2 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 | - | 6550 | 184 | - | 8223 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 394 CFM | 0 | - | 394 CFM | 0 | - |
| Ventilation Load | 50 CFM | 44 | 294 | 50 CFM | 2136 | 0 |
| Supply Fan Load | 394 CFM | 0 | - | 394 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 6594 | 477 | - | 10359 | 0 |
| Central Cooling Coil | - | 6597 | 606 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 10365 | - |
| >> Total Conditioning | - | 6597 | 606 | - | 10365 | 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 76.7 F / 67.2 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 | 191 sqft | 291 | - | 191 sqft | 495 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 50 sqft | 475 | - | 50 sqft | 531 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 42 sqft | 397 | - | 42 sqft | 447 | - |
| Floor Convection | 956 sqft | 2224 | - | 956 sqft | 628 | - |
| Interior Wall Convection | 735 sqft | 878 | - | 735 sqft | 324 | - |
| Ceiling Convection | 956 sqft | 1826 | - | 956 sqft | 875 | - |
| 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 | 28 CFM | 3304 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 914 | 0 | 15% | 990 | 0 |
| >> Total Zone Loads | - | 7006 | 0 | - | 7593 | 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 3E 301 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 76.9 | 0.01209 | 50 | 400 | 44 | 294 |
| Air-to-Air Energy Recovery | Outlet | 75.8 | 0.01209 | 50 | 400 | 58 | 0 |
| Vent - Return Mixing | Outlet | 75.1 | 0.01101 | 394 | 400 | - | - |
| Central Cooling Coil | Outlet | 59.9 | 0.01070 | 394 | 400 | 6597 | 606 |
| Central Heating Coil | Outlet | 59.9 | 0.01070 | 394 | 400 | 0 | - |
| Supply Fan | Outlet | 59.9 | 0.01070 | 394 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 59.9 | 0.01070 | 394 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01080 | 394 | 400 | 6550 | 184 |
| Return Air | Outlet | 75.0 | 0.01085 | 394 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | 6548 | Cooling | 6550 | 75.0 | 394 | 400 | 0 | 0 |

System Psychrometrics for 04 3E 301 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 50 | 400 | -2136 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 50 | 400 | -2726 | 0 |
| Vent - Return Mixing | Outlet | 65.0 | 0.00026 | 394 | 400 | - | - |
| Central Cooling Coil | Outlet | 65.0 | 0.00026 | 394 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 89.3 | 0.00026 | 394 | 400 | 10365 | - |
| Supply Fan | Outlet | 89.3 | 0.00026 | 394 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 89.3 | 0.00026 | 394 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 394 | 400 | -8223 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 394 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | -8223 | Heating | -8223 | 70.0 | 394 | 400 | 0 | 0 |

Air System Sizing Summary for 06 3E 302 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | | | |
|-----------------------|----------------------|-----------------------|---|
| Air System Name | 06 3E 302 CPT | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 698.5 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Cooling Coil Sizing Data

| | | | |
|--------------------------------|-----------------|--------------------------------------|----------------------|
| Total coil load | 0.4 Tons | Peak coil load occurs at | August 10:00 |
| Total coil load | 5.3 MBH | OA DB / WB | 76.7 / 67.2 F |
| Sensible coil load | 4.8 MBH | Entering DB / WB | 75.1 / 65.3 F |
| Coil CFM at peak load | 290 CFM | Leaving DB / WB | 60.1 / 59.6 F |
| Sum of peak zone CFM | 290 CFM | Resulting RH | 59 % |
| Sensible heat ratio | 0.907 | Design supply temp. | 58.0 F |
| CFM/Ton | 655.7 | Zone T-stat Check | 1 of 1 OK |
| sqft/Ton | 1581.5 | Max zone temperature deviation | 0.0 F |
| BTU/(hr sqft) | 7.6 | | |
| Water flow @ 10.0 F rise | N/A | | |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|----------------|------------------------|-----------------------|
| Max coil load | 8.2 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 290 CFM | BTU/(hr sqft) | 11.7 |
| Max coil CFM | 290 CFM | Ent. DB / Lvg DB | 63.2 / 89.2 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|---------------------|-----------------|
| Design CFM | 290 CFM | Fan motor BHP | 0.00 BHP |
| Design CFM/sqft | 0.41 CFM/sqft | Fan motor kW | 0.00 kW |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 50 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.07 CFM/sqft | | |

Zone Sizing Summary for 06 3E 302 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | |
|--|--|
| Air System Name 06 3E 302 CPT | Number of zones 1 |
| Equipment Class SPLT AHU | Floor Area 698.5 sqft |
| Air System Type SZCAV | Location Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | |
|--|---|
| Calculation Months Jan to Dec | Zone CFM Sizing Sum of space airflow rates |
| 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) |
|-----------|-----------------------------|------------------------------|---------------|----------------------------|--------------------------------|-----------------------------------|----------------------------------|------------------------------|
| 3E 302 | 290 | 290 | 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) |
|-----------|-----------------------------|------------------------------------|-------------------------|------------------------|
| 3E 302 | 5.3 | September 10:00 | 5.6 | 698.5 |

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 302 | | | | | | |
| 3E 302 | 5.3 | September 10:00 | 290 | 5.6 | 698.5 | 0.41 |

Air System Heat Balance Summary for 06 3E 302 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - AUGUST 10:00 | | | DESIGN HEATING | | |
|-------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 76.7 F / 67.2 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Zone Conditioning | - | 4758 | 124 | - | 6026 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 290 CFM | 0 | - | 290 CFM | 0 | - |
| Ventilation Load | 50 CFM | 44 | 280 | 50 CFM | 2136 | 0 |
| Supply Fan Load | 290 CFM | 0 | - | 290 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 4803 | 404 | - | 8162 | 0 |
| Central Cooling Coil | - | 4806 | 494 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 8168 | - |
| >> Total Conditioning | - | 4806 | 494 | - | 8168 | 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 | | |
|-------------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 76.7 F / 67.2 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Exterior Wall Convection | 140 sqft | 208 | - | 140 sqft | 361 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 25 sqft | 237 | - | 25 sqft | 265 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 42 sqft | 395 | - | 42 sqft | 446 | - |
| Floor Convection | 698 sqft | 1583 | - | 698 sqft | 446 | - |
| Interior Wall Convection | 659 sqft | 740 | - | 659 sqft | 286 | - |
| Ceiling Convection | 698 sqft | 1283 | - | 698 sqft | 625 | - |
| 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 | 2415 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 667 | 0 | 15% | 727 | 0 |
| >> Total Zone Loads | - | 5113 | 0 | - | 5570 | 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 3E 302 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 76.9 | 0.01209 | 50 | 400 | 44 | 280 |
| Air-to-Air Energy Recovery | Outlet | 75.8 | 0.01209 | 50 | 400 | 58 | 0 |
| Vent - Return Mixing | Outlet | 75.1 | 0.01112 | 290 | 400 | - | - |
| Central Cooling Coil | Outlet | 60.1 | 0.01077 | 290 | 400 | 4806 | 494 |
| Central Heating Coil | Outlet | 60.1 | 0.01077 | 290 | 400 | 0 | - |
| Supply Fan | Outlet | 60.1 | 0.01077 | 290 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 60.1 | 0.01077 | 290 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01086 | 290 | 400 | 4758 | 124 |
| Return Air | Outlet | 75.0 | 0.01091 | 290 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 302 | 4757 | Cooling | 4758 | 75.0 | 290 | 400 | 0 | 0 |

System Psychrometrics for 06 3E 302 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 50 | 400 | -2136 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 50 | 400 | -2726 | 0 |
| Vent - Return Mixing | Outlet | 63.2 | 0.00026 | 290 | 400 | - | - |
| Central Cooling Coil | Outlet | 63.2 | 0.00026 | 290 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 89.2 | 0.00026 | 290 | 400 | 8168 | - |
| Supply Fan | Outlet | 89.2 | 0.00026 | 290 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 89.2 | 0.00026 | 290 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 290 | 400 | -6026 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 290 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 302 | -6026 | Heating | -6026 | 70.0 | 290 | 400 | 0 | 0 |

Air System Sizing Summary for 08 3E 303 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | | | |
|-----------------------|----------------------|-----------------------|---|
| Air System Name | 08 3E 303 CPT | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 925.3 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Cooling Coil Sizing Data

| | | | |
|--------------------------------|-----------------|--------------------------------------|----------------------|
| Total coil load | 0.6 Tons | Peak coil load occurs at | August 10:00 |
| Total coil load | 7.1 MBH | OA DB / WB | 76.7 / 67.2 F |
| Sensible coil load | 6.5 MBH | Entering DB / WB | 75.1 / 65.3 F |
| Coil CFM at peak load | 393 CFM | Leaving DB / WB | 60.1 / 59.6 F |
| Sum of peak zone CFM | 393 CFM | Resulting RH | 59 % |
| Sensible heat ratio | 0.918 | Design supply temp. | 58.0 F |
| CFM/Ton | 665.8 | Zone T-stat Check | 1 of 1 OK |
| sqft/Ton | 1567.5 | Max zone temperature deviation | 0.0 F |
| BTU/(hr sqft) | 7.7 | | |
| Water flow @ 10.0 F rise | N/A | | |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|-----------------|------------------------|-----------------------|
| Max coil load | 10.2 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 393 CFM | BTU/(hr sqft) | 11.0 |
| Max coil CFM | 393 CFM | Ent. DB / Lvg DB | 65.0 / 88.9 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|---------------------|-----------------|
| Design CFM | 393 CFM | Fan motor BHP | 0.00 BHP |
| Design CFM/sqft | 0.42 CFM/sqft | Fan motor kW | 0.00 kW |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 50 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.05 CFM/sqft | | |

Zone Sizing Summary for 08 3E 303 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

Air System Name **08 3E 303 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **925.3** sqft
 Location **Quebec City Beauport, QC, Canada**

Sizing Calculation 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 303 | 393 | 393 | 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) |
|-----------|-----------------------------|------------------------------------|-------------------------|------------------------|
| 3E 303 | 7.2 | September 10:00 | 7.4 | 925.3 |

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 |
|------------------------|------------------------|----------------------------|----------------|--------------------|-------------------|----------------|
| 3E 303 | | | | | | |
| 3E 303 | 7.2 | September 10:00 | 393 | 7.4 | 925.3 | 0.42 |

Air System Heat Balance Summary for 08 3E 303 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - AUGUST 10:00 | | | DESIGN HEATING | | |
|-------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | OA DB / WB 76.7 F / 67.2 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 | - | 6455 | 175 | - | 8038 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 393 CFM | 0 | - | 393 CFM | 0 | - |
| Ventilation Load | 50 CFM | 44 | 281 | 50 CFM | 2136 | 0 |
| Supply Fan Load | 393 CFM | 0 | - | 393 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 6499 | 456 | - | 10173 | 0 |
| Central Cooling Coil | - | 6502 | 581 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 10179 | - |
| >> Total Conditioning | - | 6502 | 581 | - | 10179 | 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 76.7 F / 67.2 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 | 182 sqft | 281 | - | 182 sqft | 473 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 50 sqft | 476 | - | 50 sqft | 530 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 42 sqft | 399 | - | 42 sqft | 447 | - |
| Floor Convection | 925 sqft | 2211 | - | 925 sqft | 618 | - |
| Interior Wall Convection | 726 sqft | 848 | - | 726 sqft | 328 | - |
| Ceiling Convection | 925 sqft | 1802 | - | 925 sqft | 858 | - |
| 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 | 27 CFM | 3199 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 903 | 0 | 15% | 968 | 0 |
| >> Total Zone Loads | - | 6919 | 0 | - | 7420 | 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 3E 303 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 76.9 | 0.01209 | 50 | 400 | 44 | 281 |
| Air-to-Air Energy Recovery | Outlet | 75.8 | 0.01209 | 50 | 400 | 58 | 0 |
| Vent - Return Mixing | Outlet | 75.1 | 0.01106 | 393 | 400 | - | - |
| Central Cooling Coil | Outlet | 60.1 | 0.01076 | 393 | 400 | 6502 | 581 |
| Central Heating Coil | Outlet | 60.1 | 0.01076 | 393 | 400 | 0 | - |
| Supply Fan | Outlet | 60.1 | 0.01076 | 393 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 60.1 | 0.01076 | 393 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01085 | 393 | 400 | 6455 | 175 |
| Return Air | Outlet | 75.0 | 0.01091 | 393 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 303 | 6453 | Cooling | 6455 | 75.0 | 393 | 400 | 0 | 0 |

System Psychrometrics for 08 3E 303 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 50 | 400 | -2136 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 50 | 400 | -2726 | 0 |
| Vent - Return Mixing | Outlet | 65.0 | 0.00026 | 393 | 400 | - | - |
| Central Cooling Coil | Outlet | 65.0 | 0.00026 | 393 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 88.9 | 0.00026 | 393 | 400 | 10179 | - |
| Supply Fan | Outlet | 88.9 | 0.00026 | 393 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 88.9 | 0.00026 | 393 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 393 | 400 | -8038 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 393 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 303 | -8038 | Heating | -8038 | 70.0 | 393 | 400 | 0 | 0 |

Air System Sizing Summary for 10 3E 304 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | | | |
|-----------------------|----------------------|-----------------------|---|
| Air System Name | 10 3E 304 CPT | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 971.0 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Cooling Coil Sizing Data

| | | | |
|--------------------------------|-----------------|--------------------------------------|------------------------|
| Total coil load | 0.8 Tons | Peak coil load occurs at | September 12:00 |
| Total coil load | 9.1 MBH | OA DB / WB | 76.0 / 65.8 F |
| Sensible coil load | 8.7 MBH | Entering DB / WB | 75.0 / 64.8 F |
| Coil CFM at peak load | 515 CFM | Leaving DB / WB | 59.8 / 59.2 F |
| Sum of peak zone CFM | 515 CFM | Resulting RH | 58 % |
| Sensible heat ratio | 0.954 | Design supply temp. | 58.0 F |
| CFM/Ton | 681.1 | Zone T-stat Check | 1 of 1 OK |
| sqft/Ton | 1283.7 | Max zone temperature deviation | 0.0 F |
| BTU/(hr sqft) | 9.3 | | |
| Water flow @ 10.0 F rise | N/A | | |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|-----------------|------------------------|-----------------------|
| Max coil load | 16.3 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 515 CFM | BTU/(hr sqft) | 16.8 |
| Max coil CFM | 515 CFM | Ent. DB / Lvg DB | 66.2 / 95.4 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|---------------------|-----------------|
| Design CFM | 515 CFM | Fan motor BHP | 0.00 BHP |
| Design CFM/sqft | 0.53 CFM/sqft | Fan motor kW | 0.00 kW |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 50 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.05 CFM/sqft | | |

Zone Sizing Summary for 10 3E 304 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

Air System Name **10 3E 304 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **971.0** sqft
 Location **Quebec City Beauport, QC, Canada**

Sizing Calculation 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 304 | 515 | 515 | 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) |
|-----------|-----------------------------|------------------------------------|-------------------------|------------------------|
| 3E 304 | 9.2 | September 13:00 | 13.9 | 971.0 |

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 304 | | | | | | |
| 3E 304 | 9.2 | September 13:00 | 515 | 13.9 | 971.0 | 0.53 |

Air System Heat Balance Summary for 10 3E 304 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - SEPTEMBER 12:00 | | | DESIGN HEATING | | |
|-------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 76.0 F / 65.8 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Zone Conditioning | - | 8634 | 165 | - | 14166 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 515 CFM | 0 | - | 515 CFM | 0 | - |
| Ventilation Load | 50 CFM | 26 | 119 | 50 CFM | 2136 | 0 |
| Supply Fan Load | 515 CFM | 0 | - | 515 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 8661 | 284 | - | 16302 | 0 |
| Central Cooling Coil | - | 8662 | 415 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 16308 | - |
| >> Total Conditioning | - | 8662 | 415 | - | 16308 | 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 12:00 | | | DESIGN HEATING | | |
|-------------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 76.0 F / 65.8 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Exterior Wall Convection | 377 sqft | 810 | - | 377 sqft | 1167 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 120 sqft | 998 | - | 120 sqft | 1330 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 42 sqft | 384 | - | 42 sqft | 461 | - |
| Floor Convection | 971 sqft | 2171 | - | 971 sqft | 1099 | - |
| Interior Wall Convection | 539 sqft | 954 | - | 539 sqft | 390 | - |
| Ceiling Convection | 971 sqft | 2640 | - | 971 sqft | 1345 | - |
| 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 | 54 CFM | 6288 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 1193 | 0 | 15% | 1812 | 0 |
| >> Total Zone Loads | - | 9150 | 0 | - | 13893 | 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 3E 304 CPT
(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:47 AM

DESIGN COOLING DAY AT SEPTEMBER 12:00

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 | 76.1 | 0.01122 | 50 | 400 | 26 | 119 |
| Air-to-Air Energy Recovery | Outlet | 75.5 | 0.01122 | 50 | 400 | 34 | 0 |
| Vent - Return Mixing | Outlet | 75.0 | 0.01077 | 515 | 400 | - | - |
| Central Cooling Coil | Outlet | 59.8 | 0.01061 | 515 | 400 | 8662 | 415 |
| Central Heating Coil | Outlet | 59.8 | 0.01061 | 515 | 400 | 0 | - |
| Supply Fan | Outlet | 59.8 | 0.01061 | 515 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 59.8 | 0.01061 | 515 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01067 | 515 | 400 | 8634 | 165 |
| Return Air | Outlet | 75.0 | 0.01072 | 515 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)
Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)
Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 304 | 8633 | Cooling | 8634 | 75.0 | 515 | 400 | 0 | 0 |

System Psychrometrics for 10 3E 304 CPT
(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:47 AM

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 | 50 | 400 | -2136 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 50 | 400 | -2726 | 0 |
| Vent - Return Mixing | Outlet | 66.2 | 0.00026 | 515 | 400 | - | - |
| Central Cooling Coil | Outlet | 66.2 | 0.00026 | 515 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 95.4 | 0.00026 | 515 | 400 | 16308 | - |
| Supply Fan | Outlet | 95.4 | 0.00026 | 515 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 95.4 | 0.00026 | 515 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 515 | 400 | -14166 | 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 = 1.079 BTU/(hr-CFM-F)
Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)
 Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 304 | -14166 | Heating | -14166 | 70.0 | 515 | 400 | 0 | 0 |

Air System Sizing Summary for 12 3E 305 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | | | |
|-----------------------|----------------------|-----------------------|---|
| Air System Name | 12 3E 305 CPT | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 989.6 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Cooling Coil Sizing Data

| | | | |
|--------------------------------|-----------------|--------------------------------------|----------------------|
| Total coil load | 0.8 Tons | Peak coil load occurs at | July 17:00 |
| Total coil load | 10.1 MBH | OA DB / WB | 84.9 / 69.7 F |
| Sensible coil load | 9.5 MBH | Entering DB / WB | 75.4 / 65.0 F |
| Coil CFM at peak load | 540 CFM | Leaving DB / WB | 59.5 / 59.0 F |
| Sum of peak zone CFM | 540 CFM | Resulting RH | 57 % |
| Sensible heat ratio | 0.938 | Design supply temp. | 58.0 F |
| CFM/Ton | 640.4 | Zone T-stat Check | 1 of 1 OK |
| sqft/Ton | 1173.5 | Max zone temperature deviation | 0.0 F |
| BTU/(hr sqft) | 10.2 | | |
| Water flow @ 10.0 F rise | N/A | | |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|-----------------|------------------------|-----------------------|
| Max coil load | 16.4 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 540 CFM | BTU/(hr sqft) | 16.6 |
| Max coil CFM | 540 CFM | Ent. DB / Lvg DB | 66.3 / 94.5 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|---------------------|-----------------|
| Design CFM | 540 CFM | Fan motor BHP | 0.00 BHP |
| Design CFM/sqft | 0.55 CFM/sqft | Fan motor kW | 0.00 kW |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 50 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.05 CFM/sqft | | |

Zone Sizing Summary for 12 3E 305 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

Air System Name **12 3E 305 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **989.6** sqft
 Location **Quebec City Beauport, QC, Canada**

Sizing Calculation 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 305 | 540 | 540 | 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) |
|-----------|-----------------------------|------------------------------------|-------------------------|------------------------|
| 3E 305 | 9.9 | July 17:00 | 14.0 | 989.6 |

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 305 | | | | | | |
| 3E 305 | 9.9 | July 17:00 | 540 | 14.0 | 989.6 | 0.55 |

Air System Heat Balance Summary for 12 3E 305 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - JULY 17:00 | | | DESIGN HEATING | | |
|------------------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 84.9 F / 69.7 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Zone Conditioning | - | 9251 | 143 | - | 14308 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 540 CFM | 0 | - | 540 CFM | 0 | - |
| Ventilation Load | 50 CFM | 231 | 346 | 50 CFM | 2136 | 0 |
| Supply Fan Load | 540 CFM | 0 | - | 540 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 9482 | 489 | - | 16444 | 0 |
| Central Cooling Coil | - | 9491 | 628 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 16450 | - |
| >> Total Conditioning | - | 9491 | 628 | - | 16450 | 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 | | |
|----------------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 84.9 F / 69.7 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Exterior Wall Convection | 378 sqft | 985 | - | 378 sqft | 1168 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 120 sqft | 1078 | - | 120 sqft | 1335 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 42 sqft | 353 | - | 42 sqft | 472 | - |
| Floor Convection | 990 sqft | 2239 | - | 990 sqft | 1106 | - |
| Interior Wall Convection | 599 sqft | 1087 | - | 599 sqft | 419 | - |
| Ceiling Convection | 990 sqft | 2869 | - | 990 sqft | 1353 | - |
| 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 | 54 CFM | 6309 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 1292 | 0 | 15% | 1824 | 0 |
| >> Total Zone Loads | - | 9903 | 0 | - | 13985 | 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 3E 305 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 84.8 | 0.01211 | 50 | 400 | 231 | 346 |
| Air-to-Air Energy Recovery | Outlet | 79.3 | 0.01211 | 50 | 400 | 301 | 0 |
| Vent - Return Mixing | Outlet | 75.4 | 0.01079 | 540 | 400 | - | - |
| Central Cooling Coil | Outlet | 59.5 | 0.01055 | 540 | 400 | 9491 | 628 |
| Central Heating Coil | Outlet | 59.5 | 0.01055 | 540 | 400 | 0 | - |
| Supply Fan | Outlet | 59.5 | 0.01055 | 540 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 59.5 | 0.01055 | 540 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01061 | 540 | 400 | 9251 | 143 |
| Return Air | Outlet | 75.0 | 0.01065 | 540 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 305 | 9249 | Cooling | 9251 | 75.0 | 540 | 400 | 0 | 0 |

System Psychrometrics for 12 3E 305 CPT (In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
Prepared by: Groupe CMI

02/23/2026
11:47 AM

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 | 50 | 400 | -2136 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 50 | 400 | -2726 | 0 |
| Vent - Return Mixing | Outlet | 66.3 | 0.00026 | 540 | 400 | - | - |
| Central Cooling Coil | Outlet | 66.3 | 0.00026 | 540 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 94.5 | 0.00026 | 540 | 400 | 16450 | - |
| Supply Fan | Outlet | 94.5 | 0.00026 | 540 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 94.5 | 0.00026 | 540 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 540 | 400 | -14308 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 540 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 305 | -14308 | Heating | -14308 | 70.0 | 540 | 400 | 0 | 0 |

Air System Sizing Summary for 14 3E 306 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | | | |
|-----------------------|----------------------|-----------------------|---|
| Air System Name | 14 3E 306 CPT | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 688.9 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Cooling Coil Sizing Data

| | | | |
|--------------------------------|-----------------|--------------------------------------|----------------------|
| Total coil load | 0.3 Tons | Peak coil load occurs at | July 17:00 |
| Total coil load | 4.0 MBH | OA DB / WB | 84.9 / 69.7 F |
| Sensible coil load | 3.5 MBH | Entering DB / WB | 76.0 / 66.6 F |
| Coil CFM at peak load | 215 CFM | Leaving DB / WB | 61.4 / 60.9 F |
| Sum of peak zone CFM | 215 CFM | Resulting RH | 63 % |
| Sensible heat ratio | 0.869 | Design supply temp. | 58.0 F |
| CFM/Ton | 647.2 | Zone T-stat Check | 1 of 1 OK |
| sqft/Ton | 2077.5 | Max zone temperature deviation | 0.0 F |
| BTU/(hr sqft) | 5.8 | | |
| Water flow @ 10.0 F rise | N/A | | |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|----------------|------------------------|-----------------------|
| Max coil load | 8.0 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 215 CFM | BTU/(hr sqft) | 11.7 |
| Max coil CFM | 215 CFM | Ent. DB / Lvg DB | 60.8 / 95.4 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|---------------------|-----------------|
| Design CFM | 215 CFM | Fan motor BHP | 0.00 BHP |
| Design CFM/sqft | 0.31 CFM/sqft | Fan motor kW | 0.00 kW |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 50 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.07 CFM/sqft | | |

Zone Sizing Summary for 14 3E 306 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

Air System Name **14 3E 306 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **688.9** sqft
 Location **Quebec City Beauport, QC, Canada**

Sizing Calculation 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 306 | 215 | 215 | 0.31 | 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 306 | 3.9 | June 18:00 | 5.5 | 688.9 |

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 306 | | | | | | |
| 3E 306 | 3.9 | June 18:00 | 215 | 5.5 | 688.9 | 0.31 |

Air System Heat Balance Summary for 14 3E 306 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - JULY 17:00 | | | DESIGN HEATING | | |
|-------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | OA DB / WB 84.9 F / 69.7 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 | - | 3219 | 300 | - | 5898 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 215 CFM | 0 | - | 215 CFM | 0 | - |
| Ventilation Load | 50 CFM | 231 | 89 | 50 CFM | 2136 | 0 |
| Supply Fan Load | 215 CFM | 0 | - | 215 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 3451 | 389 | - | 8034 | 0 |
| Central Cooling Coil | - | 3457 | 522 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 8040 | - |
| >> Total Conditioning | - | 3457 | 522 | - | 8040 | 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 84.9 F / 69.7 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 | 137 sqft | 158 | - | 137 sqft | 354 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 25 sqft | 169 | - | 25 sqft | 272 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 42 sqft | 278 | - | 42 sqft | 457 | - |
| Floor Convection | 689 sqft | 928 | - | 689 sqft | 448 | - |
| Interior Wall Convection | 656 sqft | 556 | - | 656 sqft | 285 | - |
| Ceiling Convection | 689 sqft | 912 | - | 689 sqft | 624 | - |
| 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 | 2382 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 450 | 0 | 15% | 723 | 0 |
| >> Total Zone Loads | - | 3452 | 0 | - | 5545 | 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 3E 306 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 84.8 | 0.01211 | 50 | 400 | 231 | 89 |
| Air-to-Air Energy Recovery | Outlet | 79.3 | 0.01211 | 50 | 400 | 302 | 0 |
| Vent - Return Mixing | Outlet | 76.0 | 0.01183 | 215 | 400 | - | - |
| Central Cooling Coil | Outlet | 61.4 | 0.01133 | 215 | 400 | 3457 | 522 |
| Central Heating Coil | Outlet | 61.4 | 0.01133 | 215 | 400 | 0 | - |
| Supply Fan | Outlet | 61.4 | 0.01133 | 215 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 61.4 | 0.01133 | 215 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01163 | 215 | 400 | 3219 | 300 |
| Return Air | Outlet | 75.0 | 0.01174 | 215 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 306 | 3218 | Cooling | 3219 | 75.0 | 215 | 400 | 0 | 0 |

System Psychrometrics for 14 3E 306 CPT
(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:47 AM

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 | 50 | 400 | -2136 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 50 | 400 | -2726 | 0 |
| Vent - Return Mixing | Outlet | 60.8 | 0.00026 | 215 | 400 | - | - |
| Central Cooling Coil | Outlet | 60.8 | 0.00026 | 215 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 95.4 | 0.00026 | 215 | 400 | 8040 | - |
| Supply Fan | Outlet | 95.4 | 0.00026 | 215 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 95.4 | 0.00026 | 215 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 215 | 400 | -5898 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 215 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)
Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)
 Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 306 | -5898 | Heating | -5898 | 70.0 | 215 | 400 | 0 | 0 |

Air System Sizing Summary for 16 3E 307 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | | | |
|-----------------------|----------------------|-----------------------|---|
| Air System Name | 16 3E 307 CPT | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 954.1 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Cooling Coil Sizing Data

| | | | |
|--------------------------------|-----------------|--------------------------------------|----------------------|
| Total coil load | 0.4 Tons | Peak coil load occurs at | July 17:00 |
| Total coil load | 5.2 MBH | OA DB / WB | 84.9 / 69.7 F |
| Sensible coil load | 4.5 MBH | Entering DB / WB | 75.8 / 66.5 F |
| Coil CFM at peak load | 285 CFM | Leaving DB / WB | 61.3 / 60.9 F |
| Sum of peak zone CFM | 285 CFM | Resulting RH | 63 % |
| Sensible heat ratio | 0.868 | Design supply temp. | 58.0 F |
| CFM/Ton | 653.8 | Zone T-stat Check | 1 of 1 OK |
| sqft/Ton | 2189.8 | Max zone temperature deviation | 0.0 F |
| BTU/(hr sqft) | 5.5 | | |
| Water flow @ 10.0 F rise | N/A | | |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|-----------------|------------------------|-----------------------|
| Max coil load | 10.2 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 285 CFM | BTU/(hr sqft) | 10.7 |
| Max coil CFM | 285 CFM | Ent. DB / Lvg DB | 63.0 / 96.3 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|---------------------|-----------------|
| Design CFM | 285 CFM | Fan motor BHP | 0.00 BHP |
| Design CFM/sqft | 0.30 CFM/sqft | Fan motor kW | 0.00 kW |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 50 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.05 CFM/sqft | | |

Zone Sizing Summary for 16 3E 307 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

Air System Name **16 3E 307 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **954.1** sqft
 Location **Quebec City Beauport, QC, Canada**

Sizing Calculation 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 307 | 285 | 285 | 0.30 | 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 307 | 5.2 | June 18:00 | 7.6 | 954.1 |

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 307 | | | | | | |
| 3E 307 | 5.2 | June 18:00 | 285 | 7.6 | 954.1 | 0.30 |

Air System Heat Balance Summary for 16 3E 307 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - JULY 17:00 | | | DESIGN HEATING | | |
|-------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | OA DB / WB 84.9 F / 69.7 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 | - | 4301 | 417 | - | 8101 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 285 CFM | 0 | - | 285 CFM | 0 | - |
| Ventilation Load | 50 CFM | 231 | 94 | 50 CFM | 2136 | 0 |
| Supply Fan Load | 285 CFM | 0 | - | 285 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 4533 | 512 | - | 10237 | 0 |
| Central Cooling Coil | - | 4539 | 689 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 10243 | - |
| >> Total Conditioning | - | 4539 | 689 | - | 10243 | 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 84.9 F / 69.7 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 | 190 sqft | 221 | - | 190 sqft | 494 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 50 sqft | 337 | - | 50 sqft | 545 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 42 sqft | 275 | - | 42 sqft | 457 | - |
| Floor Convection | 954 sqft | 1344 | - | 954 sqft | 636 | - |
| Interior Wall Convection | 735 sqft | 577 | - | 735 sqft | 331 | - |
| Ceiling Convection | 954 sqft | 1264 | - | 954 sqft | 884 | - |
| 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 | 28 CFM | 3293 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 603 | 0 | 15% | 996 | 0 |
| >> Total Zone Loads | - | 4620 | 0 | - | 7635 | 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 3E 307 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 84.8 | 0.01211 | 50 | 400 | 231 | 94 |
| Air-to-Air Energy Recovery | Outlet | 79.3 | 0.01211 | 50 | 400 | 302 | 0 |
| Vent - Return Mixing | Outlet | 75.8 | 0.01179 | 285 | 400 | - | - |
| Central Cooling Coil | Outlet | 61.3 | 0.01129 | 285 | 400 | 4539 | 689 |
| Central Heating Coil | Outlet | 61.3 | 0.01129 | 285 | 400 | 0 | - |
| Supply Fan | Outlet | 61.3 | 0.01129 | 285 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 61.3 | 0.01129 | 285 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01160 | 285 | 400 | 4301 | 417 |
| Return Air | Outlet | 75.0 | 0.01172 | 285 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 307 | 4299 | Cooling | 4301 | 75.0 | 285 | 400 | 0 | 0 |

System Psychrometrics for 16 3E 307 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 50 | 400 | -2136 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 50 | 400 | -2726 | 0 |
| Vent - Return Mixing | Outlet | 63.0 | 0.00026 | 285 | 400 | - | - |
| Central Cooling Coil | Outlet | 63.0 | 0.00026 | 285 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 96.3 | 0.00026 | 285 | 400 | 10243 | - |
| Supply Fan | Outlet | 96.3 | 0.00026 | 285 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 96.3 | 0.00026 | 285 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 285 | 400 | -8101 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 285 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 307 | -8101 | Heating | -8101 | 70.0 | 285 | 400 | 0 | 0 |

Air System Sizing Summary for 18 3E 308 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | | | |
|-----------------|---------------|-----------------|----------------------------------|
| Air System Name | 18 3E 308 CPT | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 930.2 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------|------------|------------------|-----------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Cooling Coil Sizing Data

| | | | |
|--------------------------|----------|--------------------------------|---------------|
| Total coil load | 0.4 Tons | Peak coil load occurs at | July 17:00 |
| Total coil load | 5.0 MBH | OA DB / WB | 84.9 / 69.7 F |
| Sensible coil load | 5.0 MBH | Entering DB / WB | 75.5 / 66.8 F |
| Coil CFM at peak load | 472 CFM | Leaving DB / WB | 65.8 / 63.6 F |
| Sum of peak zone CFM | 472 CFM | Resulting RH | 65 % |
| Sensible heat ratio | 1.000 | Design supply temp. | 58.0 F |
| CFM/Ton | 1122.3 | Zone T-stat Check | 1 of 1 OK |
| sqft/Ton | 2213.2 | Max zone temperature deviation | 0.0 F |
| BTU/(hr sqft) | 5.4 | | |
| Water flow @ 10.0 F rise | N/A | | |

Central Heating Coil Sizing Data

| | | | |
|----------------------------|----------|------------------|----------------|
| Max coil load | 15.3 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 472 CFM | BTU/(hr sqft) | 16.5 |
| Max coil CFM | 472 CFM | Ent. DB / Lvg DB | 65.8 / 95.9 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------|---------------|---------------|----------|
| Design CFM | 472 CFM | Fan motor BHP | 0.00 BHP |
| Design CFM/sqft | 0.51 CFM/sqft | Fan motor kW | 0.00 kW |

Outdoor Ventilation Air Data

| | | | |
|--------------------|---------------|------------|-----------------|
| Design airflow CFM | 50 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.05 CFM/sqft | | |

Zone Sizing Summary for 18 3E 308 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

Air System Name **18 3E 308 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **930.2** sqft
 Location **Quebec City Beauport, QC, Canada**

Sizing Calculation 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 308 | 472 | 472 | 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 308 | 5.1 | June 18:00 | 12.7 | 930.2 |

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 308 | | | | | | |
| 3E 308 | 5.1 | June 18:00 | 472 | 12.7 | 930.2 | 0.51 |

Air System Heat Balance Summary for 18 3E 308 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - JULY 17:00 | | | DESIGN HEATING | | |
|------------------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | OA DB / WB 84.9 F / 69.7 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 | - | 4806 | -1 | - | 13192 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 472 CFM | 0 | - | 472 CFM | 0 | - |
| Ventilation Load | 50 CFM | 231 | 2 | 50 CFM | 2136 | 0 |
| Supply Fan Load | 472 CFM | 0 | - | 472 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 5038 | 1 | - | 15328 | 0 |
| Central Cooling Coil | - | 5043 | 0 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 15334 | - |
| >> Total Conditioning | - | 5043 | 0 | - | 15334 | 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 84.9 F / 69.7 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 | 341 sqft | 439 | - | 341 sqft | 1048 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 105 sqft | 598 | - | 105 sqft | 1172 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 42 sqft | 98 | - | 42 sqft | 478 | - |
| Floor Convection | 930 sqft | 1337 | - | 930 sqft | 1039 | - |
| Interior Wall Convection | 515 sqft | 418 | - | 515 sqft | 355 | - |
| Ceiling Convection | 930 sqft | 1345 | - | 930 sqft | 1268 | - |
| 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 | 49 CFM | 5701 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 635 | 0 | 15% | 1659 | 0 |
| >> Total Zone Loads | - | 4872 | 0 | - | 12720 | 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 3E 308 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 84.8 | 0.01211 | 50 | 400 | 231 | 2 |
| Air-to-Air Energy Recovery | Outlet | 79.3 | 0.01211 | 50 | 400 | 302 | 0 |
| Vent - Return Mixing | Outlet | 75.5 | 0.01211 | 472 | 400 | - | - |
| Central Cooling Coil | Outlet | 65.8 | 0.01211 | 472 | 400 | 5043 | 0 |
| Central Heating Coil | Outlet | 65.8 | 0.01211 | 472 | 400 | 0 | - |
| Supply Fan | Outlet | 65.8 | 0.01211 | 472 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 65.8 | 0.01211 | 472 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01211 | 472 | 400 | 4806 | -1 |
| Return Air | Outlet | 75.0 | 0.01211 | 472 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 308 | 4806 | Cooling | 4806 | 75.0 | 472 | 400 | 0 | 0 |

System Psychrometrics for 18 3E 308 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 50 | 400 | -2136 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 50 | 400 | -2726 | 0 |
| Vent - Return Mixing | Outlet | 65.8 | 0.00026 | 472 | 400 | - | - |
| Central Cooling Coil | Outlet | 65.8 | 0.00026 | 472 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 95.9 | 0.00026 | 472 | 400 | 15334 | - |
| Supply Fan | Outlet | 95.9 | 0.00026 | 472 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 95.9 | 0.00026 | 472 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 472 | 400 | -13192 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 472 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 308 | -13192 | Heating | -13192 | 70.0 | 472 | 400 | 0 | 0 |

Air System Sizing Summary for 20 4E 401 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | | | |
|-----------------------|----------------------|-----------------------|---|
| Air System Name | 20 4E 401 CPT | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 954.9 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Cooling Coil Sizing Data

| | | | |
|--------------------------------|-----------------|--------------------------------------|----------------------|
| Total coil load | 0.6 Tons | Peak coil load occurs at | August 10:00 |
| Total coil load | 7.4 MBH | OA DB / WB | 76.7 / 67.2 F |
| Sensible coil load | 6.6 MBH | Entering DB / WB | 75.1 / 65.3 F |
| Coil CFM at peak load | 392 CFM | Leaving DB / WB | 59.8 / 59.3 F |
| Sum of peak zone CFM | 392 CFM | Resulting RH | 59 % |
| Sensible heat ratio | 0.894 | Design supply temp. | 58.0 F |
| CFM/Ton | 635.0 | Zone T-stat Check | 1 of 1 OK |
| sqft/Ton | 1547.1 | Max zone temperature deviation | 0.0 F |
| BTU/(hr sqft) | 7.8 | | |
| Water flow @ 10.0 F rise | N/A | | |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|-----------------|------------------------|-----------------------|
| Max coil load | 12.8 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 392 CFM | BTU/(hr sqft) | 13.4 |
| Max coil CFM | 392 CFM | Ent. DB / Lvg DB | 64.9 / 95.2 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|---------------------|-----------------|
| Design CFM | 392 CFM | Fan motor BHP | 0.00 BHP |
| Design CFM/sqft | 0.41 CFM/sqft | Fan motor kW | 0.00 kW |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 50 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.05 CFM/sqft | | |

Zone Sizing Summary for 20 4E 401 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | |
|--|--|
| Air System Name 20 4E 401 CPT | Number of zones 1 |
| Equipment Class SPLT AHU | Floor Area 954.9 sqft |
| Air System Type SZCAV | Location Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | |
|--|---|
| Calculation Months Jan to Dec | Zone CFM Sizing Sum of space airflow rates |
| 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) |
|-----------|-----------------------------|------------------------------|---------------|----------------------------|--------------------------------|-----------------------------------|----------------------------------|------------------------------|
| 4E 401 | 392 | 392 | 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) |
|-----------|-----------------------------|------------------------------------|-------------------------|------------------------|
| 4E 401 | 7.1 | August 11:00 | 10.6 | 954.9 |

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 401 | | | | | | |
| 4E 401 | 7.1 | August 11:00 | 392 | 10.6 | 954.9 | 0.41 |

Air System Heat Balance Summary for 20 4E 401 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - AUGUST 10:00 | | | DESIGN HEATING | | |
|-------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | OA DB / WB 76.7 F / 67.2 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 | - | 6571 | 314 | - | 10683 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 392 CFM | 0 | - | 392 CFM | 0 | - |
| Ventilation Load | 50 CFM | 44 | 273 | 50 CFM | 2136 | 0 |
| Supply Fan Load | 392 CFM | 0 | - | 392 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 6615 | 587 | - | 12819 | 0 |
| Central Cooling Coil | - | 6618 | 788 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 12825 | - |
| >> Total Conditioning | - | 6618 | 788 | - | 12825 | 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 76.7 F / 67.2 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 | 188 sqft | 296 | - | 188 sqft | 541 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 50 sqft | 474 | - | 50 sqft | 529 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 42 sqft | 395 | - | 42 sqft | 445 | - |
| Floor Convection | 955 sqft | 2121 | - | 955 sqft | 913 | - |
| Interior Wall Convection | 728 sqft | 888 | - | 728 sqft | 432 | - |
| Ceiling Convection | 955 sqft | 1849 | - | 955 sqft | 3054 | - |
| 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 | 28 CFM | 3277 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 903 | 0 | 15% | 1379 | 0 |
| >> Total Zone Loads | - | 6927 | 0 | - | 10569 | 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 4E 401 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

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 | 76.9 | 0.01209 | 50 | 400 | 44 | 273 |
| Air-to-Air Energy Recovery | Outlet | 75.8 | 0.01209 | 50 | 400 | 58 | 0 |
| Vent - Return Mixing | Outlet | 75.1 | 0.01109 | 392 | 400 | - | - |
| Central Cooling Coil | Outlet | 59.8 | 0.01068 | 392 | 400 | 6618 | 788 |
| Central Heating Coil | Outlet | 59.8 | 0.01068 | 392 | 400 | 0 | - |
| Supply Fan | Outlet | 59.8 | 0.01068 | 392 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 59.8 | 0.01068 | 392 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01085 | 392 | 400 | 6571 | 314 |
| Return Air | Outlet | 75.0 | 0.01094 | 392 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | 6568 | Cooling | 6571 | 75.0 | 392 | 400 | 0 | 0 |

System Psychrometrics for 20 4E 401 CPT (In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
Prepared by: Groupe CMI

02/23/2026
11:47 AM

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 | 50 | 400 | -2136 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 50 | 400 | -2726 | 0 |
| Vent - Return Mixing | Outlet | 64.9 | 0.00026 | 392 | 400 | - | - |
| Central Cooling Coil | Outlet | 64.9 | 0.00026 | 392 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 95.2 | 0.00026 | 392 | 400 | 12825 | - |
| Supply Fan | Outlet | 95.2 | 0.00026 | 392 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 95.2 | 0.00026 | 392 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 392 | 400 | -10683 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 392 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | -10683 | Heating | -10683 | 70.0 | 392 | 400 | 0 | 0 |

Air System Sizing Summary for 22 4E 402 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

| | | | |
|-----------------------|----------------------|-----------------------|---|
| Air System Name | 22 4E 402 CPT | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 695.4 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Cooling Coil Sizing Data

| | | | |
|--------------------------------|-----------------|--------------------------------------|----------------------|
| Total coil load | 0.4 Tons | Peak coil load occurs at | August 10:00 |
| Total coil load | 5.4 MBH | OA DB / WB | 76.7 / 67.2 F |
| Sensible coil load | 4.8 MBH | Entering DB / WB | 75.1 / 65.5 F |
| Coil CFM at peak load | 287 CFM | Leaving DB / WB | 60.0 / 59.5 F |
| Sum of peak zone CFM | 287 CFM | Resulting RH | 59 % |
| Sensible heat ratio | 0.888 | Design supply temp. | 58.0 F |
| CFM/Ton | 638.5 | Zone T-stat Check | 1 of 1 OK |
| sqft/Ton | 1548.1 | Max zone temperature deviation | 0.0 F |
| BTU/(hr sqft) | 7.8 | | |
| Water flow @ 10.0 F rise | N/A | | |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|-----------------|------------------------|-----------------------|
| Max coil load | 10.0 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 287 CFM | BTU/(hr sqft) | 14.3 |
| Max coil CFM | 287 CFM | Ent. DB / Lvg DB | 63.1 / 95.2 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|---------------------|-----------------|
| Design CFM | 287 CFM | Fan motor BHP | 0.00 BHP |
| Design CFM/sqft | 0.41 CFM/sqft | Fan motor kW | 0.00 kW |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 50 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.07 CFM/sqft | | |

Zone Sizing Summary for 22 4E 402 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:47 AM

Air System Information

Air System Name **22 4E 402 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **695.4** sqft
 Location **Quebec City Beauport, QC, Canada**

Sizing Calculation 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 | 287 | 287 | 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) |
|-----------|-----------------------------|------------------------------------|-------------------------|------------------------|
| 4E 402 | 5.1 | August 11:00 | 7.7 | 695.4 |

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 402 | | | | | | |
| 4E 402 | 5.1 | August 11:00 | 287 | 7.7 | 695.4 | 0.41 |

Air System Heat Balance Summary for 22 4E 402 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - AUGUST 10:00 | | | DESIGN HEATING | | |
|-------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | OA DB / WB 76.7 F / 67.2 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 | - | 4737 | 210 | - | 7814 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 287 CFM | 0 | - | 287 CFM | 0 | - |
| Ventilation Load | 50 CFM | 44 | 258 | 50 CFM | 2136 | 0 |
| Supply Fan Load | 287 CFM | 0 | - | 287 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 4781 | 468 | - | 9950 | 0 |
| Central Cooling Coil | - | 4784 | 606 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 9956 | - |
| >> Total Conditioning | - | 4784 | 606 | - | 9956 | 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 76.7 F / 67.2 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 | 137 sqft | 202 | - | 137 sqft | 392 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 25 sqft | 235 | - | 25 sqft | 264 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 42 sqft | 393 | - | 42 sqft | 444 | - |
| Floor Convection | 695 sqft | 1565 | - | 695 sqft | 644 | - |
| Interior Wall Convection | 652 sqft | 726 | - | 652 sqft | 381 | - |
| Ceiling Convection | 696 sqft | 1243 | - | 696 sqft | 2211 | - |
| 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 | 2388 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 655 | 0 | 15% | 1009 | 0 |
| >> Total Zone Loads | - | 5019 | 0 | - | 7734 | 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 4E 402 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

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 | 76.9 | 0.01209 | 50 | 400 | 44 | 258 |
| Air-to-Air Energy Recovery | Outlet | 75.8 | 0.01209 | 50 | 400 | 58 | 0 |
| Vent - Return Mixing | Outlet | 75.1 | 0.01119 | 287 | 400 | - | - |
| Central Cooling Coil | Outlet | 60.0 | 0.01076 | 287 | 400 | 4784 | 606 |
| Central Heating Coil | Outlet | 60.0 | 0.01076 | 287 | 400 | 0 | - |
| Supply Fan | Outlet | 60.0 | 0.01076 | 287 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 60.0 | 0.01076 | 287 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01092 | 287 | 400 | 4737 | 210 |
| Return Air | Outlet | 75.0 | 0.01100 | 287 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | 4735 | Cooling | 4737 | 75.0 | 287 | 400 | 0 | 0 |

System Psychrometrics for 22 4E 402 CPT
(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:48 AM

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 | 50 | 400 | -2136 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 50 | 400 | -2726 | 0 |
| Vent - Return Mixing | Outlet | 63.1 | 0.00026 | 287 | 400 | - | - |
| Central Cooling Coil | Outlet | 63.1 | 0.00026 | 287 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 95.2 | 0.00026 | 287 | 400 | 9956 | - |
| Supply Fan | Outlet | 95.2 | 0.00026 | 287 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 95.2 | 0.00026 | 287 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 287 | 400 | -7814 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 287 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)
Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)
Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | -7814 | Heating | -7814 | 70.0 | 287 | 400 | 0 | 0 |

Air System Sizing Summary for 24 4E 403 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

Air System Information

| | | | |
|-----------------------|----------------------|-----------------------|---|
| Air System Name | 24 4E 403 CPT | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 927.0 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Cooling Coil Sizing Data

| | | | |
|--------------------------------|-----------------|--------------------------------------|----------------------|
| Total coil load | 0.6 Tons | Peak coil load occurs at | August 10:00 |
| Total coil load | 7.3 MBH | OA DB / WB | 76.7 / 67.2 F |
| Sensible coil load | 6.5 MBH | Entering DB / WB | 75.1 / 65.2 F |
| Coil CFM at peak load | 383 CFM | Leaving DB / WB | 59.7 / 59.2 F |
| Sum of peak zone CFM | 383 CFM | Resulting RH | 58 % |
| Sensible heat ratio | 0.895 | Design supply temp. | 58.0 F |
| CFM/Ton | 630.9 | Zone T-stat Check | 1 of 1 OK |
| sqft/Ton | 1526.2 | Max zone temperature deviation | 0.0 F |
| BTU/(hr sqft) | 7.9 | | |
| Water flow @ 10.0 F rise | N/A | | |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|-----------------|------------------------|-----------------------|
| Max coil load | 12.6 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 383 CFM | BTU/(hr sqft) | 13.6 |
| Max coil CFM | 383 CFM | Ent. DB / Lvg DB | 64.8 / 95.2 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|---------------------|-----------------|
| Design CFM | 383 CFM | Fan motor BHP | 0.00 BHP |
| Design CFM/sqft | 0.41 CFM/sqft | Fan motor kW | 0.00 kW |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 50 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.05 CFM/sqft | | |

Zone Sizing Summary for 24 4E 403 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

Air System Information

Air System Name **24 4E 403 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **927.0** sqft
 Location **Quebec City Beauport, QC, Canada**

Sizing Calculation 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 403 | 383 | 383 | 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) |
|-----------|-----------------------------|------------------------------------|-------------------------|------------------------|
| 4E 403 | 7.0 | August 11:00 | 10.3 | 927.0 |

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 403 | | | | | | |
| 4E 403 | 7.0 | August 11:00 | 383 | 10.3 | 927.0 | 0.41 |

Air System Heat Balance Summary for 24 4E 403 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - AUGUST 10:00 | | | DESIGN HEATING | | |
|------------------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | OA DB / WB 76.7 F / 67.2 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 | - | 6473 | 293 | - | 10443 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 383 CFM | 0 | - | 383 CFM | 0 | - |
| Ventilation Load | 50 CFM | 44 | 286 | 50 CFM | 2136 | 0 |
| Supply Fan Load | 383 CFM | 0 | - | 383 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 6517 | 578 | - | 12578 | 0 |
| Central Cooling Coil | - | 6520 | 769 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 12584 | - |
| >> Total Conditioning | - | 6520 | 769 | - | 12584 | 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 76.7 F / 67.2 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 | 180 sqft | 287 | - | 180 sqft | 519 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 50 sqft | 473 | - | 50 sqft | 528 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 42 sqft | 398 | - | 42 sqft | 445 | - |
| Floor Convection | 927 sqft | 2104 | - | 927 sqft | 896 | - |
| Interior Wall Convection | 720 sqft | 879 | - | 720 sqft | 436 | - |
| Ceiling Convection | 927 sqft | 1829 | - | 927 sqft | 2982 | - |
| 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 | 27 CFM | 3181 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 895 | 0 | 15% | 1348 | 0 |
| >> Total Zone Loads | - | 6865 | 0 | - | 10335 | 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 4E 403 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

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 | 76.9 | 0.01209 | 50 | 400 | 44 | 286 |
| Air-to-Air Energy Recovery | Outlet | 75.8 | 0.01209 | 50 | 400 | 58 | 0 |
| Vent - Return Mixing | Outlet | 75.1 | 0.01105 | 383 | 400 | - | - |
| Central Cooling Coil | Outlet | 59.7 | 0.01064 | 383 | 400 | 6520 | 769 |
| Central Heating Coil | Outlet | 59.7 | 0.01064 | 383 | 400 | 0 | - |
| Supply Fan | Outlet | 59.7 | 0.01064 | 383 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 59.7 | 0.01064 | 383 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01080 | 383 | 400 | 6473 | 293 |
| Return Air | Outlet | 75.0 | 0.01089 | 383 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 403 | 6471 | Cooling | 6473 | 75.0 | 383 | 400 | 0 | 0 |

System Psychrometrics for 24 4E 403 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

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 | 50 | 400 | -2136 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 50 | 400 | -2726 | 0 |
| Vent - Return Mixing | Outlet | 64.8 | 0.00026 | 383 | 400 | - | - |
| Central Cooling Coil | Outlet | 64.8 | 0.00026 | 383 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 95.2 | 0.00026 | 383 | 400 | 12584 | - |
| Supply Fan | Outlet | 95.2 | 0.00026 | 383 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 95.2 | 0.00026 | 383 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 383 | 400 | -10443 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 383 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 403 | -10443 | Heating | -10443 | 70.0 | 383 | 400 | 0 | 0 |

Air System Sizing Summary for 26 4E 404 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:48 AM

Air System Information

| | |
|--|--|
| Air System Name 26 4E 404 CPT | Number of zones 1 |
| Equipment Class SPLT AHU | Floor Area 969.7 sqft |
| Air System Type SZCAV | Location Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | |
|--|---|
| Calculation Months Jan to Dec | Zone CFM Sizing Sum of space airflow rates |
| Sizing Data Calculated | Space CFM Sizing Individual peak space loads |

Central Cooling Coil Sizing Data

| | |
|--|--|
| Total coil load 0.8 Tons | Peak coil load occurs at August 15:00 |
| Total coil load 9.7 MBH | OA DB / WB 85.9 / 70.0 F |
| Sensible coil load 9.4 MBH | Entering DB / WB 75.4 / 65.8 F |
| Coil CFM at peak load 627 CFM | Leaving DB / WB 61.8 / 61.1 F |
| Sum of peak zone CFM 627 CFM | Resulting RH 61 % |
| Sensible heat ratio 0.970 | Design supply temp. 58.0 F |
| CFM/Ton 775.4 | Zone T-stat Check 1 of 1 OK |
| sqft/Ton 1199.5 | Max zone temperature deviation 0.0 F |
| BTU/(hr sqft) 10.0 | |
| Water flow @ 10.0 F rise N/A | |

Central Heating Coil Sizing Data

| | |
|---|---|
| Max coil load 19.1 MBH | Load occurs at Design Heating |
| Coil CFM at Design Heating 627 CFM | BTU/(hr sqft) 19.7 |
| Max coil CFM 627 CFM | Ent. DB / Lvg DB 66.8 / 95.1 F |
| Water flow @ 20.0 F drop N/A | |

Supply Fan Sizing Data

| | |
|--|-------------------------------------|
| Design CFM 627 CFM | Fan motor BHP 0.00 BHP |
| Design CFM/sqft 0.65 CFM/sqft | Fan motor kW 0.00 kW |

Outdoor Ventilation Air Data

| | |
|--|---|
| Design airflow CFM 50 CFM | CFM/person 0.00 CFM/person |
| CFM/sqft 0.05 CFM/sqft | |

Zone Sizing Summary for 26 4E 404 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

Air System Information

Air System Name **26 4E 404 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **969.7** sqft
 Location **Quebec City Beauport, QC, Canada**

Sizing Calculation 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 404 | 627 | 627 | 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 404 | 9.7 | September 13:00 | 16.9 | 969.7 |

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 404 | | | | | | |
| 4E 404 | 9.7 | September 13:00 | 627 | 16.9 | 969.7 | 0.65 |

Air System Heat Balance Summary for 26 4E 404 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - AUGUST 15:00 | | | DESIGN HEATING | | |
|-------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 85.9 F / 70.0 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Zone Conditioning | - | 9148 | 53 | - | 16991 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 627 CFM | 0 | - | 627 CFM | 0 | - |
| Ventilation Load | 50 CFM | 257 | 181 | 50 CFM | 2136 | 0 |
| Supply Fan Load | 627 CFM | 0 | - | 627 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 9405 | 234 | - | 19127 | 0 |
| Central Cooling Coil | - | 9413 | 288 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 19133 | - |
| >> Total Conditioning | - | 9413 | 288 | - | 19133 | 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 | | |
|-------------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 85.9 F / 70.0 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Exterior Wall Convection | 371 sqft | 988 | - | 371 sqft | 1235 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 120 sqft | 960 | - | 120 sqft | 1419 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 42 sqft | 131 | - | 42 sqft | 492 | - |
| Floor Convection | 970 sqft | 2009 | - | 970 sqft | 1238 | - |
| Interior Wall Convection | 533 sqft | 811 | - | 533 sqft | 454 | - |
| Ceiling Convection | 970 sqft | 3389 | - | 970 sqft | 3626 | - |
| 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 | 53 CFM | 6237 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 1243 | 0 | 15% | 2205 | 0 |
| >> Total Zone Loads | - | 9531 | 0 | - | 16904 | 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 404 CPT
(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:48 AM

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 | 85.8 | 0.01211 | 50 | 400 | 257 | 181 |
| Air-to-Air Energy Recovery | Outlet | 79.8 | 0.01211 | 50 | 400 | 335 | 0 |
| Vent - Return Mixing | Outlet | 75.4 | 0.01141 | 627 | 400 | - | - |
| Central Cooling Coil | Outlet | 61.8 | 0.01132 | 627 | 400 | 9413 | 288 |
| Central Heating Coil | Outlet | 61.8 | 0.01132 | 627 | 400 | 0 | - |
| Supply Fan | Outlet | 61.8 | 0.01132 | 627 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 61.8 | 0.01132 | 627 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01133 | 627 | 400 | 9148 | 53 |
| Return Air | Outlet | 75.0 | 0.01135 | 627 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)
Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)
 Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 404 | 9147 | Cooling | 9148 | 75.0 | 627 | 400 | 0 | 0 |

System Psychrometrics for 26 4E 404 CPT (In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
Prepared by: Groupe CMI

02/23/2026
11:48 AM

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 | 50 | 400 | -2136 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 50 | 400 | -2726 | 0 |
| Vent - Return Mixing | Outlet | 66.8 | 0.00026 | 627 | 400 | - | - |
| Central Cooling Coil | Outlet | 66.8 | 0.00026 | 627 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 95.1 | 0.00026 | 627 | 400 | 19133 | - |
| Supply Fan | Outlet | 95.1 | 0.00026 | 627 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 95.1 | 0.00026 | 627 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 627 | 400 | -16991 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 627 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 404 | -16991 | Heating | -16991 | 70.0 | 627 | 400 | 0 | 0 |

Air System Sizing Summary for 28 4E 405 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

Air System Information

| | | | |
|-----------------------|----------------------|-----------------------|---|
| Air System Name | 28 4E 405 CPT | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 1080.4 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Cooling Coil Sizing Data

| | | | |
|--------------------------------|-----------------|--------------------------------------|----------------------|
| Total coil load | 1.0 Tons | Peak coil load occurs at | July 17:00 |
| Total coil load | 12.1 MBH | OA DB / WB | 84.9 / 69.7 F |
| Sensible coil load | 11.5 MBH | Entering DB / WB | 75.3 / 64.9 F |
| Coil CFM at peak load | 665 CFM | Leaving DB / WB | 59.6 / 59.1 F |
| Sum of peak zone CFM | 665 CFM | Resulting RH | 57 % |
| Sensible heat ratio | 0.951 | Design supply temp. | 58.0 F |
| CFM/Ton | 659.7 | Zone T-stat Check | 1 of 1 OK |
| sqft/Ton | 1071.0 | Max zone temperature deviation | 0.0 F |
| BTU/(hr sqft) | 11.2 | | |
| Water flow @ 10.0 F rise | N/A | | |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|-----------------|------------------------|-----------------------|
| Max coil load | 20.2 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 665 CFM | BTU/(hr sqft) | 18.7 |
| Max coil CFM | 665 CFM | Ent. DB / Lvg DB | 67.0 / 95.1 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|---------------------|-----------------|
| Design CFM | 665 CFM | Fan motor BHP | 0.00 BHP |
| Design CFM/sqft | 0.62 CFM/sqft | Fan motor kW | 0.00 kW |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 50 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.05 CFM/sqft | | |

Zone Sizing Summary for 28 4E 405 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

Air System Information

Air System Name **28 4E 405 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **1080.4** sqft
 Location **Quebec City Beauport, QC, Canada**

Sizing Calculation 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 | 665 | 665 | 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) |
|-----------|-----------------------------|------------------------------------|-------------------------|------------------------|
| 4E 405 | 11.9 | July 17:00 | 17.9 | 1080.4 |

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 405 | | | | | | |
| 4E 405 | 11.9 | July 17:00 | 665 | 17.9 | 1080.4 | 0.62 |

Air System Heat Balance Summary for 28 4E 405 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - JULY 17:00 | | | DESIGN HEATING | | |
|------------------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | OA DB / WB 84.9 F / 69.7 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 | - | 11267 | 121 | - | 18039 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 665 CFM | 0 | - | 665 CFM | 0 | - |
| Ventilation Load | 50 CFM | 231 | 341 | 50 CFM | 2136 | 0 |
| Supply Fan Load | 665 CFM | 0 | - | 665 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 11498 | 462 | - | 20175 | 0 |
| Central Cooling Coil | - | 11507 | 598 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 20181 | - |
| >> Total Conditioning | - | 11507 | 598 | - | 20181 | 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 84.9 F / 69.7 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 | 404 sqft | 1043 | - | 404 sqft | 1322 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 120 sqft | 1107 | - | 120 sqft | 1409 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 42 sqft | 362 | - | 42 sqft | 498 | - |
| Floor Convection | 1080 sqft | 2385 | - | 1080 sqft | 1337 | - |
| Interior Wall Convection | 566 sqft | 1055 | - | 566 sqft | 454 | - |
| Ceiling Convection | 1080 sqft | 4380 | - | 1080 sqft | 3968 | - |
| 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 | 6618 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 1550 | 0 | 15% | 2341 | 0 |
| >> Total Zone Loads | - | 11881 | 0 | - | 17947 | 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: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

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 | 84.8 | 0.01211 | 50 | 400 | 231 | 341 |
| Air-to-Air Energy Recovery | Outlet | 79.3 | 0.01211 | 50 | 400 | 301 | 0 |
| Vent - Return Mixing | Outlet | 75.3 | 0.01078 | 665 | 400 | - | - |
| Central Cooling Coil | Outlet | 59.6 | 0.01060 | 665 | 400 | 11507 | 598 |
| Central Heating Coil | Outlet | 59.6 | 0.01060 | 665 | 400 | 0 | - |
| Supply Fan | Outlet | 59.6 | 0.01060 | 665 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 59.6 | 0.01060 | 665 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01064 | 665 | 400 | 11267 | 121 |
| Return Air | Outlet | 75.0 | 0.01068 | 665 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | 11266 | Cooling | 11267 | 75.0 | 665 | 400 | 0 | 0 |

System Psychrometrics for 28 4E 405 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

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 | 50 | 400 | -2136 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 50 | 400 | -2726 | 0 |
| Vent - Return Mixing | Outlet | 67.0 | 0.00026 | 665 | 400 | - | - |
| Central Cooling Coil | Outlet | 67.0 | 0.00026 | 665 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 95.1 | 0.00026 | 665 | 400 | 20181 | - |
| Supply Fan | Outlet | 95.1 | 0.00026 | 665 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 95.1 | 0.00026 | 665 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 665 | 400 | -18039 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 665 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | -18039 | Heating | -18039 | 70.0 | 665 | 400 | 0 | 0 |

Zone Sizing Summary for 30 4E 406 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

Air System Information

| | |
|--|--|
| Air System Name 30 4E 406 CPT | Number of zones 1 |
| Equipment Class SPLT AHU | Floor Area 691.2 sqft |
| Air System Type SZCAV | Location Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | |
|--|---|
| Calculation Months Jan to Dec | Zone CFM Sizing Sum of space airflow rates |
| 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) |
|-----------|-----------------------------|------------------------------|---------------|----------------------------|--------------------------------|-----------------------------------|----------------------------------|------------------------------|
| 4E 406 | 286 | 286 | 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) |
|-----------|-----------------------------|------------------------------------|-------------------------|------------------------|
| 4E 406 | 5.2 | June 18:00 | 7.7 | 691.2 |

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 406 | | | | | | |
| 4E 406 | 5.2 | June 18:00 | 286 | 7.7 | 691.2 | 0.41 |

Air System Heat Balance Summary for 30 4E 406 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - JULY 17:00 | | | DESIGN HEATING | | |
|------------------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 84.9 F / 69.7 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Zone Conditioning | - | 4602 | 299 | - | 7802 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 286 CFM | 0 | - | 286 CFM | 0 | - |
| Ventilation Load | 50 CFM | 231 | 192 | 50 CFM | 2136 | 0 |
| Supply Fan Load | 286 CFM | 0 | - | 286 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 4833 | 491 | - | 9937 | 0 |
| Central Cooling Coil | - | 4841 | 676 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 9944 | - |
| >> Total Conditioning | - | 4841 | 676 | - | 9944 | 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 | | |
|----------------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 84.9 F / 69.7 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Exterior Wall Convection | 136 sqft | 178 | - | 136 sqft | 389 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 25 sqft | 183 | - | 25 sqft | 271 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 42 sqft | 304 | - | 42 sqft | 455 | - |
| Floor Convection | 691 sqft | 1092 | - | 691 sqft | 647 | - |
| Interior Wall Convection | 651 sqft | 648 | - | 651 sqft | 378 | - |
| Ceiling Convection | 691 sqft | 1849 | - | 691 sqft | 2206 | - |
| 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 | 2371 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 638 | 0 | 15% | 1007 | 0 |
| >> Total Zone Loads | - | 4892 | 0 | - | 7723 | 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 406 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

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 | 84.8 | 0.01211 | 50 | 400 | 231 | 192 |
| Air-to-Air Energy Recovery | Outlet | 79.3 | 0.01211 | 50 | 400 | 301 | 0 |
| Vent - Return Mixing | Outlet | 75.8 | 0.01145 | 286 | 400 | - | - |
| Central Cooling Coil | Outlet | 60.4 | 0.01096 | 286 | 400 | 4841 | 676 |
| Central Heating Coil | Outlet | 60.4 | 0.01096 | 286 | 400 | 0 | - |
| Supply Fan | Outlet | 60.4 | 0.01096 | 286 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 60.4 | 0.01096 | 286 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01118 | 286 | 400 | 4602 | 299 |
| Return Air | Outlet | 75.0 | 0.01131 | 286 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | 4600 | Cooling | 4602 | 75.0 | 286 | 400 | 0 | 0 |

System Psychrometrics for 30 4E 406 CPT
(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:48 AM

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 | 50 | 400 | -2136 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 50 | 400 | -2726 | 0 |
| Vent - Return Mixing | Outlet | 63.1 | 0.00026 | 286 | 400 | - | - |
| Central Cooling Coil | Outlet | 63.1 | 0.00026 | 286 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 95.2 | 0.00026 | 286 | 400 | 9944 | - |
| Supply Fan | Outlet | 95.2 | 0.00026 | 286 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 95.2 | 0.00026 | 286 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 286 | 400 | -7802 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 286 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)
Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)
Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | -7802 | Heating | -7802 | 70.0 | 286 | 400 | 0 | 0 |

Air System Sizing Summary for 32 4E 407 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

Air System Information

| | | | |
|-----------------------|----------------------|-----------------------|---|
| Air System Name | 32 4E 407 CPT | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 951.8 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Cooling Coil Sizing Data

| | | | |
|--------------------------------|-----------------|--------------------------------------|----------------------|
| Total coil load | 0.6 Tons | Peak coil load occurs at | July 17:00 |
| Total coil load | 7.2 MBH | OA DB / WB | 84.9 / 69.7 F |
| Sensible coil load | 6.4 MBH | Entering DB / WB | 75.5 / 66.0 F |
| Coil CFM at peak load | 393 CFM | Leaving DB / WB | 60.7 / 60.3 F |
| Sum of peak zone CFM | 393 CFM | Resulting RH | 61 % |
| Sensible heat ratio | 0.888 | Design supply temp. | 58.0 F |
| CFM/Ton | 651.8 | Zone T-stat Check | 1 of 1 OK |
| sqft/Ton | 1578.7 | Max zone temperature deviation | 0.0 F |
| BTU/(hr sqft) | 7.6 | | |
| Water flow @ 10.0 F rise | N/A | | |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|-----------------|------------------------|-----------------------|
| Max coil load | 12.9 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 393 CFM | BTU/(hr sqft) | 13.5 |
| Max coil CFM | 393 CFM | Ent. DB / Lvg DB | 65.0 / 95.2 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|---------------------|-----------------|
| Design CFM | 393 CFM | Fan motor BHP | 0.00 BHP |
| Design CFM/sqft | 0.41 CFM/sqft | Fan motor kW | 0.00 kW |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 50 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.05 CFM/sqft | | |

Zone Sizing Summary for 32 4E 407 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

Air System Information

Air System Name **32 4E 407 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **951.8** sqft
 Location **Quebec City Beauport, QC, Canada**

Sizing Calculation 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 407 | 393 | 393 | 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) |
|-----------|-----------------------------|------------------------------------|-------------------------|------------------------|
| 4E 407 | 7.0 | June 18:00 | 10.6 | 951.8 |

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 407 | | | | | | |
| 4E 407 | 7.0 | June 18:00 | 393 | 10.6 | 951.8 | 0.41 |

Air System Heat Balance Summary for 32 4E 407 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - JULY 17:00 | | | DESIGN HEATING | | |
|-------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | OA DB / WB 84.9 F / 69.7 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 | - | 6189 | 393 | - | 10709 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 393 CFM | 0 | - | 393 CFM | 0 | - |
| Ventilation Load | 50 CFM | 231 | 175 | 50 CFM | 2136 | 0 |
| Supply Fan Load | 393 CFM | 0 | - | 393 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 6420 | 567 | - | 12845 | 0 |
| Central Cooling Coil | - | 6427 | 807 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 12851 | - |
| >> Total Conditioning | - | 6427 | 807 | - | 12851 | 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 84.9 F / 69.7 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 | 187 sqft | 246 | - | 187 sqft | 538 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 50 sqft | 364 | - | 50 sqft | 543 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 42 sqft | 301 | - | 42 sqft | 455 | - |
| Floor Convection | 952 sqft | 1574 | - | 952 sqft | 921 | - |
| Interior Wall Convection | 727 sqft | 661 | - | 727 sqft | 441 | - |
| Ceiling Convection | 952 sqft | 2545 | - | 952 sqft | 3059 | - |
| 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 | 28 CFM | 3259 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 854 | 0 | 15% | 1382 | 0 |
| >> Total Zone Loads | - | 6545 | 0 | - | 10598 | 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 407 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

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 | 84.8 | 0.01211 | 50 | 400 | 231 | 175 |
| Air-to-Air Energy Recovery | Outlet | 79.3 | 0.01211 | 50 | 400 | 301 | 0 |
| Vent - Return Mixing | Outlet | 75.5 | 0.01147 | 393 | 400 | - | - |
| Central Cooling Coil | Outlet | 60.7 | 0.01105 | 393 | 400 | 6427 | 807 |
| Central Heating Coil | Outlet | 60.7 | 0.01105 | 393 | 400 | 0 | - |
| Supply Fan | Outlet | 60.7 | 0.01105 | 393 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 60.7 | 0.01105 | 393 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01126 | 393 | 400 | 6189 | 393 |
| Return Air | Outlet | 75.0 | 0.01138 | 393 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 407 | 6186 | Cooling | 6189 | 75.0 | 393 | 400 | 0 | 0 |

System Psychrometrics for 32 4E 407 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

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 | 50 | 400 | -2136 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 50 | 400 | -2726 | 0 |
| Vent - Return Mixing | Outlet | 65.0 | 0.00026 | 393 | 400 | - | - |
| Central Cooling Coil | Outlet | 65.0 | 0.00026 | 393 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 95.2 | 0.00026 | 393 | 400 | 12851 | - |
| Supply Fan | Outlet | 95.2 | 0.00026 | 393 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 95.2 | 0.00026 | 393 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 393 | 400 | -10709 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 393 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 407 | -10709 | Heating | -10709 | 70.0 | 393 | 400 | 0 | 0 |

Air System Sizing Summary for 34 4E 408 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

Air System Information

| | | | |
|-----------------|---------------|-----------------|----------------------------------|
| Air System Name | 34 4E 408 CPT | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 930.2 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------|------------|------------------|-----------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Cooling Coil Sizing Data

| | | | |
|--------------------------|----------|--------------------------------|---------------|
| Total coil load | 0.6 Tons | Peak coil load occurs at | July 17:00 |
| Total coil load | 6.7 MBH | OA DB / WB | 84.9 / 69.7 F |
| Sensible coil load | 6.7 MBH | Entering DB / WB | 75.4 / 66.8 F |
| Coil CFM at peak load | 579 CFM | Leaving DB / WB | 64.8 / 63.3 F |
| Sum of peak zone CFM | 579 CFM | Resulting RH | 65 % |
| Sensible heat ratio | 1.000 | Design supply temp. | 58.0 F |
| CFM/Ton | 1030.6 | Zone T-stat Check | 1 of 1 OK |
| sqft/Ton | 1655.9 | Max zone temperature deviation | 0.0 F |
| BTU/(hr sqft) | 7.2 | | |
| Water flow @ 10.0 F rise | N/A | | |

Central Heating Coil Sizing Data

| | | | |
|----------------------------|----------|------------------|----------------|
| Max coil load | 17.8 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 579 CFM | BTU/(hr sqft) | 19.2 |
| Max coil CFM | 579 CFM | Ent. DB / Lvg DB | 66.6 / 95.1 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------|---------------|---------------|----------|
| Design CFM | 579 CFM | Fan motor BHP | 0.00 BHP |
| Design CFM/sqft | 0.62 CFM/sqft | Fan motor kW | 0.00 kW |

Outdoor Ventilation Air Data

| | | | |
|--------------------|---------------|------------|-----------------|
| Design airflow CFM | 50 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.05 CFM/sqft | | |

Zone Sizing Summary for 34 4E 408 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

Air System Information

| | |
|--|--|
| Air System Name 34 4E 408 CPT | Number of zones 1 |
| Equipment Class SPLT AHU | Floor Area 930.2 sqft |
| Air System Type SZCAV | Location Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | |
|--|---|
| Calculation Months Jan to Dec | Zone CFM Sizing Sum of space airflow rates |
| 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) |
|-----------|-----------------------------|------------------------------|---------------|----------------------------|--------------------------------|-----------------------------------|----------------------------------|------------------------------|
| 4E 408 | 579 | 579 | 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) |
|-----------|-----------------------------|------------------------------------|-------------------------|------------------------|
| 4E 408 | 6.8 | June 17:00 | 15.6 | 930.2 |

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 408 | | | | | | |
| 4E 408 | 6.8 | June 17:00 | 579 | 15.6 | 930.2 | 0.62 |

Air System Heat Balance Summary for 34 4E 408 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - JULY 17:00 | | | DESIGN HEATING | | |
|------------------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | OA DB / WB 84.9 F / 69.7 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 | - | 6504 | -1 | - | 15696 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 579 CFM | 0 | - | 579 CFM | 0 | - |
| Ventilation Load | 50 CFM | 231 | 2 | 50 CFM | 2136 | 0 |
| Supply Fan Load | 579 CFM | 0 | - | 579 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 6735 | 1 | - | 17832 | 0 |
| Central Cooling Coil | - | 6741 | 0 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 17838 | - |
| >> Total Conditioning | - | 6741 | 0 | - | 17838 | 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 84.9 F / 69.7 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 | 336 sqft | 484 | - | 336 sqft | 1111 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 105 sqft | 647 | - | 105 sqft | 1254 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 42 sqft | 112 | - | 42 sqft | 511 | - |
| Floor Convection | 930 sqft | 1554 | - | 930 sqft | 1177 | - |
| Interior Wall Convection | 510 sqft | 472 | - | 510 sqft | 416 | - |
| Ceiling Convection | 930 sqft | 2605 | - | 930 sqft | 3450 | - |
| 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 | 5658 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 881 | 0 | 15% | 2036 | 0 |
| >> Total Zone Loads | - | 6755 | 0 | - | 15613 | 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 408 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

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 | 84.8 | 0.01211 | 50 | 400 | 231 | 2 |
| Air-to-Air Energy Recovery | Outlet | 79.3 | 0.01211 | 50 | 400 | 302 | 0 |
| Vent - Return Mixing | Outlet | 75.4 | 0.01211 | 579 | 400 | - | - |
| Central Cooling Coil | Outlet | 64.8 | 0.01211 | 579 | 400 | 6741 | 0 |
| Central Heating Coil | Outlet | 64.8 | 0.01211 | 579 | 400 | 0 | - |
| Supply Fan | Outlet | 64.8 | 0.01211 | 579 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 64.8 | 0.01211 | 579 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01211 | 579 | 400 | 6504 | -1 |
| Return Air | Outlet | 75.0 | 0.01211 | 579 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | 6504 | Cooling | 6504 | 75.0 | 579 | 400 | 0 | 0 |

System Psychrometrics for 34 4E 408 CPT
(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:48 AM

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 | 50 | 400 | -2136 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 50 | 400 | -2726 | 0 |
| Vent - Return Mixing | Outlet | 66.6 | 0.00026 | 579 | 400 | - | - |
| Central Cooling Coil | Outlet | 66.6 | 0.00026 | 579 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 95.1 | 0.00026 | 579 | 400 | 17838 | - |
| Supply Fan | Outlet | 95.1 | 0.00026 | 579 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 95.1 | 0.00026 | 579 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 579 | 400 | -15696 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 579 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)
Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)
 Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | -15696 | Heating | -15696 | 70.0 | 579 | 400 | 0 | 0 |

Air System Sizing Summary for 36 RDC x 8 Log CPT (In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
Prepared by: Groupe CMI

02/23/2026
11:48 AM

Air System Information

| | |
|---|--|
| Air System Name 36 RDC x 8 Log CPT | Number of zones 1 |
| Equipment Class SPLT AHU | Floor Area 7447.7 sqft |
| Air System Type SZCAV | Location Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | |
|--|---|
| Calculation Months Jan to Dec | Zone CFM Sizing Sum of space airflow rates |
| Sizing Data Calculated | Space CFM Sizing Individual peak space loads |

Central Cooling Coil Sizing Data

| | |
|---|---|
| Total coil load 2.9 Tons | Peak coil load occurs at July 17:00 |
| Total coil load 34.2 MBH | OA DB / WB 84.9 / 69.7 F |
| Sensible coil load 34.2 MBH | Entering DB / WB 75.6 / 66.9 F |
| Coil CFM at peak load 2999 CFM | Leaving DB / WB 65.2 / 63.5 F |
| Sum of peak zone CFM 2999 CFM | Resulting RH 65 % |
| Sensible heat ratio 1.000 | Design supply temp. 58.0 F |
| CFM/Ton 1051.2 | Zone T-stat Check 1 of 1 OK |
| sqft/Ton 2610.7 | Max zone temperature deviation 0.0 F |
| BTU/(hr sqft) 4.6 | |
| Water flow @ 10.0 F rise N/A | |

Central Heating Coil Sizing Data

| | |
|--|---|
| Max coil load 99.8 MBH | Load occurs at Design Heating |
| Coil CFM at Design Heating 2999 CFM | BTU/(hr sqft) 13.4 |
| Max coil CFM 2999 CFM | Ent. DB / Lvg DB 64.7 / 95.5 F |
| Water flow @ 20.0 F drop N/A | |

Supply Fan Sizing Data

| | |
|--|-------------------------------------|
| Design CFM 2999 CFM | Fan motor BHP 0.00 BHP |
| Design CFM/sqft 0.40 CFM/sqft | Fan motor kW 0.00 kW |

Outdoor Ventilation Air Data

| | |
|---|---|
| Design airflow CFM 400 CFM | CFM/person 0.00 CFM/person |
| CFM/sqft 0.05 CFM/sqft | |

Zone Sizing Summary for 36 RDC x 8 Log CPT (In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
Prepared by: Groupe CMI

02/23/2026
11:48 AM

Air System Information

| | |
|---|--|
| Air System Name 36 RDC x 8 Log CPT | Number of zones 1 |
| Equipment Class SPLT AHU | Floor Area 7447.7 sqft |
| Air System Type SZCAV | Location Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | |
|--|---|
| Calculation Months Jan to Dec | Zone CFM Sizing Sum of space airflow rates |
| 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) |
|-------------|-----------------------------|------------------------------|---------------|----------------------------|--------------------------------|-----------------------------------|----------------------------------|------------------------------|
| RDC x 8 Log | 2999 | 2999 | 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) |
|-------------|-----------------------------|------------------------------------|-------------------------|------------------------|
| RDC x 8 Log | 32.0 | July 17:00 | 80.9 | 7447.7 |

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 x 8 Log | | | | | | |
| RDC x 8 Log | 32.0 | July 17:00 | 2999 | 80.9 | 7447.7 | 0.40 |

Air System Heat Balance Summary for 36 RDC x 8 Log CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - JULY 17:00 | | | DESIGN HEATING | | |
|-------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 84.9 F / 69.7 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Zone Conditioning | - | 32335 | -8 | - | 82671 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 2999 CFM | 0 | - | 2999 CFM | 0 | - |
| Ventilation Load | 400 CFM | 1851 | 12 | 400 CFM | 17087 | 0 |
| Supply Fan Load | 2999 CFM | 0 | - | 2999 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 34186 | 4 | - | 99757 | 0 |
| Central Cooling Coil | - | 34232 | 0 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 99806 | - |
| >> Total Conditioning | - | 34232 | 0 | - | 99806 | 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 | | |
|-------------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 84.9 F / 69.7 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Exterior Wall Convection | 2295 sqft | 3688 | - | 2295 sqft | 6624 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 584 sqft | 2875 | - | 584 sqft | 6254 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 336 sqft | 1212 | - | 336 sqft | 3595 | - |
| Floor Convection | 7448 sqft | 8121 | - | 7448 sqft | 6204 | - |
| Interior Wall Convection | 1948 sqft | 1520 | - | 1948 sqft | 990 | - |
| Ceiling Convection | 7448 sqft | 10402 | - | 7448 sqft | 9143 | - |
| 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 | 321 CFM | 37515 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 4173 | 0 | 15% | 10549 | 0 |
| >> Total Zone Loads | - | 31991 | 0 | - | 80873 | 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 RDC x 8 Log CPT (In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

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 | 84.8 | 0.01211 | 400 | 400 | 1851 | 12 |
| Air-to-Air Energy Recovery | Outlet | 79.3 | 0.01211 | 400 | 400 | 2415 | 0 |
| Vent - Return Mixing | Outlet | 75.6 | 0.01211 | 2999 | 400 | - | - |
| Central Cooling Coil | Outlet | 65.2 | 0.01211 | 2999 | 400 | 34232 | 0 |
| Central Heating Coil | Outlet | 65.2 | 0.01211 | 2999 | 400 | 0 | - |
| Supply Fan | Outlet | 65.2 | 0.01211 | 2999 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 65.2 | 0.01211 | 2999 | 400 | - | - |
| Zone Air | - | 75.0 | 0.01211 | 2999 | 400 | 32335 | -8 |
| Return Air | Outlet | 75.0 | 0.01211 | 2999 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 x 8 Log | 32335 | Cooling | 32335 | 75.0 | 2999 | 400 | 0 | 0 |

System Psychrometrics for 36 RDC x 8 Log CPT (In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
Prepared by: Groupe CMI

02/23/2026
11:48 AM

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 | -17087 | 0 |
| Air-to-Air Energy Recovery | Outlet | 30.4 | 0.00026 | 400 | 400 | -21808 | 0 |
| Vent - Return Mixing | Outlet | 64.7 | 0.00026 | 2999 | 400 | - | - |
| Central Cooling Coil | Outlet | 64.7 | 0.00026 | 2999 | 400 | 0 | 0 |
| Central Heating Coil | Outlet | 95.5 | 0.00026 | 2999 | 400 | 99806 | - |
| Supply Fan | Outlet | 95.5 | 0.00026 | 2999 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 95.5 | 0.00026 | 2999 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 2999 | 400 | -82671 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 2999 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 x 8 Log | -82671 | Heating | -82671 | 70.0 | 2999 | 400 | 0 | 0 |

Air System Sizing Summary for 38 3E ESC1 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

Air System Information

| | | | |
|-----------------------|-----------------------|-----------------------|---|
| Air System Name | 38 3E ESC1 CPT | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 228.3 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|----------------|------------------------|-----------------------|
| Max coil load | 1.8 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 65 CFM | BTU/(hr sqft) | 7.8 |
| Max coil CFM | 65 CFM | Ent. DB / Lvg DB | 70.0 / 95.4 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|------------------------|-------------------|
| Design CFM | 65 CFM | Fan motor BHP | 0.02 BHP |
| Design CFM/sqft | 0.28 CFM/sqft | Fan motor kW | 0.02 kW |
| | | Fan total static | 2.00 in wg |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 0 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.00 CFM/sqft | | |

Zone Sizing Summary for 38 3E ESC1 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

Air System Information

| | |
|---|--|
| Air System Name 38 3E ESC1 CPT | Number of zones 1 |
| Equipment Class SPLT AHU | Floor Area 228.3 sqft |
| Air System Type SZCAV | Location Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | |
|--|---|
| Calculation Months Jan to Dec | Zone CFM Sizing Sum of space airflow rates |
| 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) |
|-----------|-----------------------------|------------------------------|---------------|----------------------------|--------------------------------|-----------------------------------|----------------------------------|------------------------------|
| 3E ESC1 | 65 | 65 | 0.28 | 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 | 1.8 | 228.3 |

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 |
|------------------------|------------------------|----------------------------|----------------|--------------------|-------------------|----------------|
| 3E ESC1 | | | | | | |
| 3E ESC1 | 0.0 | February 13:00 | 65 | 1.8 | 228.3 | 0.28 |

Air System Heat Balance Summary for 38 3E ESC1 CPT (In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
Prepared by: Groupe CMI

02/23/2026
11:48 AM

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 | - | - | - | - | 1839 | 0 |
| Plenum Load | - | - | - | - | 0 | 0 |
| Return Fan Load | - | - | - | 65 CFM | 0 | - |
| Ventilation Load | - | - | - | 0 CFM | 0 | 0 |
| Supply Fan Load | - | - | - | 65 CFM | -52 | - |
| Zone Fan Coil Fans Load | - | - | - | - | 0 | - |
| >> Total System Loads | - | - | - | - | 1787 | 0 |
| Central Heating Coil | - | - | - | - | 1787 | - |
| >> Total Conditioning | - | - | - | - | 1787 | 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 | 60 sqft | - | - | 60 sqft | 145 | - |
| Roof Convection | 0 sqft | - | - | 0 sqft | 0 | - |
| Window Convection | 12 sqft | - | - | 12 sqft | 129 | - |
| Skylight Convection | 0 sqft | - | - | 0 sqft | 0 | - |
| Door Convection | 0 sqft | - | - | 0 sqft | 0 | - |
| Floor Convection | 228 sqft | - | - | 228 sqft | 101 | - |
| Interior Wall Convection | 524 sqft | - | - | 524 sqft | 163 | - |
| Ceiling Convection | 228 sqft | - | - | 228 sqft | 151 | - |
| Overhead Lighting Convection | - | - | - | 0 W | 0 | - |
| Task Lighting Convection | - | - | - | 0 W | 0 | - |
| Electric Equipment Convection | - | - | - | 0 W | 0 | - |
| People Convection | - | - | - | 0 | 0 | 0 |
| Infiltration | - | - | - | 7 CFM | 835 | 0 |
| Miscellaneous Equipment | - | - | - | - | 0 | 0 |
| Air Internal Energy Change | - | - | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | - | - | 15% | 229 | 0 |
| >> Total Zone Loads | - | - | - | - | 1753 | 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 3E ESC1 CPT (In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
Prepared by: Groupe CMI

02/23/2026
11:48 AM

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 | 65 | 400 | - | - |
| Central Heating Coil | Outlet | 95.4 | 0.00026 | 65 | 400 | 1787 | - |
| Supply Fan | Outlet | 96.2 | 0.00026 | 65 | 400 | 52 | - |
| Cold Supply Duct | Outlet | 96.2 | 0.00026 | 65 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 65 | 400 | -1839 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 65 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | -1839 | Heating | -1839 | 70.0 | 65 | 400 | 0 | 0 |

Air System Sizing Summary for 40 4E ESC1 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

Air System Information

| | | | |
|-----------------------|-----------------------|-----------------------|---|
| Air System Name | 40 4E ESC1 CPT | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 140.2 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|----------------|------------------------|-----------------------|
| Max coil load | 1.6 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 60 CFM | BTU/(hr sqft) | 11.2 |
| Max coil CFM | 60 CFM | Ent. DB / Lvg DB | 70.0 / 94.4 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|------------------------|-------------------|
| Design CFM | 60 CFM | Fan motor BHP | 0.02 BHP |
| Design CFM/sqft | 0.42 CFM/sqft | Fan motor kW | 0.01 kW |
| | | Fan total static | 2.00 in wg |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 0 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.00 CFM/sqft | | |

Zone Sizing Summary for 40 4E ESC1 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

Air System Information

| | |
|---|--|
| Air System Name 40 4E ESC1 CPT | Number of zones 1 |
| Equipment Class SPLT AHU | Floor Area 140.2 sqft |
| Air System Type SZCAV | Location Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | |
|--|---|
| Calculation Months Jan to Dec | Zone CFM Sizing Sum of space airflow rates |
| 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) |
|-----------|-----------------------------|------------------------------|---------------|----------------------------|--------------------------------|-----------------------------------|----------------------------------|------------------------------|
| 4E ESC1 | 60 | 60 | 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 ESC1 | 0.0 | June 16:00 | 1.6 | 140.2 |

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 ESC1 | | | | | | |
| 4E ESC1 | 0.0 | June 16:00 | 60 | 1.6 | 140.2 | 0.42 |

Air System Heat Balance Summary for 40 4E ESC1 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

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 | - | - | - | - | 1618 | 0 |
| Plenum Load | - | - | - | - | 0 | 0 |
| Return Fan Load | - | - | - | 60 CFM | 0 | - |
| Ventilation Load | - | - | - | 0 CFM | 0 | 0 |
| Supply Fan Load | - | - | - | 60 CFM | -48 | - |
| Zone Fan Coil Fans Load | - | - | - | - | 0 | - |
| >> Total System Loads | - | - | - | - | 1570 | 0 |
| Central Heating Coil | - | - | - | - | 1570 | - |
| >> Total Conditioning | - | - | - | - | 1570 | 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 | 29 sqft | - | - | 29 sqft | 79 | - |
| Roof Convection | 0 sqft | - | - | 0 sqft | 0 | - |
| Window Convection | 12 sqft | - | - | 12 sqft | 127 | - |
| Skylight Convection | 0 sqft | - | - | 0 sqft | 0 | - |
| Door Convection | 0 sqft | - | - | 0 sqft | 0 | - |
| Floor Convection | 140 sqft | - | - | 140 sqft | 89 | - |
| Interior Wall Convection | 489 sqft | - | - | 489 sqft | 208 | - |
| Ceiling Convection | 140 sqft | - | - | 140 sqft | 410 | - |
| Overhead Lighting Convection | - | - | - | 0 W | 0 | - |
| Task Lighting Convection | - | - | - | 0 W | 0 | - |
| Electric Equipment Convection | - | - | - | 0 W | 0 | - |
| People Convection | - | - | - | 0 | 0 | 0 |
| Infiltration | - | - | - | 4 CFM | 483 | 0 |
| Miscellaneous Equipment | - | - | - | - | 0 | 0 |
| Air Internal Energy Change | - | - | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | - | - | 15% | 210 | 0 |
| >> Total Zone Loads | - | - | - | - | 1607 | 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 ESC1 CPT (In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
Prepared by: Groupe CMI

02/23/2026
11:48 AM

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 | 60 | 400 | - | - |
| Central Heating Coil | Outlet | 94.4 | 0.00026 | 60 | 400 | 1570 | - |
| Supply Fan | Outlet | 95.1 | 0.00026 | 60 | 400 | 48 | - |
| Cold Supply Duct | Outlet | 95.1 | 0.00026 | 60 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 60 | 400 | -1618 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 60 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | -1618 | Heating | -1618 | 70.0 | 60 | 400 | 0 | 0 |

Air System Sizing Summary for 42 4E ESC2 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

Air System Information

| | | | |
|-----------------------|-----------------------|-----------------------|---|
| Air System Name | 42 4E ESC2 CPT | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 168.9 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|----------------|------------------------|-----------------------|
| Max coil load | 5.6 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 212 CFM | BTU/(hr sqft) | 33.0 |
| Max coil CFM | 212 CFM | Ent. DB / Lvg DB | 70.0 / 94.3 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|------------------------|-------------------|
| Design CFM | 212 CFM | Fan motor BHP | 0.06 BHP |
| Design CFM/sqft | 1.26 CFM/sqft | Fan motor kW | 0.05 kW |
| | | Fan total static | 2.00 in wg |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 0 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.00 CFM/sqft | | |

Zone Sizing Summary for 42 4E ESC2 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

Air System Information

Air System Name **42 4E ESC2 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **168.9** sqft
 Location **Quebec City Beauport, QC, Canada**

Sizing Calculation 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 | 212 | 212 | 1.26 | 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 | 0.0 | August 7:00 | 5.7 | 168.9 |

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 ESC2 | | | | | | |
| 4E ESC2 | 0.0 | August 7:00 | 212 | 5.7 | 168.9 | 1.26 |

Air System Heat Balance Summary for 42 4E ESC2 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

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 | - | - | - | - | 5735 | 0 |
| Plenum Load | - | - | - | - | 0 | 0 |
| Return Fan Load | - | - | - | 212 CFM | 0 | - |
| Ventilation Load | - | - | - | 0 CFM | 0 | 0 |
| Supply Fan Load | - | - | - | 212 CFM | -170 | - |
| Zone Fan Coil Fans Load | - | - | - | - | 0 | - |
| >> Total System Loads | - | - | - | - | 5565 | 0 |
| Central Heating Coil | - | - | - | - | 5565 | - |
| >> Total Conditioning | - | - | - | - | 5565 | 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 | 219 sqft | - | - | 219 sqft | 780 | - |
| Roof Convection | 0 sqft | - | - | 0 sqft | 0 | - |
| Window Convection | 24 sqft | - | - | 24 sqft | 337 | - |
| Skylight Convection | 0 sqft | - | - | 0 sqft | 0 | - |
| Door Convection | 0 sqft | - | - | 0 sqft | 0 | - |
| Floor Convection | 169 sqft | - | - | 169 sqft | 181 | - |
| Interior Wall Convection | 243 sqft | - | - | 243 sqft | 197 | - |
| Ceiling Convection | 169 sqft | - | - | 169 sqft | 638 | - |
| Overhead Lighting Convection | - | - | - | 0 W | 0 | - |
| Task Lighting Convection | - | - | - | 0 W | 0 | - |
| Electric Equipment Convection | - | - | - | 0 W | 0 | - |
| People Convection | - | - | - | 0 | 0 | 0 |
| Infiltration | - | - | - | 24 CFM | 2840 | 0 |
| Miscellaneous Equipment | - | - | - | - | 0 | 0 |
| Air Internal Energy Change | - | - | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | - | - | 15% | 746 | 0 |
| >> Total Zone Loads | - | - | - | - | 5719 | 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 ESC2 CPT (In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
Prepared by: Groupe CMI

02/23/2026
11:48 AM

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 | 212 | 400 | - | - |
| Central Heating Coil | Outlet | 94.3 | 0.00026 | 212 | 400 | 5565 | - |
| Supply Fan | Outlet | 95.0 | 0.00026 | 212 | 400 | 170 | - |
| Cold Supply Duct | Outlet | 95.0 | 0.00026 | 212 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 212 | 400 | -5735 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 212 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | -5735 | Heating | -5735 | 70.0 | 212 | 400 | 0 | 0 |

Air System Sizing Summary for 44 SS Stationnement CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

Air System Information

| | | | |
|-----------------------|--------------------------------|-----------------------|---|
| Air System Name | 44 SS Stationnement CPT | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 13832.4 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|-----------------|------------------------|-----------------------|
| Max coil load | 34.9 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 1307 CFM | BTU/(hr sqft) | 2.5 |
| Max coil CFM | 1307 CFM | Ent. DB / Lvg DB | 70.0 / 94.7 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|------------------------|-------------------|
| Design CFM | 1307 CFM | Fan motor BHP | 0.39 BHP |
| Design CFM/sqft | 0.09 CFM/sqft | Fan motor kW | 0.31 kW |
| | | Fan total static | 2.00 in wg |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 0 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.00 CFM/sqft | | |

Zone Sizing Summary for 44 SS Stationnement CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

Air System Information

Air System Name **44 SS Stationnement CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **13832.4** sqft
 Location **Quebec City Beauport, QC, Canada**

Sizing Calculation 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) |
|------------------|-----------------------------|------------------------------|---------------|----------------------------|--------------------------------|-----------------------------------|----------------------------------|------------------------------|
| SS Stationnement | 1307 | 1307 | 0.09 | 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) |
|------------------|-----------------------------|------------------------------------|-------------------------|------------------------|
| SS Stationnement | 0.0 | January 9:00 | 35.2 | 13832.4 |

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 |
|-------------------------|------------------------|----------------------------|----------------|--------------------|-------------------|----------------|
| SS Stationnement | | | | | | |
| SS Stationnement | 0.0 | January 9:00 | 1307 | 35.2 | 13832.4 | 0.09 |

Air System Heat Balance Summary for 44 SS Stationnement CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

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 | - | - | - | - | 35990 | 0 |
| Plenum Load | - | - | - | - | 0 | 0 |
| Return Fan Load | - | - | - | 1307 CFM | 0 | - |
| Ventilation Load | - | - | - | 0 CFM | 0 | 0 |
| Supply Fan Load | - | - | - | 1307 CFM | -1046 | - |
| Zone Fan Coil Fans Load | - | - | - | - | 0 | - |
| >> Total System Loads | - | - | - | - | 34944 | 0 |
| Central Heating Coil | - | - | - | - | 34944 | - |
| >> Total Conditioning | - | - | - | - | 34944 | 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 | 4355 sqft | - | - | 4355 sqft | 8857 | - |
| 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 | 13832 sqft | - | - | 13832 sqft | 20799 | - |
| Interior Wall Convection | 487 sqft | - | - | 487 sqft | 12 | - |
| Ceiling Convection | 13832 sqft | - | - | 13832 sqft | 979 | - |
| 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% | 4597 | 0 |
| >> Total Zone Loads | - | - | - | - | 35244 | 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 SS Stationnement CPT (In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

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 | 1307 | 400 | - | - |
| Central Heating Coil | Outlet | 94.7 | 0.00026 | 1307 | 400 | 34944 | - |
| Supply Fan | Outlet | 95.5 | 0.00026 | 1307 | 400 | 1046 | - |
| Cold Supply Duct | Outlet | 95.5 | 0.00026 | 1307 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 1307 | 400 | -35990 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 1307 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat Mode | Zone Cond (BTU/hr) | Zone Temp (F) | Zone Airflow (CFM) | CO2 Level (ppm) | Terminal Heating Coil (BTU/hr) | Zone Heating Unit (BTU/hr) |
|------------------|-----------------------------|-------------|--------------------|---------------|--------------------|-----------------|--------------------------------|----------------------------|
| SS Stationnement | -35990 | Heating | -35990 | 70.0 | 1307 | 400 | 0 | 0 |

Air System Sizing Summary for 46 Couloir et SAS CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 11:48 AM

Air System Information

| | |
|--|--|
| Air System Name 46 Couloir et SAS CPT | Number of zones 7 |
| Equipment Class PKG ROOF | Floor Area 2750.4 sqft |
| Air System Type VAV | Location Quebec City Beauport, QC, Canada |

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 |

Central Cooling Coil Sizing Data

| | |
|--|---|
| Total coil load 0.6 Tons | Peak coil load occurs at July 8:00 |
| Total coil load 7.8 MBH | OA DB / WB 70.6 / 65.2 F |
| Sensible coil load 7.8 MBH | Entering DB / WB 75.0 / 53.4 F |
| Coil CFM at peak load 356 CFM | Leaving DB / WB 55.0 / 44.4 F |
| Sum of peak zone CFM 841 CFM | Resulting RH 21 % |
| Sensible heat ratio 1.000 | Design supply temp. 55.0 F |
| CFM/Ton 551.1 | Zone T-stat Check 7 of 7 OK |
| sqft/Ton 4251.9 | Max zone temperature deviation 0.0 F |
| BTU/(hr sqft) 2.8 | |
| Water flow @ 10.0 F rise N/A | |

Preheat Coil Sizing Data

No heating coil loads occurred during this calculation.

Supply Fan Sizing Data

| | |
|---|-------------------------------------|
| Design CFM 749 CFM | Fan motor BHP 0.00 BHP |
| Design CFM occurs at June 8:00 | Fan motor kW 0.00 kW |
| Design CFM/sqft 0.27 CFM/sqft | |
| Sum of peak zone CFM 841 CFM | |
| VAV Fan Diversity 10.9 % | |

Outdoor Ventilation Air Data

| | |
|---------------------------------------|---|
| Design airflow CFM 0 CFM | CFM/person 0.00 CFM/person |
| CFM/sqft 0.00 CFM/sqft | |

Zone Sizing Summary for 46 Couloir et SAS CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

Air System Information

Air System Name **46 Couloir et SAS CPT**
 Equipment Class **PKG ROOF**
 Air System Type **VAV**

Number of zones **7**
 Floor Area **2750.4** sqft
 Location **Quebec City Beauport, 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 | 176 | 2 | 0.27 | 0.0 | - | 0.0 | - | 0 |
| 3E Corridor | 174 | 2 | 0.27 | 0.0 | - | 0.0 | - | 0 |
| 4E Corridor | 250 | 3 | 0.38 | 10.8 | - | 0.0 | - | 0 |
| RDC Corridor | 24 | 0 | 0.05 | 0.0 | - | 0.0 | - | 0 |
| RDC SAS | 186 | 2 | 1.18 | 8.1 | - | 0.0 | - | 0 |
| SS SAS1 | 13 | 0 | 0.27 | 0.0 | - | 0.0 | - | 0 |
| SS SAS2 | 17 | 0 | 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 Corridor | 2.0 | June 8:00 | 4.7 | 654.8 |
| 3E Corridor | 1.9 | June 8:00 | 4.7 | 654.8 |
| 4E Corridor | 2.1 | July 16:00 | 6.7 | 654.8 |
| RDC Corridor | 0.5 | July 19:00 | 0.3 | 496.5 |
| RDC SAS | 3.8 | June 7:00 | 5.0 | 157.9 |
| SS SAS1 | 0.0 | July 0:00 | 0.4 | 49.9 |
| SS SAS2 | 0.0 | July 0:00 | 0.5 | 81.8 |

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 Corridor | | | | | | |
| 2E Corridor | 2.0 | June 8:00 | 176 | 4.7 | 654.8 | 0.27 |
| 3E Corridor | | | | | | |
| 3E Corridor | 1.9 | June 8:00 | 174 | 4.7 | 654.8 | 0.27 |
| 4E Corridor | | | | | | |
| 4E Corridor | 2.1 | July 16:00 | 250 | 6.7 | 654.8 | 0.38 |
| RDC Corridor | | | | | | |
| RDC Corridor | 0.5 | July 19:00 | 24 | 0.3 | 496.5 | 0.05 |
| RDC SAS | | | | | | |
| RDC SAS | 3.8 | June 7:00 | 186 | 5.0 | 157.9 | 1.18 |
| SS SAS1 | | | | | | |
| SS SAS1 | 0.0 | July 0:00 | 13 | 0.4 | 49.9 | 0.27 |
| SS SAS2 | | | | | | |
| SS SAS2 | 0.0 | July 0:00 | 17 | 0.5 | 81.8 | 0.21 |

Air System Heat Balance Summary for 46 Couloir et SAS CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

Table 1. System Loads

| COMPONENT LOADS | DESIGN COOLING - JULY 8:00 | | | DESIGN HEATING | | |
|------------------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 70.6 F / 65.2 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Zone Conditioning | - | 7762 | 1 | - | 11816 | 0 |
| Plenum Load | - | 0 | 0 | - | 0 | 0 |
| Return Fan Load | 356 CFM | 0 | - | 440 CFM | 0 | - |
| Ventilation Load | 0 CFM | 0 | 0 | 0 CFM | 0 | 0 |
| Supply Fan Load | 356 CFM | 0 | - | 440 CFM | 0 | - |
| Zone Fan Coil Fans Load | - | 0 | - | - | 0 | - |
| >> Total System Loads | - | 7762 | 1 | - | 11816 | 0 |
| Central Cooling Coil | - | 7763 | 0 | - | -7060 | 0 |
| Preheat Coil | - | 0 | - | - | 0 | - |
| Terminal Reheat Coils | - | 0 | - | - | 18876 | - |
| >> Total Conditioning | - | 7763 | 0 | - | 11817 | 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 | | |
|----------------------------------|--|-------------------|-----------------|--|-------------------|-----------------|
| | Details | Sensible [BTU/hr] | Latent [BTU/hr] | Details | Sensible [BTU/hr] | Latent [BTU/hr] |
| | OA DB / WB 70.6 F / 65.2 F | | | OA DB / WB -20.0 F / -20.0 F | | |
| Exterior Wall Convection | 778 sqft | 512 | - | 778 sqft | 1993 | - |
| Roof Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Window Convection | 90 sqft | 494 | - | 90 sqft | 989 | - |
| Skylight Convection | 0 sqft | 0 | - | 0 sqft | 0 | - |
| Door Convection | 63 sqft | 630 | - | 63 sqft | 882 | - |
| Floor Convection | 2750 sqft | 1790 | - | 2750 sqft | 1474 | - |
| Interior Wall Convection | 8233 sqft | 3354 | - | 8233 sqft | 2320 | - |
| Ceiling Convection | 2751 sqft | 1434 | - | 2751 sqft | 2987 | - |
| 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 | 75 CFM | 8784 | 0 |
| Miscellaneous Equipment | - | 0 | 0 | - | 0 | 0 |
| Air Internal Energy Change | - | 0 | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | 1232 | 0 | 15% | 2914 | 0 |
| >> Total Zone Loads | - | 9444 | 0 | - | 22343 | 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 Couloir et SAS CPT (In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
Prepared by: Groupe CMI

02/23/2026
11:48 AM

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 | 71.0 | 0.01210 | 0 | 400 | 0 | 0 |
| Vent - Return Mixing | Outlet | 75.0 | 0.00376 | 356 | 400 | - | - |
| Preheat Coil | Outlet | 75.0 | 0.00376 | 356 | 400 | 0 | - |
| Central Cooling Coil | Outlet | 55.0 | 0.00376 | 356 | 400 | 7763 | 0 |
| Supply Fan | Outlet | 55.0 | 0.00376 | 356 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 55.0 | 0.00376 | 356 | 400 | - | - |
| Zone Air | - | 75.0 | 0.00383 | 356 | 400 | 7762 | 1 |
| Return Air | Outlet | 75.0 | 0.00376 | 356 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | 1433 | Cooling | 1433 | 75.0 | 66 | 400 | 0 | 0 |
| 3E Corridor | 1445 | Cooling | 1445 | 75.0 | 66 | 400 | 0 | 0 |
| 4E Corridor | 1190 | Cooling | 1190 | 75.0 | 55 | 400 | 0 | 0 |
| RDC Corridor | 145 | Cooling | 145 | 75.0 | 7 | 400 | 0 | 0 |
| RDC SAS | 3531 | Cooling | 3531 | 75.0 | 162 | 400 | 0 | 0 |
| SS SAS1 | 9 | Cooling | 9 | 75.0 | 0 | 400 | 0 | 0 |
| SS SAS2 | 9 | Cooling | 9 | 75.0 | 0 | 400 | 0 | 0 |

System Psychrometrics for 46 Couloir et SAS CPT (In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
Prepared by: Groupe CMI

02/23/2026
11:48 AM

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 | 69.8 | 0.00026 | 440 | 400 | - | - |
| Preheat Coil | Outlet | 69.8 | 0.00026 | 440 | 400 | 0 | - |
| Central Cooling Coil | Outlet | 55.0 | 0.00026 | 440 | 400 | 7060 | 0 |
| Supply Fan | Outlet | 55.0 | 0.00026 | 440 | 400 | 0 | - |
| Cold Supply Duct | Outlet | 55.0 | 0.00026 | 440 | 400 | - | - |
| Zone Air | - | 63.6 | 0.00026 | 440 | 400 | -11816 | 0 |
| Return Air | Outlet | 69.8 | 0.00026 | 440 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | -22919 | Heating | 7 | 58.8 | 2 | 400 | 0 | 0 |
| 3E Corridor | -22557 | Heating | 7 | 59.0 | 2 | 400 | 0 | 0 |
| 4E Corridor | -7017 | Heating | -6780 | 69.9 | 250 | 400 | 10820 | 0 |
| RDC Corridor | -1686 | Heating | 4 | 68.5 | 0 | 400 | 0 | 0 |
| RDC SAS | -5178 | Heating | -5055 | 69.9 | 186 | 400 | 8056 | 0 |
| SS SAS1 | -2692 | Heating | 0 | 54.9 | 0 | 400 | 0 | 0 |
| SS SAS2 | -4728 | Heating | -1 | 52.0 | 0 | 400 | 0 | 0 |

Air System Sizing Summary for 48 3E ESC2 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

Air System Information

| | | | |
|-----------------------|-----------------------|-----------------------|---|
| Air System Name | 48 3E ESC2 CPT | Number of zones | 1 |
| Equipment Class | SPLT AHU | Floor Area | 168.9 sqft |
| Air System Type | SZCAV | Location | Quebec City Beauport, QC, Canada |

Sizing Calculation Information

| | | | |
|--------------------------|-------------------|------------------------|------------------------------------|
| Calculation Months | Jan to Dec | Zone CFM Sizing | Sum of space airflow rates |
| Sizing Data | Calculated | Space CFM Sizing | Individual peak space loads |

Central Heating Coil Sizing Data

| | | | |
|----------------------------------|----------------|------------------------|-----------------------|
| Max coil load | 5.1 MBH | Load occurs at | Design Heating |
| Coil CFM at Design Heating | 193 CFM | BTU/(hr sqft) | 30.4 |
| Max coil CFM | 193 CFM | Ent. DB / Lvg DB | 70.0 / 94.6 F |
| Water flow @ 20.0 F drop | N/A | | |

Supply Fan Sizing Data

| | | | |
|-----------------------|----------------------|------------------------|-------------------|
| Design CFM | 193 CFM | Fan motor BHP | 0.06 BHP |
| Design CFM/sqft | 1.14 CFM/sqft | Fan motor kW | 0.05 kW |
| | | Fan total static | 2.00 in wg |

Outdoor Ventilation Air Data

| | | | |
|--------------------------|----------------------|------------------|------------------------|
| Design airflow CFM | 0 CFM | CFM/person | 0.00 CFM/person |
| CFM/sqft | 0.00 CFM/sqft | | |

Zone Sizing Summary for 48 3E ESC2 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

Air System Information

Air System Name **48 3E ESC2 CPT**
 Equipment Class **SPLT AHU**
 Air System Type **SZCAV**

Number of zones **1**
 Floor Area **168.9** sqft
 Location **Quebec City Beauport, QC, Canada**

Sizing Calculation 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 | 193 | 193 | 1.14 | 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 | 0.0 | September 9:00 | 5.2 | 168.9 |

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 ESC2 | | | | | | |
| 3E ESC2 | 0.0 | September 9:00 | 193 | 5.2 | 168.9 | 1.14 |

Air System Heat Balance Summary for 48 3E ESC2 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

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 | - | - | - | - | 5287 | 0 |
| Plenum Load | - | - | - | - | 0 | 0 |
| Return Fan Load | - | - | - | 193 CFM | 0 | - |
| Ventilation Load | - | - | - | 0 CFM | 0 | 0 |
| Supply Fan Load | - | - | - | 193 CFM | -154 | - |
| Zone Fan Coil Fans Load | - | - | - | - | 0 | - |
| >> Total System Loads | - | - | - | - | 5133 | 0 |
| Central Heating Coil | - | - | - | - | 5133 | - |
| >> Total Conditioning | - | - | - | - | 5133 | 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 | 221 sqft | - | - | 221 sqft | 759 | - |
| Roof Convection | 0 sqft | - | - | 0 sqft | 0 | - |
| Window Convection | 24 sqft | - | - | 24 sqft | 326 | - |
| Skylight Convection | 0 sqft | - | - | 0 sqft | 0 | - |
| Door Convection | 0 sqft | - | - | 0 sqft | 0 | - |
| Floor Convection | 169 sqft | - | - | 169 sqft | 168 | - |
| Interior Wall Convection | 245 sqft | - | - | 245 sqft | 181 | - |
| Ceiling Convection | 169 sqft | - | - | 169 sqft | 220 | - |
| Overhead Lighting Convection | - | - | - | 0 W | 0 | - |
| Task Lighting Convection | - | - | - | 0 W | 0 | - |
| Electric Equipment Convection | - | - | - | 0 W | 0 | - |
| People Convection | - | - | - | 0 | 0 | 0 |
| Infiltration | - | - | - | 24 CFM | 2862 | 0 |
| Miscellaneous Equipment | - | - | - | - | 0 | 0 |
| Air Internal Energy Change | - | - | - | - | 0 | 0 |
| Safety Factor | 15% / 15% | - | - | 15% | 677 | 0 |
| >> Total Zone Loads | - | - | - | - | 5192 | 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 3E ESC2 CPT (In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

11:48 AM

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 | 193 | 400 | - | - |
| Central Heating Coil | Outlet | 94.6 | 0.00026 | 193 | 400 | 5133 | - |
| Supply Fan | Outlet | 95.4 | 0.00026 | 193 | 400 | 154 | - |
| Cold Supply Duct | Outlet | 95.4 | 0.00026 | 193 | 400 | - | - |
| Zone Air | - | 70.0 | 0.00026 | 193 | 400 | -5287 | 0 |
| Return Air | Outlet | 70.0 | 0.00026 | 193 | 400 | - | - |

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.079 BTU/(hr-CFM-F)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4740.9 BTU/(hr-CFM)

Site Altitude = 33.0 ft

TABLE 2: ZONE DATA

| Zone Name | Zone Sensible Load (BTU/hr) | T-stat 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 | -5287 | Heating | -5287 | 70.0 | 193 | 400 | 0 | 0 |

Annual Cost Summary

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 12:06 PM

Table 1. Annual Costs

| Component | a) Alternative REF (\$) | b) Alternative CPT (\$) |
|---------------------------|-------------------------|-------------------------|
| Air System Fans | 369 | 369 |
| Cooling | 353 | 264 |
| Heating | 23,826 | 11,666 |
| Pumps | 0 | 0 |
| Heat Rejection Fans | 0 | 0 |
| HVAC Sub-Total | 24,548 | 12,299 |
| Lights | 0 | 0 |
| Electric Equipment | 0 | 0 |
| Misc. Electric | 0 | 0 |
| Misc. Fuel Use | 0 | 0 |
| Non-HVAC Sub-Total | 0 | 0 |
| Grand Total | 24,548 | 12,299 |

Table 2. Annual Cost per Unit Floor Area

| Component | a) Alternative REF (\$/sqft) | b) Alternative CPT (\$/sqft) |
|---------------------------|------------------------------|------------------------------|
| Air System Fans | 0.008 | 0.008 |
| Cooling | 0.008 | 0.006 |
| Heating | 0.512 | 0.251 |
| Pumps | 0.000 | 0.000 |
| Heat Rejection Fans | 0.000 | 0.000 |
| HVAC Sub-Total | 0.527 | 0.264 |
| 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 | 0.527 | 0.264 |
| Gross Floor Area (sqft) | 46561.5 | 46561.5 |
| Modeled Floor Area (sqft) | 46561.5 | 46561.5 |

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 | 1.5 | 3.0 |
| Cooling | 1.4 | 2.2 |
| Heating | 97.1 | 94.9 |
| 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: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 12:06 PM

Table 1. Annual Costs

| Component | a) Alternative REF (\$) | b) Alternative CPT (\$) |
|----------------------------|-------------------------|-------------------------|
| HVAC Components | | |
| Electric | 24,550 | 12,299 |
| 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 | 24,550 | 12,299 |
| 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 | 24,550 | 12,299 |

Table 2. Annual Energy Consumption

| Component | a) Alternative REF | b) Alternative CPT |
|----------------------------|--------------------|--------------------|
| HVAC Components | | |
| Electric (kWh) | 251,191 | 125,842 |
| 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) | 251,191 | 125,842 |
| 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: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 12:06 PM

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 | 0.527 | 0.264 |
| 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 | 0.527 | 0.264 |
| 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 | 0.527 | 0.264 |
| Gross Floor Area (sqft) | 46561.5 | 46561.5 |
| Modeled Floor Area (sqft) | 46561.5 | 46561.5 |

Note: Values in this table are calculated using the Gross Floor Area.

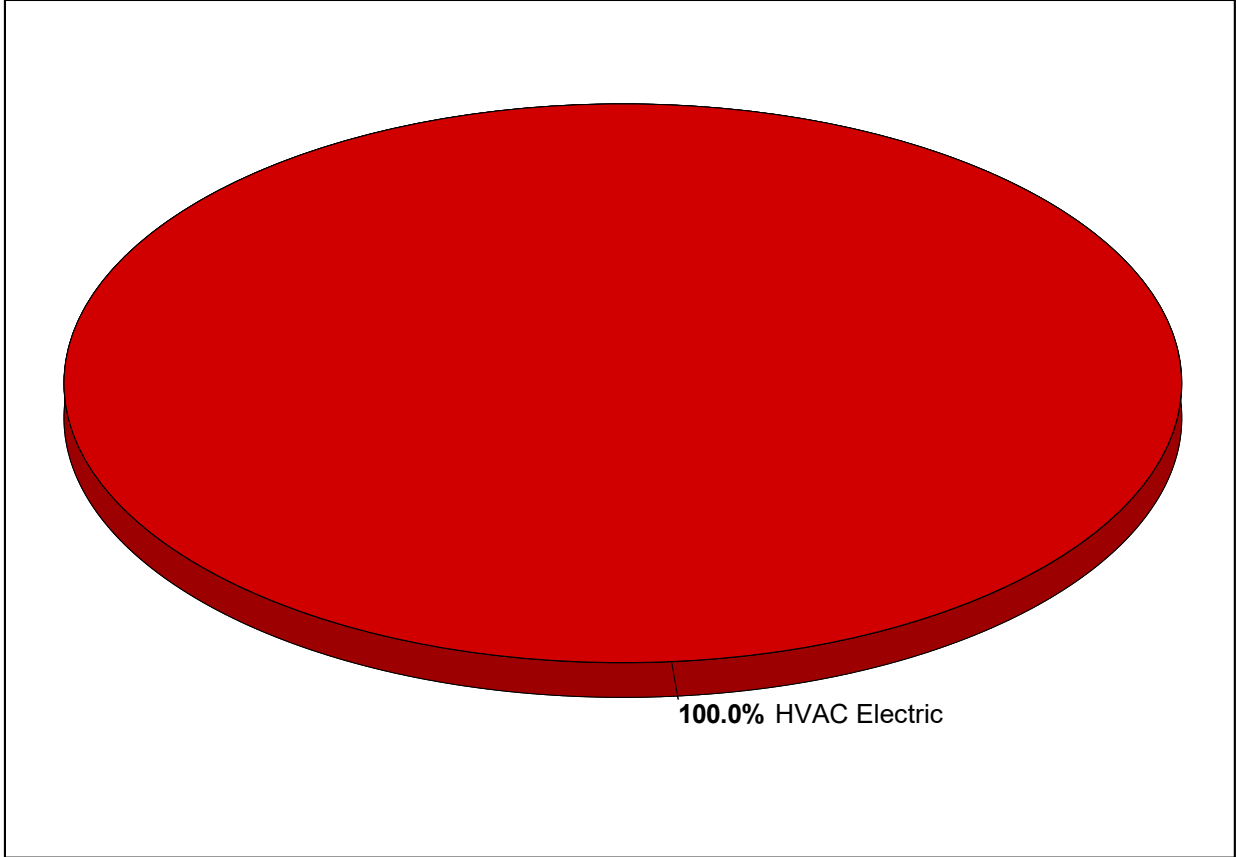
Table 5. Component Cost as a Percentage of Total Cost

| 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: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 12:06 PM



1. Annual Costs

| Component | Annual Cost (\$) | (\$/sqft) | Percent of Total (%) |
|----------------------------|------------------|--------------|----------------------|
| HVAC Components | | | |
| Electric | 24,550 | 0.527 | 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 | 24,550 | 0.527 | 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 | 24,550 | 0.527 | 100.0 |

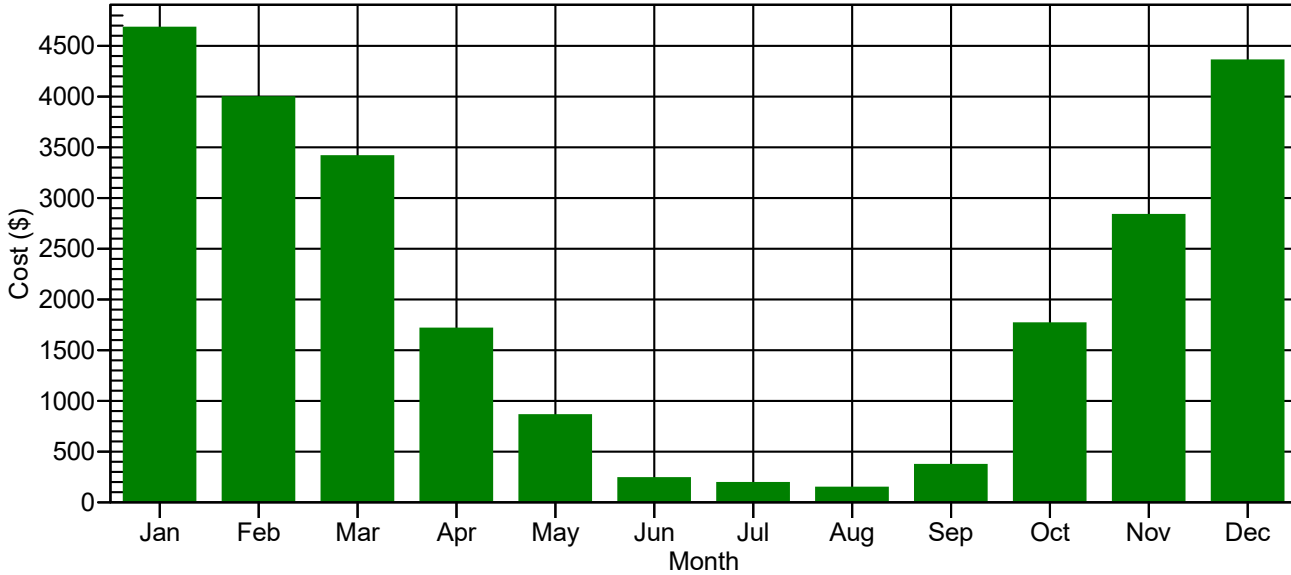
Note: Cost per unit floor area is based on the gross building floor area.

Gross Floor Area **46,561.5** sqft
 Modeled Floor Area **46,561.5** sqft

Monthly Energy Costs - a) Alternative REF

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 12:06 PM



1. HVAC Costs

| Month | Electric (\$) | Natural Gas (\$) | Fuel Oil (\$) | Propane (\$) | Remote Hot Water (\$) | Remote Steam (\$) | Remote Chilled Water (\$) |
|--------------|---------------|------------------|---------------|--------------|-----------------------|-------------------|---------------------------|
| January | 4,679 | 0 | 0 | 0 | 0 | 0 | 0 |
| February | 3,993 | 0 | 0 | 0 | 0 | 0 | 0 |
| March | 3,412 | 0 | 0 | 0 | 0 | 0 | 0 |
| April | 1,712 | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 859 | 0 | 0 | 0 | 0 | 0 | 0 |
| June | 238 | 0 | 0 | 0 | 0 | 0 | 0 |
| July | 190 | 0 | 0 | 0 | 0 | 0 | 0 |
| August | 144 | 0 | 0 | 0 | 0 | 0 | 0 |
| September | 368 | 0 | 0 | 0 | 0 | 0 | 0 |
| October | 1,764 | 0 | 0 | 0 | 0 | 0 | 0 |
| November | 2,833 | 0 | 0 | 0 | 0 | 0 | 0 |
| December | 4,356 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 24,550 | 0 | 0 | 0 | 0 | 0 | 0 |

2. Non-HVAC Costs

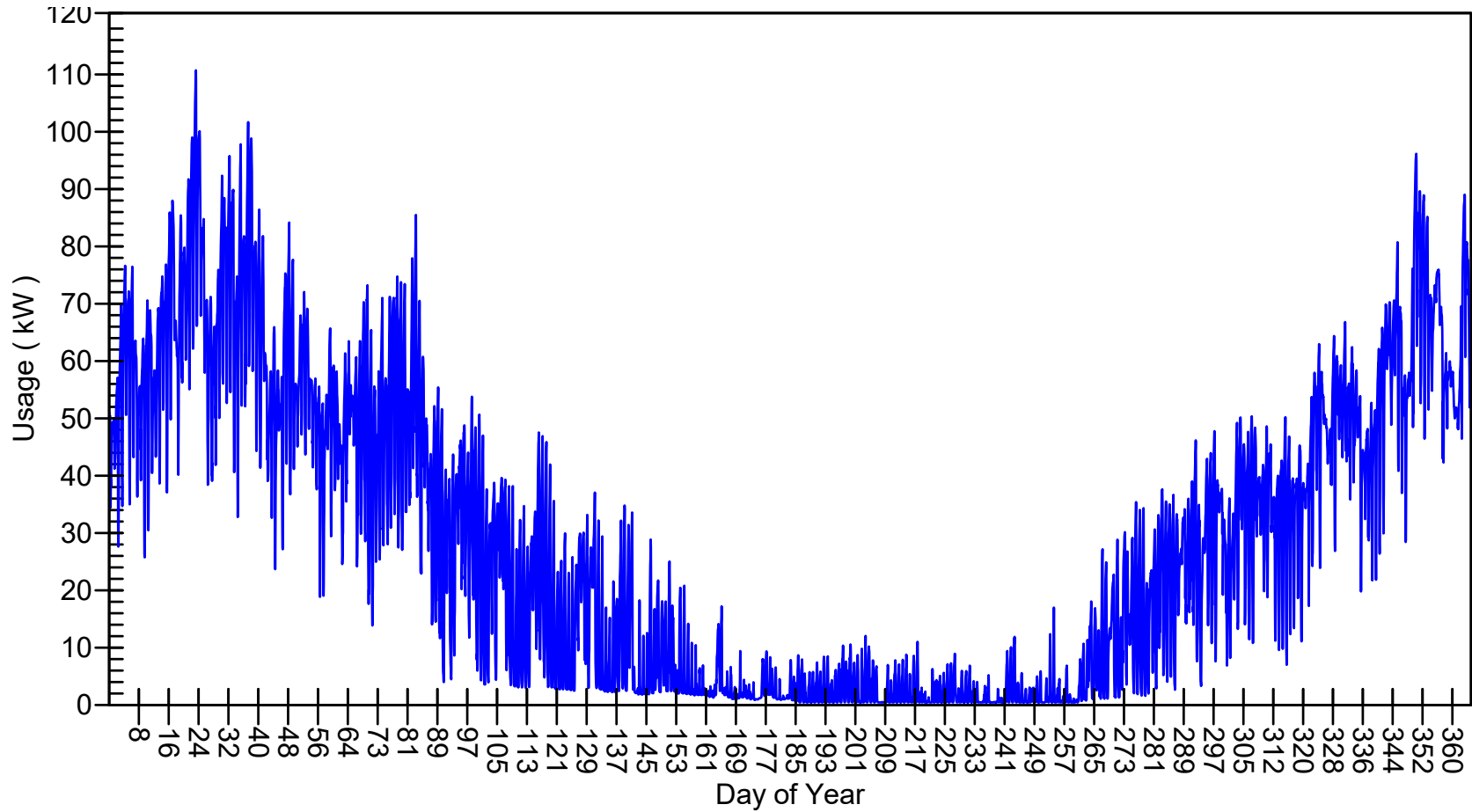
| Month | Electric (\$) | Natural Gas (\$) | Fuel Oil (\$) | Propane (\$) | Remote Hot Water (\$) | Remote Steam (\$) |
|--------------|---------------|------------------|---------------|--------------|-----------------------|-------------------|
| January | 0 | 0 | 0 | 0 | 0 | 0 |
| February | 0 | 0 | 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

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
Prepared by: Groupe CMI

02/23/2026
12:06 PM

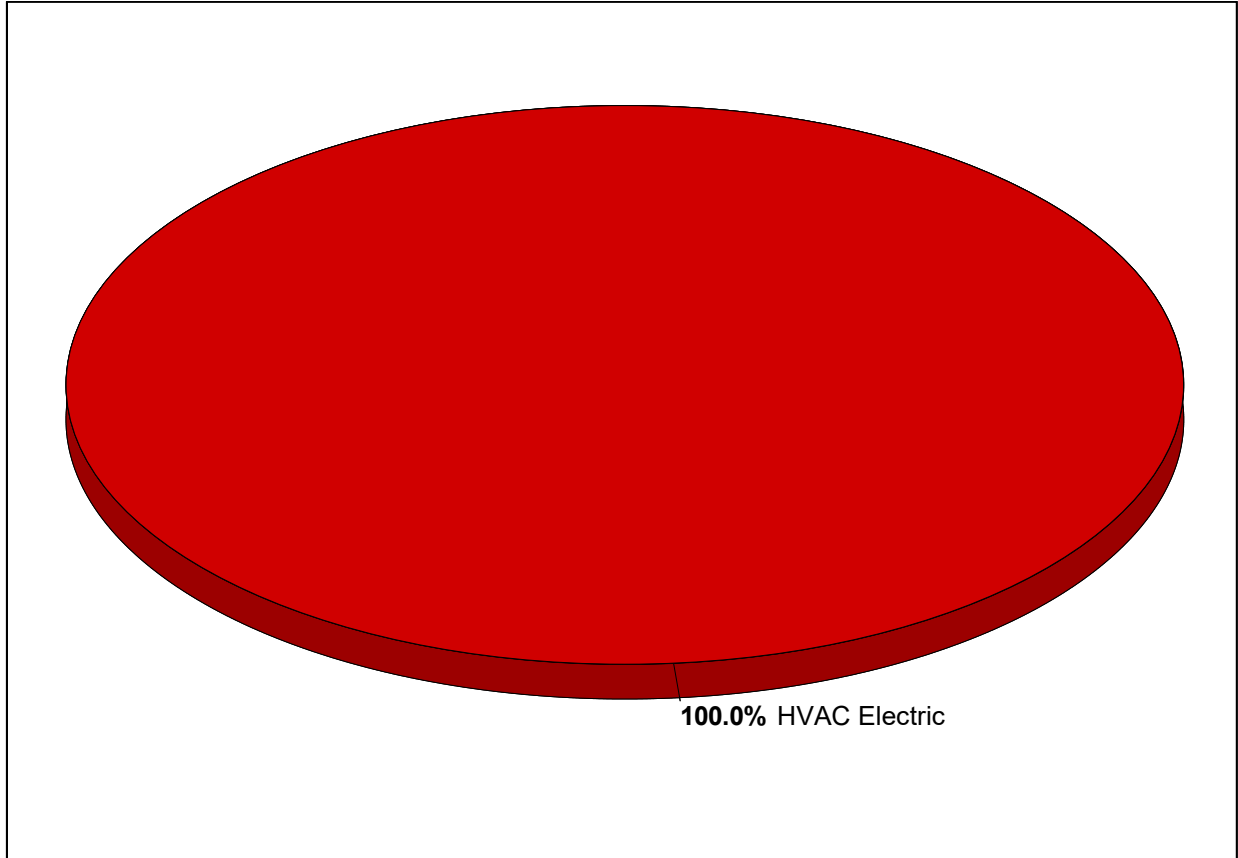
Electric Use Profiles - Sunday, January 1 (day 1) thru Sunday, December 31 (day 365)



Annual Energy Costs - b) Alternative CPT

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC
 Prepared by: Groupe CMI

02/23/2026
 12:06 PM



1. Annual Costs

| Component | Annual Cost (\$) | (\$/sqft) | Percent of Total (%) |
|----------------------------|------------------|--------------|----------------------|
| HVAC Components | | | |
| Electric | 12,299 | 0.264 | 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 | 12,299 | 0.264 | 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 | 12,299 | 0.264 | 100.0 |

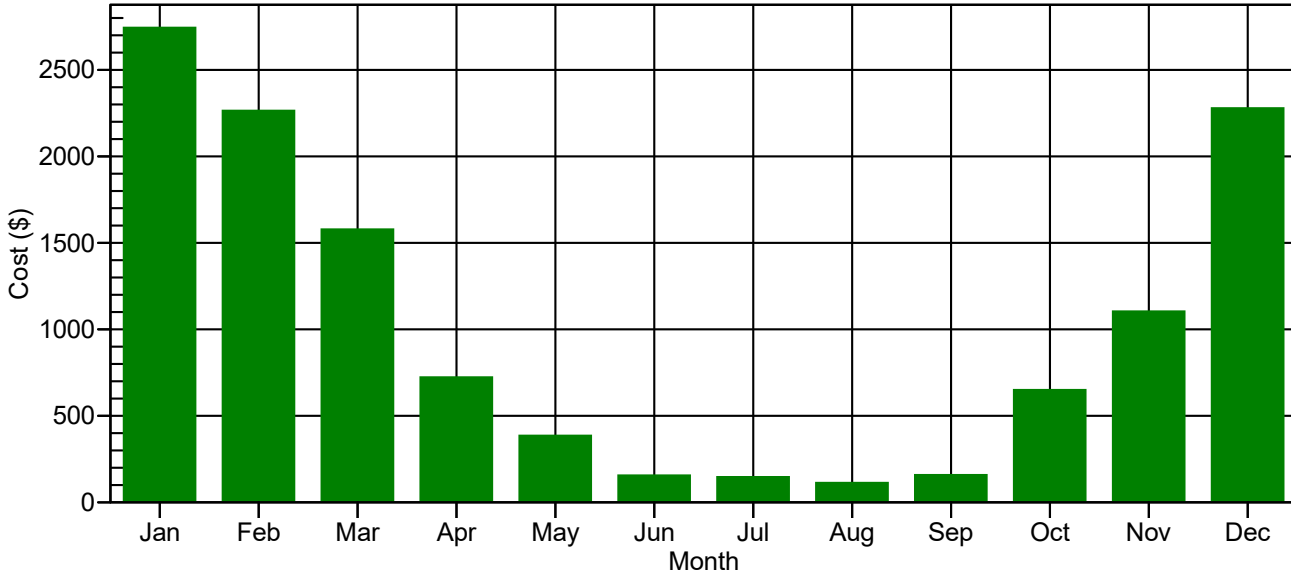
Note: Cost per unit floor area is based on the gross building floor area.

Gross Floor Area **46,561.5** sqft
 Modeled Floor Area **46,561.5** sqft

Monthly Energy Costs - b) Alternative CPT

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
 Prepared by: Groupe CMI

02/23/2026
 12:06 PM



1. HVAC Costs

| Month | Electric (\$) | Natural Gas (\$) | Fuel Oil (\$) | Propane (\$) | Remote Hot Water (\$) | Remote Steam (\$) | Remote Chilled Water (\$) |
|--------------|---------------|------------------|---------------|--------------|-----------------------|-------------------|---------------------------|
| January | 2,745 | 0 | 0 | 0 | 0 | 0 | 0 |
| February | 2,264 | 0 | 0 | 0 | 0 | 0 | 0 |
| March | 1,578 | 0 | 0 | 0 | 0 | 0 | 0 |
| April | 722 | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 385 | 0 | 0 | 0 | 0 | 0 | 0 |
| June | 155 | 0 | 0 | 0 | 0 | 0 | 0 |
| July | 146 | 0 | 0 | 0 | 0 | 0 | 0 |
| August | 112 | 0 | 0 | 0 | 0 | 0 | 0 |
| September | 158 | 0 | 0 | 0 | 0 | 0 | 0 |
| October | 650 | 0 | 0 | 0 | 0 | 0 | 0 |
| November | 1,104 | 0 | 0 | 0 | 0 | 0 | 0 |
| December | 2,279 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 12,299 | 0 | 0 | 0 | 0 | 0 | 0 |

2. Non-HVAC Costs

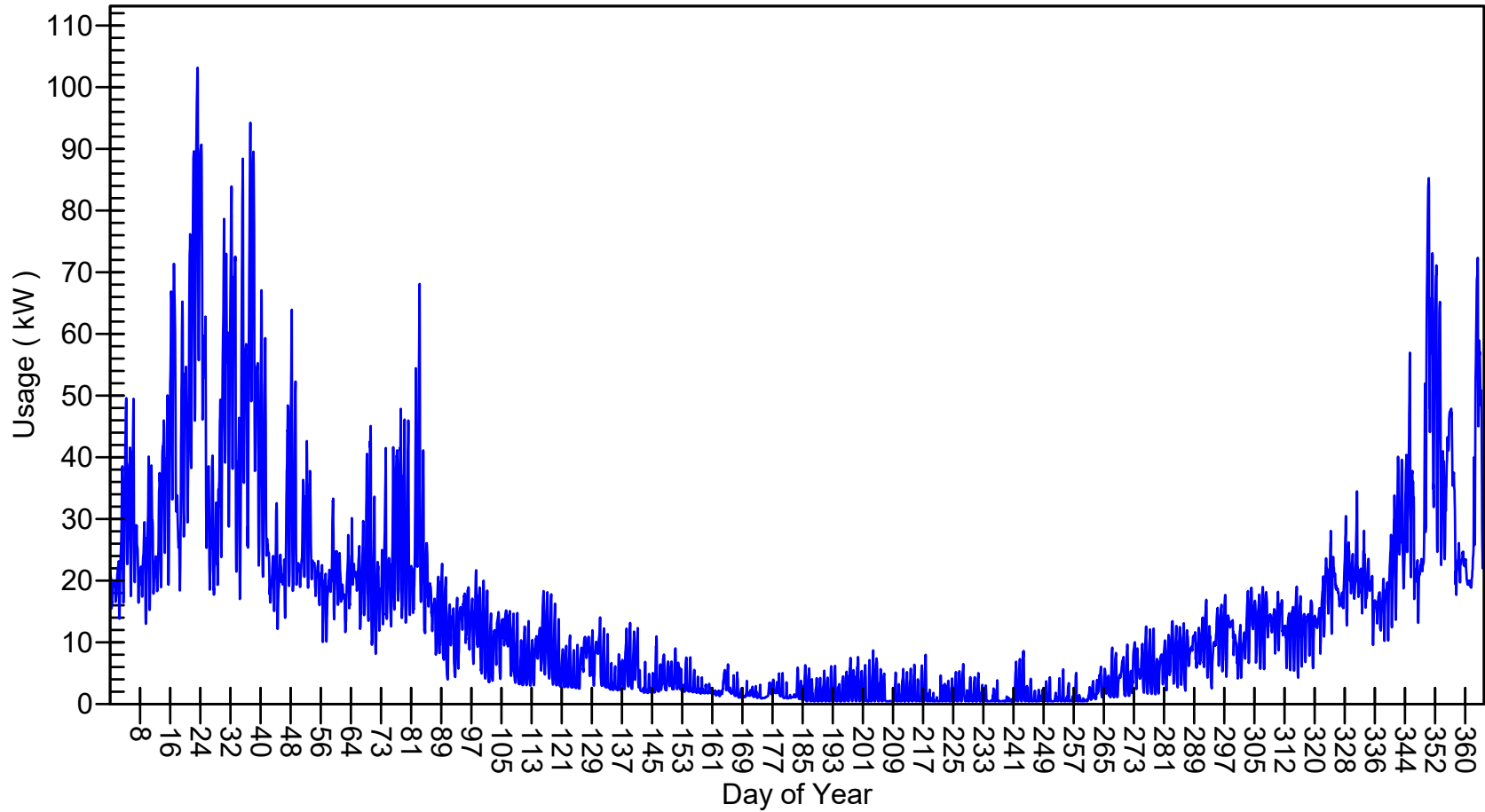
| Month | Electric (\$) | Natural Gas (\$) | Fuel Oil (\$) | Propane (\$) | Remote Hot Water (\$) | Remote Steam (\$) |
|--------------|---------------|------------------|---------------|--------------|-----------------------|-------------------|
| January | 0 | 0 | 0 | 0 | 0 | 0 |
| February | 0 | 0 | 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: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...
Prepared by: Groupe CMI

02/23/2026
12:06 PM

Electric Use Profiles - Sunday, January 1 (day 1) thru Sunday, December 31 (day 365)



Monthly Simulation Results for 01 2E x 8 Log REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québec, QC

02/23/2026

Prepared by: Groupe CMI

12:06 PM

Air System Simulation Results (Table 1) :

| Month | Central Cooling Coil Load (kBTU) | Central Unit Clg Input (kWh) | Central Heating Coil Load (kBTU) | Central Heating Coil Input (kWh) | Supply Fan (kWh) | Air-to-Air Energy Recovery (kWh) | Lighting (kWh) |
|--------------|----------------------------------|------------------------------|----------------------------------|----------------------------------|------------------|----------------------------------|----------------|
| January | 0 | 0 | 34888 | 10225 | 0 | 0 | 0 |
| February | 0 | 0 | 29600 | 8675 | 0 | 0 | 0 |
| March | 0 | 0 | 24732 | 7248 | 0 | 0 | 0 |
| April | 0 | 0 | 11417 | 3346 | 0 | 0 | 0 |
| May | 43 | 3 | 5025 | 1473 | 0 | 0 | 0 |
| June | 614 | 36 | 628 | 184 | 0 | 0 | 0 |
| July | 7051 | 392 | 0 | 0 | 0 | 0 | 0 |
| August | 5084 | 281 | 0 | 0 | 0 | 0 | 0 |
| September | 1066 | 59 | 1985 | 582 | 0 | 0 | 0 |
| October | 0 | 0 | 12663 | 3711 | 0 | 0 | 0 |
| November | 0 | 0 | 21029 | 6163 | 0 | 0 | 0 |
| December | 0 | 0 | 32940 | 9654 | 0 | 0 | 0 |
| Total | 13858 | 770 | 174907 | 51260 | 0 | 0 | 0 |

Air System Simulation Results (Table 2) :

| Month | Electric Equipment (kWh) |
|--------------|--------------------------|
| January | 0 |
| February | 0 |
| March | 0 |
| April | 0 |
| May | 0 |
| June | 0 |
| July | 0 |
| August | 0 |
| September | 0 |
| October | 0 |
| November | 0 |
| December | 0 |
| Total | 0 |

Monthly Simulation Results for 03 3E 301 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 PM

Air System Simulation Results (Table 1) :

| Month | Central Cooling Coil Load (kBTU) | Central Unit Clg Input (kWh) | Central Heating Coil Load (kBTU) | Central Heating Coil Input (kWh) | Supply Fan (kWh) | Air-to-Air Energy Recovery (kWh) | Lighting (kWh) |
|--------------|----------------------------------|------------------------------|----------------------------------|----------------------------------|------------------|----------------------------------|----------------|
| January | 0 | 0 | 3275 | 960 | 0 | 0 | 0 |
| February | 0 | 0 | 2782 | 815 | 0 | 0 | 0 |
| March | 0 | 0 | 2307 | 676 | 0 | 0 | 0 |
| April | 0 | 0 | 1055 | 309 | 0 | 0 | 0 |
| May | 1 | 0 | 436 | 128 | 0 | 0 | 0 |
| June | 60 | 3 | 38 | 11 | 0 | 0 | 0 |
| July | 873 | 47 | 0 | 0 | 0 | 0 | 0 |
| August | 687 | 37 | 0 | 0 | 0 | 0 | 0 |
| September | 183 | 10 | 157 | 46 | 0 | 0 | 0 |
| October | 0 | 0 | 1161 | 340 | 0 | 0 | 0 |
| November | 0 | 0 | 1980 | 580 | 0 | 0 | 0 |
| December | 0 | 0 | 3172 | 930 | 0 | 0 | 0 |
| Total | 1803 | 97 | 16363 | 4795 | 0 | 0 | 0 |

Air System Simulation Results (Table 2) :

| Month | Electric Equipment (kWh) |
|--------------|--------------------------|
| January | 0 |
| February | 0 |
| March | 0 |
| April | 0 |
| May | 0 |
| June | 0 |
| July | 0 |
| August | 0 |
| September | 0 |
| October | 0 |
| November | 0 |
| December | 0 |
| Total | 0 |

Monthly Simulation Results for 05 3E 302 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 PM

Air System Simulation Results (Table 1) :

| Month | Central Cooling Coil Load (kBTU) | Central Unit Clg Input (kWh) | Central Heating Coil Load (kBTU) | Central Heating Coil Input (kWh) | Supply Fan (kWh) | Air-to-Air Energy Recovery (kWh) | Lighting (kWh) |
|--------------|----------------------------------|------------------------------|----------------------------------|----------------------------------|------------------|----------------------------------|----------------|
| January | 0 | 0 | 2650 | 776 | 0 | 0 | 0 |
| February | 0 | 0 | 2253 | 660 | 0 | 0 | 0 |
| March | 0 | 0 | 1881 | 551 | 0 | 0 | 0 |
| April | 0 | 0 | 878 | 257 | 0 | 0 | 0 |
| May | 0 | 0 | 378 | 111 | 0 | 0 | 0 |
| June | 40 | 2 | 37 | 11 | 0 | 0 | 0 |
| July | 673 | 37 | 0 | 0 | 0 | 0 | 0 |
| August | 523 | 28 | 0 | 0 | 0 | 0 | 0 |
| September | 133 | 7 | 137 | 40 | 0 | 0 | 0 |
| October | 0 | 0 | 951 | 279 | 0 | 0 | 0 |
| November | 0 | 0 | 1602 | 470 | 0 | 0 | 0 |
| December | 0 | 0 | 2552 | 748 | 0 | 0 | 0 |
| Total | 1369 | 75 | 13319 | 3903 | 0 | 0 | 0 |

Air System Simulation Results (Table 2) :

| Month | Electric Equipment (kWh) |
|--------------|--------------------------|
| January | 0 |
| February | 0 |
| March | 0 |
| April | 0 |
| May | 0 |
| June | 0 |
| July | 0 |
| August | 0 |
| September | 0 |
| October | 0 |
| November | 0 |
| December | 0 |
| Total | 0 |

Monthly Simulation Results for 07 3E 303 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 PM

Air System Simulation Results (Table 1) :

| Month | Central Cooling Coil Load (kBTU) | Central Unit Clg Input (kWh) | Central Heating Coil Load (kBTU) | Central Heating Coil Input (kWh) | Supply Fan (kWh) | Air-to-Air Energy Recovery (kWh) | Lighting (kWh) |
|--------------|----------------------------------|------------------------------|----------------------------------|----------------------------------|------------------|----------------------------------|----------------|
| January | 0 | 0 | 3204 | 939 | 0 | 0 | 0 |
| February | 0 | 0 | 2722 | 798 | 0 | 0 | 0 |
| March | 0 | 0 | 2255 | 661 | 0 | 0 | 0 |
| April | 0 | 0 | 1028 | 301 | 0 | 0 | 0 |
| May | 1 | 0 | 427 | 125 | 0 | 0 | 0 |
| June | 62 | 3 | 38 | 11 | 0 | 0 | 0 |
| July | 850 | 46 | 0 | 0 | 0 | 0 | 0 |
| August | 676 | 36 | 0 | 0 | 0 | 0 | 0 |
| September | 187 | 10 | 153 | 45 | 0 | 0 | 0 |
| October | 0 | 0 | 1133 | 332 | 0 | 0 | 0 |
| November | 0 | 0 | 1938 | 568 | 0 | 0 | 0 |
| December | 0 | 0 | 3109 | 911 | 0 | 0 | 0 |
| Total | 1776 | 96 | 16007 | 4691 | 0 | 0 | 0 |

Air System Simulation Results (Table 2) :

| Month | Electric Equipment (kWh) |
|--------------|--------------------------|
| January | 0 |
| February | 0 |
| March | 0 |
| April | 0 |
| May | 0 |
| June | 0 |
| July | 0 |
| August | 0 |
| September | 0 |
| October | 0 |
| November | 0 |
| December | 0 |
| Total | 0 |

Monthly Simulation Results for 09 3E 304 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 PM

Air System Simulation Results (Table 1) :

| Month | Central Cooling Coil Load (kBTU) | Central Unit Clg Input (kWh) | Central Heating Coil Load (kBTU) | Central Heating Coil Input (kWh) | Supply Fan (kWh) | Air-to-Air Energy Recovery (kWh) | Lighting (kWh) |
|--------------|----------------------------------|------------------------------|----------------------------------|----------------------------------|------------------|----------------------------------|----------------|
| January | 0 | 0 | 4983 | 1460 | 0 | 0 | 0 |
| February | 0 | 0 | 4237 | 1242 | 0 | 0 | 0 |
| March | 0 | 0 | 3451 | 1011 | 0 | 0 | 0 |
| April | 8 | 0 | 1624 | 476 | 0 | 0 | 0 |
| May | 43 | 2 | 782 | 229 | 0 | 0 | 0 |
| June | 275 | 15 | 117 | 34 | 0 | 0 | 0 |
| July | 1466 | 79 | 0 | 0 | 0 | 0 | 0 |
| August | 1265 | 68 | 0 | 0 | 0 | 0 | 0 |
| September | 488 | 26 | 302 | 88 | 0 | 0 | 0 |
| October | 11 | 1 | 1781 | 522 | 0 | 0 | 0 |
| November | 0 | 0 | 3007 | 881 | 0 | 0 | 0 |
| December | 0 | 0 | 4864 | 1425 | 0 | 0 | 0 |
| Total | 3556 | 191 | 25148 | 7370 | 0 | 0 | 0 |

Air System Simulation Results (Table 2) :

| Month | Electric Equipment (kWh) |
|--------------|--------------------------|
| January | 0 |
| February | 0 |
| March | 0 |
| April | 0 |
| May | 0 |
| June | 0 |
| July | 0 |
| August | 0 |
| September | 0 |
| October | 0 |
| November | 0 |
| December | 0 |
| Total | 0 |

Monthly Simulation Results for 11 3E 305 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 PM

Air System Simulation Results (Table 1) :

| Month | Central Cooling Coil Load (kBTU) | Central Unit Clg Input (kWh) | Central Heating Coil Load (kBTU) | Central Heating Coil Input (kWh) | Supply Fan (kWh) | Air-to-Air Energy Recovery (kWh) | Lighting (kWh) |
|--------------|----------------------------------|------------------------------|----------------------------------|----------------------------------|------------------|----------------------------------|----------------|
| January | 0 | 0 | 5648 | 1655 | 0 | 0 | 0 |
| February | 0 | 0 | 4785 | 1402 | 0 | 0 | 0 |
| March | 0 | 0 | 3975 | 1165 | 0 | 0 | 0 |
| April | 17 | 1 | 1892 | 554 | 0 | 0 | 0 |
| May | 99 | 5 | 867 | 254 | 0 | 0 | 0 |
| June | 342 | 18 | 116 | 34 | 0 | 0 | 0 |
| July | 1332 | 73 | 0 | 0 | 0 | 0 | 0 |
| August | 1014 | 55 | 0 | 0 | 0 | 0 | 0 |
| September | 304 | 16 | 353 | 104 | 0 | 0 | 0 |
| October | 0 | 0 | 2092 | 613 | 0 | 0 | 0 |
| November | 0 | 0 | 3410 | 999 | 0 | 0 | 0 |
| December | 0 | 0 | 5313 | 1557 | 0 | 0 | 0 |
| Total | 3109 | 169 | 28451 | 8338 | 0 | 0 | 0 |

Air System Simulation Results (Table 2) :

| Month | Electric Equipment (kWh) |
|--------------|--------------------------|
| January | 0 |
| February | 0 |
| March | 0 |
| April | 0 |
| May | 0 |
| June | 0 |
| July | 0 |
| August | 0 |
| September | 0 |
| October | 0 |
| November | 0 |
| December | 0 |
| Total | 0 |

Monthly Simulation Results for 13 3E 306 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 PM

Air System Simulation Results (Table 1) :

| Month | Central Cooling Coil Load (kBTU) | Central Unit Clg Input (kWh) | Central Heating Coil Load (kBTU) | Central Heating Coil Input (kWh) | Supply Fan (kWh) | Air-to-Air Energy Recovery (kWh) | Lighting (kWh) |
|--------------|----------------------------------|------------------------------|----------------------------------|----------------------------------|------------------|----------------------------------|----------------|
| January | 0 | 0 | 3011 | 883 | 0 | 0 | 0 |
| February | 0 | 0 | 2551 | 748 | 0 | 0 | 0 |
| March | 0 | 0 | 2204 | 646 | 0 | 0 | 0 |
| April | 0 | 0 | 1057 | 310 | 0 | 0 | 0 |
| May | 6 | 0 | 428 | 125 | 0 | 0 | 0 |
| June | 45 | 3 | 40 | 12 | 0 | 0 | 0 |
| July | 534 | 31 | 0 | 0 | 0 | 0 | 0 |
| August | 314 | 18 | 0 | 0 | 0 | 0 | 0 |
| September | 34 | 2 | 176 | 52 | 0 | 0 | 0 |
| October | 0 | 0 | 1164 | 341 | 0 | 0 | 0 |
| November | 0 | 0 | 1852 | 543 | 0 | 0 | 0 |
| December | 0 | 0 | 2771 | 812 | 0 | 0 | 0 |
| Total | 933 | 53 | 15256 | 4471 | 0 | 0 | 0 |

Air System Simulation Results (Table 2) :

| Month | Electric Equipment (kWh) |
|--------------|--------------------------|
| January | 0 |
| February | 0 |
| March | 0 |
| April | 0 |
| May | 0 |
| June | 0 |
| July | 0 |
| August | 0 |
| September | 0 |
| October | 0 |
| November | 0 |
| December | 0 |
| Total | 0 |

Monthly Simulation Results for 15 3E 307 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 PM

Air System Simulation Results (Table 1) :

| Month | Central Cooling Coil Load (kBTU) | Central Unit Clg Input (kWh) | Central Heating Coil Load (kBTU) | Central Heating Coil Input (kWh) | Supply Fan (kWh) | Air-to-Air Energy Recovery (kWh) | Lighting (kWh) |
|--------------|----------------------------------|------------------------------|----------------------------------|----------------------------------|------------------|----------------------------------|----------------|
| January | 0 | 0 | 3776 | 1107 | 0 | 0 | 0 |
| February | 0 | 0 | 3194 | 936 | 0 | 0 | 0 |
| March | 0 | 0 | 2739 | 803 | 0 | 0 | 0 |
| April | 0 | 0 | 1285 | 377 | 0 | 0 | 0 |
| May | 9 | 1 | 502 | 147 | 0 | 0 | 0 |
| June | 64 | 4 | 43 | 13 | 0 | 0 | 0 |
| July | 665 | 38 | 0 | 0 | 0 | 0 | 0 |
| August | 395 | 22 | 0 | 0 | 0 | 0 | 0 |
| September | 45 | 3 | 208 | 61 | 0 | 0 | 0 |
| October | 0 | 0 | 1440 | 422 | 0 | 0 | 0 |
| November | 0 | 0 | 2315 | 679 | 0 | 0 | 0 |
| December | 0 | 0 | 3478 | 1019 | 0 | 0 | 0 |
| Total | 1177 | 67 | 18981 | 5563 | 0 | 0 | 0 |

Air System Simulation Results (Table 2) :

| Month | Electric Equipment (kWh) |
|--------------|--------------------------|
| January | 0 |
| February | 0 |
| March | 0 |
| April | 0 |
| May | 0 |
| June | 0 |
| July | 0 |
| August | 0 |
| September | 0 |
| October | 0 |
| November | 0 |
| December | 0 |
| Total | 0 |

Monthly Simulation Results for 17 3E 308 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 PM

Air System Simulation Results (Table 1) :

| Month | Central Cooling Coil Load (kBTU) | Central Unit Clg Input (kWh) | Central Heating Coil Load (kBTU) | Central Heating Coil Input (kWh) | Supply Fan (kWh) | Air-to-Air Energy Recovery (kWh) | Lighting (kWh) |
|--------------|----------------------------------|------------------------------|----------------------------------|----------------------------------|------------------|----------------------------------|----------------|
| January | 0 | 0 | 5605 | 1643 | 0 | 0 | 0 |
| February | 0 | 0 | 4738 | 1389 | 0 | 0 | 0 |
| March | 0 | 0 | 4074 | 1194 | 0 | 0 | 0 |
| April | 0 | 0 | 1920 | 563 | 0 | 0 | 0 |
| May | 9 | 1 | 764 | 224 | 0 | 0 | 0 |
| June | 99 | 6 | 97 | 28 | 0 | 0 | 0 |
| July | 955 | 53 | 0 | 0 | 0 | 0 | 0 |
| August | 551 | 31 | 0 | 0 | 0 | 0 | 0 |
| September | 67 | 4 | 364 | 107 | 0 | 0 | 0 |
| October | 0 | 0 | 2163 | 634 | 0 | 0 | 0 |
| November | 0 | 0 | 3444 | 1009 | 0 | 0 | 0 |
| December | 0 | 0 | 5153 | 1510 | 0 | 0 | 0 |
| Total | 1683 | 94 | 28321 | 8300 | 0 | 0 | 0 |

Air System Simulation Results (Table 2) :

| Month | Electric Equipment (kWh) |
|--------------|--------------------------|
| January | 0 |
| February | 0 |
| March | 0 |
| April | 0 |
| May | 0 |
| June | 0 |
| July | 0 |
| August | 0 |
| September | 0 |
| October | 0 |
| November | 0 |
| December | 0 |
| Total | 0 |

Monthly Simulation Results for 19 4E 401 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 PM

Air System Simulation Results (Table 1) :

| Month | Central Cooling Coil Load (kBTU) | Central Unit Clg Input (kWh) | Central Heating Coil Load (kBTU) | Central Heating Coil Input (kWh) | Supply Fan (kWh) | Air-to-Air Energy Recovery (kWh) | Lighting (kWh) |
|--------------|----------------------------------|------------------------------|----------------------------------|----------------------------------|------------------|----------------------------------|----------------|
| January | 0 | 0 | 4233 | 1241 | 0 | 0 | 0 |
| February | 0 | 0 | 3589 | 1052 | 0 | 0 | 0 |
| March | 0 | 0 | 2983 | 874 | 0 | 0 | 0 |
| April | 0 | 0 | 1411 | 414 | 0 | 0 | 0 |
| May | 6 | 0 | 663 | 194 | 0 | 0 | 0 |
| June | 138 | 8 | 113 | 33 | 0 | 0 | 0 |
| July | 1081 | 59 | 0 | 0 | 0 | 0 | 0 |
| August | 806 | 44 | 0 | 0 | 0 | 0 | 0 |
| September | 192 | 10 | 288 | 84 | 0 | 0 | 0 |
| October | 0 | 0 | 1564 | 458 | 0 | 0 | 0 |
| November | 0 | 0 | 2590 | 759 | 0 | 0 | 0 |
| December | 0 | 0 | 4063 | 1191 | 0 | 0 | 0 |
| Total | 2223 | 122 | 21499 | 6301 | 0 | 0 | 0 |

Air System Simulation Results (Table 2) :

| Month | Electric Equipment (kWh) |
|--------------|--------------------------|
| January | 0 |
| February | 0 |
| March | 0 |
| April | 0 |
| May | 0 |
| June | 0 |
| July | 0 |
| August | 0 |
| September | 0 |
| October | 0 |
| November | 0 |
| December | 0 |
| Total | 0 |

Monthly Simulation Results for 21 4E 402 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 PM

Air System Simulation Results (Table 1) :

| Month | Central Cooling Coil Load (kBTU) | Central Unit Clg Input (kWh) | Central Heating Coil Load (kBTU) | Central Heating Coil Input (kWh) | Supply Fan (kWh) | Air-to-Air Energy Recovery (kWh) | Lighting (kWh) |
|--------------|----------------------------------|------------------------------|----------------------------------|----------------------------------|------------------|----------------------------------|----------------|
| January | 0 | 0 | 3352 | 982 | 0 | 0 | 0 |
| February | 0 | 0 | 2845 | 834 | 0 | 0 | 0 |
| March | 0 | 0 | 2382 | 698 | 0 | 0 | 0 |
| April | 0 | 0 | 1141 | 334 | 0 | 0 | 0 |
| May | 4 | 0 | 547 | 160 | 0 | 0 | 0 |
| June | 99 | 6 | 98 | 29 | 0 | 0 | 0 |
| July | 835 | 47 | 0 | 0 | 0 | 0 | 0 |
| August | 616 | 34 | 0 | 0 | 0 | 0 | 0 |
| September | 140 | 8 | 237 | 70 | 0 | 0 | 0 |
| October | 0 | 0 | 1249 | 366 | 0 | 0 | 0 |
| November | 0 | 0 | 2051 | 601 | 0 | 0 | 0 |
| December | 0 | 0 | 3204 | 939 | 0 | 0 | 0 |
| Total | 1694 | 94 | 17108 | 5014 | 0 | 0 | 0 |

Air System Simulation Results (Table 2) :

| Month | Electric Equipment (kWh) |
|--------------|--------------------------|
| January | 0 |
| February | 0 |
| March | 0 |
| April | 0 |
| May | 0 |
| June | 0 |
| July | 0 |
| August | 0 |
| September | 0 |
| October | 0 |
| November | 0 |
| December | 0 |
| Total | 0 |

Monthly Simulation Results for 23 4E 403 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 PM

Air System Simulation Results (Table 1) :

| Month | Central Cooling Coil Load (kBTU) | Central Unit Clg Input (kWh) | Central Heating Coil Load (kBTU) | Central Heating Coil Input (kWh) | Supply Fan (kWh) | Air-to-Air Energy Recovery (kWh) | Lighting (kWh) |
|--------------|----------------------------------|------------------------------|----------------------------------|----------------------------------|------------------|----------------------------------|----------------|
| January | 0 | 0 | 4143 | 1214 | 0 | 0 | 0 |
| February | 0 | 0 | 3513 | 1029 | 0 | 0 | 0 |
| March | 0 | 0 | 2916 | 855 | 0 | 0 | 0 |
| April | 0 | 0 | 1377 | 404 | 0 | 0 | 0 |
| May | 6 | 0 | 650 | 190 | 0 | 0 | 0 |
| June | 136 | 8 | 112 | 33 | 0 | 0 | 0 |
| July | 1045 | 57 | 0 | 0 | 0 | 0 | 0 |
| August | 785 | 43 | 0 | 0 | 0 | 0 | 0 |
| September | 193 | 10 | 283 | 83 | 0 | 0 | 0 |
| October | 0 | 0 | 1528 | 448 | 0 | 0 | 0 |
| November | 0 | 0 | 2534 | 743 | 0 | 0 | 0 |
| December | 0 | 0 | 3980 | 1167 | 0 | 0 | 0 |
| Total | 2165 | 119 | 21035 | 6165 | 0 | 0 | 0 |

Air System Simulation Results (Table 2) :

| Month | Electric Equipment (kWh) |
|--------------|--------------------------|
| January | 0 |
| February | 0 |
| March | 0 |
| April | 0 |
| May | 0 |
| June | 0 |
| July | 0 |
| August | 0 |
| September | 0 |
| October | 0 |
| November | 0 |
| December | 0 |
| Total | 0 |

Monthly Simulation Results for 25 4E 404 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 PM

Air System Simulation Results (Table 1) :

| Month | Central Cooling Coil Load (kBTU) | Central Unit Clg Input (kWh) | Central Heating Coil Load (kBTU) | Central Heating Coil Input (kWh) | Supply Fan (kWh) | Air-to-Air Energy Recovery (kWh) | Lighting (kWh) |
|--------------|----------------------------------|------------------------------|----------------------------------|----------------------------------|------------------|----------------------------------|----------------|
| January | 0 | 0 | 6062 | 1777 | 0 | 0 | 0 |
| February | 0 | 0 | 5150 | 1509 | 0 | 0 | 0 |
| March | 1 | 0 | 4217 | 1236 | 0 | 0 | 0 |
| April | 24 | 1 | 2033 | 596 | 0 | 0 | 0 |
| May | 91 | 5 | 1045 | 306 | 0 | 0 | 0 |
| June | 433 | 23 | 230 | 67 | 0 | 0 | 0 |
| July | 1693 | 92 | 1 | 0 | 0 | 0 | 0 |
| August | 1409 | 76 | 7 | 2 | 0 | 0 | 0 |
| September | 538 | 28 | 472 | 138 | 0 | 0 | 0 |
| October | 14 | 1 | 2228 | 653 | 0 | 0 | 0 |
| November | 0 | 0 | 3687 | 1080 | 0 | 0 | 0 |
| December | 0 | 0 | 5871 | 1721 | 0 | 0 | 0 |
| Total | 4203 | 226 | 31003 | 9086 | 0 | 0 | 0 |

Air System Simulation Results (Table 2) :

| Month | Electric Equipment (kWh) |
|--------------|--------------------------|
| January | 0 |
| February | 0 |
| March | 0 |
| April | 0 |
| May | 0 |
| June | 0 |
| July | 0 |
| August | 0 |
| September | 0 |
| October | 0 |
| November | 0 |
| December | 0 |
| Total | 0 |

Monthly Simulation Results for 27 4E 405 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 PM

Air System Simulation Results (Table 1) :

| Month | Central Cooling Coil Load (kBTU) | Central Unit Clg Input (kWh) | Central Heating Coil Load (kBTU) | Central Heating Coil Input (kWh) | Supply Fan (kWh) | Air-to-Air Energy Recovery (kWh) | Lighting (kWh) |
|--------------|----------------------------------|------------------------------|----------------------------------|----------------------------------|------------------|----------------------------------|----------------|
| January | 0 | 0 | 7067 | 2071 | 0 | 0 | 0 |
| February | 0 | 0 | 5986 | 1754 | 0 | 0 | 0 |
| March | 1 | 0 | 5005 | 1467 | 0 | 0 | 0 |
| April | 33 | 2 | 2463 | 722 | 0 | 0 | 0 |
| May | 156 | 8 | 1227 | 360 | 0 | 0 | 0 |
| June | 525 | 28 | 251 | 73 | 0 | 0 | 0 |
| July | 1643 | 89 | 1 | 0 | 0 | 0 | 0 |
| August | 1230 | 66 | 10 | 3 | 0 | 0 | 0 |
| September | 376 | 20 | 574 | 168 | 0 | 0 | 0 |
| October | 2 | 0 | 2703 | 792 | 0 | 0 | 0 |
| November | 0 | 0 | 4325 | 1268 | 0 | 0 | 0 |
| December | 0 | 0 | 6631 | 1943 | 0 | 0 | 0 |
| Total | 3965 | 213 | 36243 | 10622 | 0 | 0 | 0 |

Air System Simulation Results (Table 2) :

| Month | Electric Equipment (kWh) |
|--------------|--------------------------|
| January | 0 |
| February | 0 |
| March | 0 |
| April | 0 |
| May | 0 |
| June | 0 |
| July | 0 |
| August | 0 |
| September | 0 |
| October | 0 |
| November | 0 |
| December | 0 |
| Total | 0 |

Monthly Simulation Results for 29 4E 406 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 PM

Air System Simulation Results (Table 1) :

| Month | Central Cooling Coil Load (kBTU) | Central Unit Clg Input (kWh) | Central Heating Coil Load (kBTU) | Central Heating Coil Input (kWh) | Supply Fan (kWh) | Air-to-Air Energy Recovery (kWh) | Lighting (kWh) |
|--------------|----------------------------------|------------------------------|----------------------------------|----------------------------------|------------------|----------------------------------|----------------|
| January | 0 | 0 | 3757 | 1101 | 0 | 0 | 0 |
| February | 0 | 0 | 3182 | 933 | 0 | 0 | 0 |
| March | 0 | 0 | 2746 | 805 | 0 | 0 | 0 |
| April | 0 | 0 | 1359 | 398 | 0 | 0 | 0 |
| May | 20 | 1 | 626 | 183 | 0 | 0 | 0 |
| June | 137 | 8 | 106 | 31 | 0 | 0 | 0 |
| July | 725 | 41 | 0 | 0 | 0 | 0 | 0 |
| August | 446 | 25 | 1 | 0 | 0 | 0 | 0 |
| September | 64 | 4 | 294 | 86 | 0 | 0 | 0 |
| October | 0 | 0 | 1497 | 439 | 0 | 0 | 0 |
| November | 0 | 0 | 2346 | 687 | 0 | 0 | 0 |
| December | 0 | 0 | 3467 | 1016 | 0 | 0 | 0 |
| Total | 1392 | 79 | 19382 | 5680 | 0 | 0 | 0 |

Air System Simulation Results (Table 2) :

| Month | Electric Equipment (kWh) |
|--------------|--------------------------|
| January | 0 |
| February | 0 |
| March | 0 |
| April | 0 |
| May | 0 |
| June | 0 |
| July | 0 |
| August | 0 |
| September | 0 |
| October | 0 |
| November | 0 |
| December | 0 |
| Total | 0 |

Monthly Simulation Results for 31 4E 407 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 PM

Air System Simulation Results (Table 1) :

| Month | Central Cooling Coil Load (kBTU) | Central Unit Clg Input (kWh) | Central Heating Coil Load (kBTU) | Central Heating Coil Input (kWh) | Supply Fan (kWh) | Air-to-Air Energy Recovery (kWh) | Lighting (kWh) |
|--------------|----------------------------------|------------------------------|----------------------------------|----------------------------------|------------------|----------------------------------|----------------|
| January | 0 | 0 | 4800 | 1407 | 0 | 0 | 0 |
| February | 0 | 0 | 4060 | 1190 | 0 | 0 | 0 |
| March | 0 | 0 | 3482 | 1020 | 0 | 0 | 0 |
| April | 0 | 0 | 1700 | 498 | 0 | 0 | 0 |
| May | 31 | 2 | 771 | 226 | 0 | 0 | 0 |
| June | 184 | 10 | 127 | 37 | 0 | 0 | 0 |
| July | 894 | 50 | 0 | 0 | 0 | 0 | 0 |
| August | 556 | 31 | 1 | 0 | 0 | 0 | 0 |
| September | 83 | 5 | 364 | 107 | 0 | 0 | 0 |
| October | 0 | 0 | 1897 | 556 | 0 | 0 | 0 |
| November | 0 | 0 | 2993 | 877 | 0 | 0 | 0 |
| December | 0 | 0 | 4435 | 1300 | 0 | 0 | 0 |
| Total | 1749 | 98 | 24630 | 7218 | 0 | 0 | 0 |

Air System Simulation Results (Table 2) :

| Month | Electric Equipment (kWh) |
|--------------|--------------------------|
| January | 0 |
| February | 0 |
| March | 0 |
| April | 0 |
| May | 0 |
| June | 0 |
| July | 0 |
| August | 0 |
| September | 0 |
| October | 0 |
| November | 0 |
| December | 0 |
| Total | 0 |

Monthly Simulation Results for 33 4E 408 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 PM

Air System Simulation Results (Table 1) :

| Month | Central Cooling Coil Load (kBTU) | Central Unit Clg Input (kWh) | Central Heating Coil Load (kBTU) | Central Heating Coil Input (kWh) | Supply Fan (kWh) | Air-to-Air Energy Recovery (kWh) | Lighting (kWh) |
|--------------|----------------------------------|------------------------------|----------------------------------|----------------------------------|------------------|----------------------------------|----------------|
| January | 0 | 0 | 6586 | 1930 | 0 | 0 | 0 |
| February | 0 | 0 | 5567 | 1632 | 0 | 0 | 0 |
| March | 0 | 0 | 4788 | 1403 | 0 | 0 | 0 |
| April | 0 | 0 | 2325 | 681 | 0 | 0 | 0 |
| May | 29 | 2 | 1023 | 300 | 0 | 0 | 0 |
| June | 243 | 13 | 196 | 57 | 0 | 0 | 0 |
| July | 1194 | 66 | 1 | 0 | 0 | 0 | 0 |
| August | 722 | 40 | 5 | 2 | 0 | 0 | 0 |
| September | 113 | 6 | 542 | 159 | 0 | 0 | 0 |
| October | 0 | 0 | 2604 | 763 | 0 | 0 | 0 |
| November | 0 | 0 | 4093 | 1199 | 0 | 0 | 0 |
| December | 0 | 0 | 6067 | 1778 | 0 | 0 | 0 |
| Total | 2301 | 128 | 33797 | 9905 | 0 | 0 | 0 |

Air System Simulation Results (Table 2) :

| Month | Electric Equipment (kWh) |
|--------------|--------------------------|
| January | 0 |
| February | 0 |
| March | 0 |
| April | 0 |
| May | 0 |
| June | 0 |
| July | 0 |
| August | 0 |
| September | 0 |
| October | 0 |
| November | 0 |
| December | 0 |
| Total | 0 |

Monthly Simulation Results for 35 RDC x 8 Log REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 PM

Air System Simulation Results (Table 1) :

| Month | Central Cooling Coil Load (kBTU) | Central Unit Clg Input (kWh) | Central Heating Coil Load (kBTU) | Central Heating Coil Input (kWh) | Supply Fan (kWh) | Air-to-Air Energy Recovery (kWh) | Lighting (kWh) |
|--------------|----------------------------------|------------------------------|----------------------------------|----------------------------------|------------------|----------------------------------|----------------|
| January | 0 | 0 | 34758 | 10187 | 0 | 0 | 0 |
| February | 0 | 0 | 29513 | 8649 | 0 | 0 | 0 |
| March | 0 | 0 | 24926 | 7305 | 0 | 0 | 0 |
| April | 0 | 0 | 12049 | 3531 | 0 | 0 | 0 |
| May | 35 | 2 | 5906 | 1731 | 0 | 0 | 0 |
| June | 277 | 17 | 1189 | 348 | 0 | 0 | 0 |
| July | 4251 | 241 | 2 | 1 | 0 | 0 | 0 |
| August | 3059 | 173 | 9 | 3 | 0 | 0 | 0 |
| September | 559 | 32 | 2425 | 711 | 0 | 0 | 0 |
| October | 0 | 0 | 12895 | 3779 | 0 | 0 | 0 |
| November | 0 | 0 | 21004 | 6156 | 0 | 0 | 0 |
| December | 0 | 0 | 32629 | 9563 | 0 | 0 | 0 |
| Total | 8181 | 465 | 177305 | 51963 | 0 | 0 | 0 |

Air System Simulation Results (Table 2) :

| Month | Electric Equipment (kWh) |
|--------------|--------------------------|
| January | 0 |
| February | 0 |
| March | 0 |
| April | 0 |
| May | 0 |
| June | 0 |
| July | 0 |
| August | 0 |
| September | 0 |
| October | 0 |
| November | 0 |
| December | 0 |
| Total | 0 |

Monthly Simulation Results for 37 3E ESC1 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 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 | 626 | 184 | 11 | 0 | 0 |
| February | 530 | 155 | 10 | 0 | 0 |
| March | 445 | 130 | 11 | 0 | 0 |
| April | 187 | 55 | 11 | 0 | 0 |
| May | 54 | 16 | 11 | 0 | 0 |
| June | 1 | 0 | 11 | 0 | 0 |
| July | 0 | 0 | 11 | 0 | 0 |
| August | 0 | 0 | 11 | 0 | 0 |
| September | 21 | 6 | 11 | 0 | 0 |
| October | 224 | 66 | 11 | 0 | 0 |
| November | 380 | 111 | 11 | 0 | 0 |
| December | 580 | 170 | 11 | 0 | 0 |
| Total | 3049 | 894 | 134 | 0 | 0 |

Monthly Simulation Results for 39 4E ESC1 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 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 | 566 | 166 | 10 | 0 | 0 |
| February | 477 | 140 | 9 | 0 | 0 |
| March | 397 | 116 | 10 | 0 | 0 |
| April | 175 | 51 | 10 | 0 | 0 |
| May | 63 | 18 | 10 | 0 | 0 |
| June | 5 | 2 | 10 | 0 | 0 |
| July | 0 | 0 | 10 | 0 | 0 |
| August | 0 | 0 | 10 | 0 | 0 |
| September | 29 | 9 | 10 | 0 | 0 |
| October | 213 | 62 | 10 | 0 | 0 |
| November | 352 | 103 | 10 | 0 | 0 |
| December | 527 | 154 | 10 | 0 | 0 |
| Total | 2803 | 821 | 122 | 0 | 0 |

Monthly Simulation Results for 41 4E ESC2 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 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 | 1934 | 567 | 37 | 0 | 0 |
| February | 1644 | 482 | 33 | 0 | 0 |
| March | 1415 | 415 | 37 | 0 | 0 |
| April | 697 | 204 | 36 | 0 | 0 |
| May | 332 | 97 | 37 | 0 | 0 |
| June | 71 | 21 | 36 | 0 | 0 |
| July | 0 | 0 | 37 | 0 | 0 |
| August | 1 | 0 | 37 | 0 | 0 |
| September | 154 | 45 | 36 | 0 | 0 |
| October | 736 | 216 | 37 | 0 | 0 |
| November | 1182 | 347 | 36 | 0 | 0 |
| December | 1796 | 526 | 37 | 0 | 0 |
| Total | 9963 | 2920 | 436 | 0 | 0 |

Monthly Simulation Results for 43 SS Stationnement REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 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 | 10876 | 3187 | 228 | 0 | 0 |
| February | 9997 | 2930 | 206 | 0 | 0 |
| March | 9756 | 2859 | 228 | 0 | 0 |
| April | 7209 | 2113 | 221 | 0 | 0 |
| May | 5077 | 1488 | 228 | 0 | 0 |
| June | 2629 | 770 | 221 | 0 | 0 |
| July | 141 | 41 | 228 | 0 | 0 |
| August | 0 | 0 | 228 | 0 | 0 |
| September | 694 | 203 | 221 | 0 | 0 |
| October | 3811 | 1117 | 228 | 0 | 0 |
| November | 5738 | 1682 | 221 | 0 | 0 |
| December | 8328 | 2441 | 228 | 0 | 0 |
| Total | 64257 | 18832 | 2686 | 0 | 0 |

Monthly Simulation Results for 45 Couloir et SAS REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 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 | 603 | 43 | 4545 | 1332 | 0 |
| February | 0 | 0 | 563 | 40 | 3859 | 1131 | 0 |
| March | 0 | 0 | 671 | 48 | 3378 | 990 | 0 |
| April | 0 | 0 | 542 | 39 | 1719 | 504 | 0 |
| May | 0 | 0 | 387 | 29 | 785 | 230 | 0 |
| June | 0 | 0 | 304 | 24 | 177 | 52 | 0 |
| July | 0 | 0 | 553 | 40 | 9 | 3 | 0 |
| August | 0 | 0 | 440 | 32 | 21 | 6 | 0 |
| September | 0 | 0 | 343 | 26 | 411 | 121 | 0 |
| October | 0 | 0 | 625 | 45 | 1915 | 561 | 0 |
| November | 0 | 0 | 656 | 47 | 2923 | 857 | 0 |
| December | 0 | 0 | 655 | 47 | 4257 | 1247 | 0 |
| Total | 0 | 0 | 6343 | 458 | 23998 | 7033 | 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 47 3E ESC2 REF

(In Alternative: a) Alternative REF)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 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 | 1760 | 516 | 34 | 0 | 0 |
| February | 1497 | 439 | 30 | 0 | 0 |
| March | 1290 | 378 | 34 | 0 | 0 |
| April | 629 | 184 | 33 | 0 | 0 |
| May | 291 | 85 | 34 | 0 | 0 |
| June | 50 | 15 | 33 | 0 | 0 |
| July | 0 | 0 | 34 | 0 | 0 |
| August | 0 | 0 | 34 | 0 | 0 |
| September | 123 | 36 | 33 | 0 | 0 |
| October | 658 | 193 | 34 | 0 | 0 |
| November | 1066 | 312 | 33 | 0 | 0 |
| December | 1634 | 479 | 34 | 0 | 0 |
| Total | 8999 | 2637 | 396 | 0 | 0 |

Monthly Simulation Results for 02 2E x 8 Log CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 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 | 26425 | 2831 | 8462 | 2480 | 0 |
| February | 0 | 0 | 23293 | 2436 | 6307 | 1848 | 0 |
| March | 0 | 0 | 23271 | 2191 | 1461 | 428 | 0 |
| April | 0 | 0 | 11417 | 941 | 0 | 0 | 0 |
| May | 43 | 2 | 5025 | 374 | 0 | 0 | 0 |
| June | 613 | 25 | 628 | 45 | 0 | 0 | 0 |
| July | 7048 | 278 | 0 | 0 | 0 | 0 | 0 |
| August | 5084 | 200 | 0 | 0 | 0 | 0 | 0 |
| September | 1065 | 42 | 1985 | 143 | 0 | 0 | 0 |
| October | 0 | 0 | 12663 | 980 | 0 | 0 | 0 |
| November | 0 | 0 | 20959 | 1804 | 70 | 21 | 0 |
| December | 0 | 0 | 27277 | 2712 | 5663 | 1660 | 0 |
| Total | 13854 | 548 | 152944 | 14457 | 21963 | 6437 | 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 3E 301 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 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 | 2636 | 290 | 638 | 187 | 0 |
| February | 0 | 0 | 2310 | 247 | 472 | 138 | 0 |
| March | 0 | 0 | 2219 | 213 | 88 | 26 | 0 |
| April | 0 | 0 | 1055 | 89 | 0 | 0 | 0 |
| May | 1 | 0 | 436 | 33 | 0 | 0 | 0 |
| June | 59 | 2 | 38 | 3 | 0 | 0 | 0 |
| July | 871 | 33 | 0 | 0 | 0 | 0 | 0 |
| August | 686 | 25 | 0 | 0 | 0 | 0 | 0 |
| September | 182 | 7 | 157 | 12 | 0 | 0 | 0 |
| October | 0 | 0 | 1161 | 92 | 0 | 0 | 0 |
| November | 0 | 0 | 1979 | 174 | 2 | 0 | 0 |
| December | 0 | 0 | 2750 | 280 | 422 | 124 | 0 |
| Total | 1799 | 67 | 14741 | 1433 | 1622 | 475 | 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 3E 302 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 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 | 2349 | 261 | 300 | 88 | 0 |
| February | 0 | 0 | 2030 | 220 | 223 | 65 | 0 |
| March | 0 | 0 | 1867 | 181 | 14 | 4 | 0 |
| April | 0 | 0 | 878 | 74 | 0 | 0 | 0 |
| May | 0 | 0 | 378 | 29 | 0 | 0 | 0 |
| June | 36 | 1 | 37 | 3 | 0 | 0 | 0 |
| July | 625 | 24 | 0 | 0 | 0 | 0 | 0 |
| August | 487 | 18 | 0 | 0 | 0 | 0 | 0 |
| September | 122 | 4 | 137 | 10 | 0 | 0 | 0 |
| October | 0 | 0 | 951 | 75 | 0 | 0 | 0 |
| November | 0 | 0 | 1602 | 143 | 0 | 0 | 0 |
| December | 0 | 0 | 2386 | 247 | 166 | 49 | 0 |
| Total | 1270 | 48 | 12616 | 1243 | 703 | 206 | 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 3E 303 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 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 | 2602 | 287 | 603 | 177 | 0 |
| February | 0 | 0 | 2276 | 244 | 446 | 131 | 0 |
| March | 0 | 0 | 2176 | 209 | 79 | 23 | 0 |
| April | 0 | 0 | 1028 | 87 | 0 | 0 | 0 |
| May | 1 | 0 | 427 | 32 | 0 | 0 | 0 |
| June | 62 | 2 | 38 | 3 | 0 | 0 | 0 |
| July | 849 | 32 | 0 | 0 | 0 | 0 | 0 |
| August | 675 | 25 | 0 | 0 | 0 | 0 | 0 |
| September | 186 | 7 | 153 | 11 | 0 | 0 | 0 |
| October | 0 | 0 | 1133 | 90 | 0 | 0 | 0 |
| November | 0 | 0 | 1936 | 171 | 1 | 0 | 0 |
| December | 0 | 0 | 2714 | 277 | 395 | 116 | 0 |
| Total | 1772 | 66 | 14484 | 1411 | 1523 | 446 | 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 3E 304 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 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 | 3639 | 388 | 1344 | 394 | 0 |
| February | 0 | 0 | 3251 | 336 | 986 | 289 | 0 |
| March | 0 | 0 | 3168 | 293 | 283 | 83 | 0 |
| April | 8 | 0 | 1624 | 132 | 0 | 0 | 0 |
| May | 43 | 2 | 782 | 57 | 0 | 0 | 0 |
| June | 272 | 11 | 117 | 8 | 0 | 0 | 0 |
| July | 1457 | 59 | 0 | 0 | 0 | 0 | 0 |
| August | 1258 | 50 | 0 | 0 | 0 | 0 | 0 |
| September | 485 | 19 | 302 | 21 | 0 | 0 | 0 |
| October | 11 | 0 | 1781 | 136 | 0 | 0 | 0 |
| November | 0 | 0 | 2981 | 253 | 26 | 8 | 0 |
| December | 0 | 0 | 3917 | 385 | 946 | 277 | 0 |
| Total | 3534 | 142 | 21563 | 2009 | 3586 | 1051 | 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 3E 305 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 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 | 4003 | 423 | 1644 | 482 | 0 |
| February | 0 | 0 | 3546 | 365 | 1239 | 363 | 0 |
| March | 0 | 0 | 3600 | 333 | 375 | 110 | 0 |
| April | 17 | 1 | 1892 | 154 | 0 | 0 | 0 |
| May | 99 | 4 | 867 | 64 | 0 | 0 | 0 |
| June | 339 | 14 | 116 | 8 | 0 | 0 | 0 |
| July | 1324 | 54 | 0 | 0 | 0 | 0 | 0 |
| August | 1008 | 41 | 0 | 0 | 0 | 0 | 0 |
| September | 301 | 12 | 353 | 25 | 0 | 0 | 0 |
| October | 0 | 0 | 2092 | 159 | 0 | 0 | 0 |
| November | 0 | 0 | 3370 | 285 | 40 | 12 | 0 |
| December | 0 | 0 | 4188 | 410 | 1125 | 330 | 0 |
| Total | 3088 | 126 | 24028 | 2226 | 4423 | 1296 | 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 3E 306 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 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 | 2634 | 284 | 378 | 111 | 0 |
| February | 0 | 0 | 2259 | 240 | 293 | 86 | 0 |
| March | 0 | 0 | 2184 | 209 | 20 | 6 | 0 |
| April | 0 | 0 | 1057 | 88 | 0 | 0 | 0 |
| May | 5 | 0 | 428 | 32 | 0 | 0 | 0 |
| June | 42 | 2 | 40 | 3 | 0 | 0 | 0 |
| July | 504 | 20 | 0 | 0 | 0 | 0 | 0 |
| August | 298 | 12 | 0 | 0 | 0 | 0 | 0 |
| September | 32 | 1 | 176 | 13 | 0 | 0 | 0 |
| October | 0 | 0 | 1164 | 91 | 0 | 0 | 0 |
| November | 0 | 0 | 1852 | 162 | 0 | 0 | 0 |
| December | 0 | 0 | 2568 | 260 | 203 | 59 | 0 |
| Total | 880 | 35 | 14362 | 1382 | 893 | 262 | 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 3E 307 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 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 | 2981 | 319 | 795 | 233 | 0 |
| February | 0 | 0 | 2572 | 270 | 622 | 182 | 0 |
| March | 0 | 0 | 2624 | 249 | 115 | 34 | 0 |
| April | 0 | 0 | 1285 | 107 | 0 | 0 | 0 |
| May | 8 | 0 | 502 | 38 | 0 | 0 | 0 |
| June | 58 | 2 | 43 | 3 | 0 | 0 | 0 |
| July | 614 | 24 | 0 | 0 | 0 | 0 | 0 |
| August | 366 | 14 | 0 | 0 | 0 | 0 | 0 |
| September | 41 | 2 | 208 | 15 | 0 | 0 | 0 |
| October | 0 | 0 | 1440 | 112 | 0 | 0 | 0 |
| November | 0 | 0 | 2314 | 201 | 1 | 0 | 0 |
| December | 0 | 0 | 2971 | 297 | 507 | 149 | 0 |
| Total | 1086 | 42 | 16939 | 1612 | 2042 | 598 | 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 3E 308 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 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 | 4106 | 431 | 1498 | 439 | 0 |
| February | 0 | 0 | 3591 | 369 | 1147 | 336 | 0 |
| March | 0 | 0 | 3800 | 351 | 274 | 80 | 0 |
| April | 0 | 0 | 1920 | 155 | 0 | 0 | 0 |
| May | 9 | 0 | 764 | 56 | 0 | 0 | 0 |
| June | 99 | 4 | 97 | 7 | 0 | 0 | 0 |
| July | 950 | 39 | 0 | 0 | 0 | 0 | 0 |
| August | 549 | 23 | 0 | 0 | 0 | 0 | 0 |
| September | 67 | 3 | 364 | 26 | 0 | 0 | 0 |
| October | 0 | 0 | 2163 | 164 | 0 | 0 | 0 |
| November | 0 | 0 | 3428 | 289 | 16 | 5 | 0 |
| December | 0 | 0 | 4169 | 407 | 983 | 288 | 0 |
| Total | 1674 | 70 | 24403 | 2253 | 3919 | 1148 | 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 4E 401 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 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 | 3518 | 377 | 716 | 210 | 0 |
| February | 0 | 0 | 3056 | 320 | 533 | 156 | 0 |
| March | 0 | 0 | 2896 | 271 | 87 | 26 | 0 |
| April | 0 | 0 | 1411 | 115 | 0 | 0 | 0 |
| May | 6 | 0 | 663 | 49 | 0 | 0 | 0 |
| June | 137 | 6 | 113 | 8 | 0 | 0 | 0 |
| July | 1080 | 44 | 0 | 0 | 0 | 0 | 0 |
| August | 805 | 33 | 0 | 0 | 0 | 0 | 0 |
| September | 192 | 8 | 288 | 20 | 0 | 0 | 0 |
| October | 0 | 0 | 1564 | 119 | 0 | 0 | 0 |
| November | 0 | 0 | 2590 | 222 | 0 | 0 | 0 |
| December | 0 | 0 | 3609 | 359 | 454 | 133 | 0 |
| Total | 2219 | 91 | 19708 | 1859 | 1790 | 525 | 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 4E 402 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 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 | 2736 | 297 | 617 | 181 | 0 |
| February | 0 | 0 | 2387 | 253 | 458 | 134 | 0 |
| March | 0 | 0 | 2296 | 219 | 86 | 25 | 0 |
| April | 0 | 0 | 1141 | 95 | 0 | 0 | 0 |
| May | 3 | 0 | 547 | 41 | 0 | 0 | 0 |
| June | 90 | 4 | 98 | 7 | 0 | 0 | 0 |
| July | 775 | 30 | 0 | 0 | 0 | 0 | 0 |
| August | 572 | 22 | 0 | 0 | 0 | 0 | 0 |
| September | 128 | 5 | 237 | 17 | 0 | 0 | 0 |
| October | 0 | 0 | 1249 | 98 | 0 | 0 | 0 |
| November | 0 | 0 | 2050 | 179 | 1 | 0 | 0 |
| December | 0 | 0 | 2806 | 283 | 399 | 117 | 0 |
| Total | 1568 | 60 | 15548 | 1488 | 1560 | 457 | 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 4E 403 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 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 | 2941 | 318 | 1202 | 352 | 0 |
| February | 0 | 0 | 2655 | 278 | 858 | 251 | 0 |
| March | 0 | 0 | 2651 | 249 | 265 | 78 | 0 |
| April | 0 | 0 | 1377 | 114 | 0 | 0 | 0 |
| May | 6 | 0 | 650 | 49 | 0 | 0 | 0 |
| June | 136 | 5 | 112 | 8 | 0 | 0 | 0 |
| July | 1043 | 39 | 0 | 0 | 0 | 0 | 0 |
| August | 784 | 29 | 0 | 0 | 0 | 0 | 0 |
| September | 193 | 7 | 283 | 20 | 0 | 0 | 0 |
| October | 0 | 0 | 1528 | 119 | 0 | 0 | 0 |
| November | 0 | 0 | 2496 | 215 | 37 | 11 | 0 |
| December | 0 | 0 | 3128 | 312 | 852 | 250 | 0 |
| Total | 2162 | 81 | 17821 | 1682 | 3214 | 942 | 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 404 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 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 | 3924 | 416 | 2138 | 627 | 0 |
| February | 0 | 0 | 3590 | 367 | 1560 | 457 | 0 |
| March | 1 | 0 | 3602 | 330 | 615 | 180 | 0 |
| April | 24 | 1 | 2033 | 163 | 0 | 0 | 0 |
| May | 91 | 4 | 1045 | 76 | 0 | 0 | 0 |
| June | 429 | 17 | 230 | 16 | 0 | 0 | 0 |
| July | 1680 | 68 | 1 | 0 | 0 | 0 | 0 |
| August | 1399 | 56 | 7 | 0 | 0 | 0 | 0 |
| September | 533 | 21 | 472 | 33 | 0 | 0 | 0 |
| October | 14 | 1 | 2228 | 168 | 0 | 0 | 0 |
| November | 0 | 0 | 3545 | 296 | 142 | 42 | 0 |
| December | 0 | 0 | 4244 | 413 | 1627 | 477 | 0 |
| Total | 4172 | 167 | 24921 | 2279 | 6082 | 1782 | 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: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 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 | 4242 | 445 | 2825 | 828 | 0 |
| February | 0 | 0 | 3872 | 393 | 2114 | 620 | 0 |
| March | 1 | 0 | 4087 | 373 | 918 | 269 | 0 |
| April | 33 | 1 | 2459 | 196 | 4 | 1 | 0 |
| May | 156 | 6 | 1227 | 89 | 0 | 0 | 0 |
| June | 520 | 21 | 250 | 17 | 0 | 0 | 0 |
| July | 1631 | 66 | 1 | 0 | 0 | 0 | 0 |
| August | 1222 | 49 | 10 | 1 | 0 | 0 | 0 |
| September | 372 | 15 | 574 | 40 | 0 | 0 | 0 |
| October | 2 | 0 | 2702 | 202 | 0 | 0 | 0 |
| November | 0 | 0 | 4085 | 338 | 240 | 70 | 0 |
| December | 0 | 0 | 4512 | 436 | 2119 | 621 | 0 |
| Total | 3935 | 158 | 28023 | 2530 | 8220 | 2409 | 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 406 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 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 | 2976 | 319 | 781 | 229 | 0 |
| February | 0 | 0 | 2568 | 270 | 614 | 180 | 0 |
| March | 0 | 0 | 2623 | 249 | 123 | 36 | 0 |
| April | 0 | 0 | 1359 | 113 | 0 | 0 | 0 |
| May | 19 | 1 | 626 | 47 | 0 | 0 | 0 |
| June | 125 | 5 | 106 | 8 | 0 | 0 | 0 |
| July | 672 | 26 | 0 | 0 | 0 | 0 | 0 |
| August | 415 | 16 | 1 | 0 | 0 | 0 | 0 |
| September | 58 | 2 | 294 | 21 | 0 | 0 | 0 |
| October | 0 | 0 | 1497 | 117 | 0 | 0 | 0 |
| November | 0 | 0 | 2344 | 203 | 1 | 0 | 0 |
| December | 0 | 0 | 2970 | 297 | 497 | 146 | 0 |
| Total | 1289 | 50 | 17364 | 1644 | 2017 | 591 | 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 407 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 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 | 3871 | 409 | 929 | 272 | 0 |
| February | 0 | 0 | 3326 | 345 | 734 | 215 | 0 |
| March | 0 | 0 | 3351 | 313 | 131 | 38 | 0 |
| April | 0 | 0 | 1700 | 138 | 0 | 0 | 0 |
| May | 31 | 1 | 771 | 56 | 0 | 0 | 0 |
| June | 184 | 8 | 127 | 9 | 0 | 0 | 0 |
| July | 893 | 37 | 0 | 0 | 0 | 0 | 0 |
| August | 555 | 23 | 1 | 0 | 0 | 0 | 0 |
| September | 83 | 4 | 364 | 26 | 0 | 0 | 0 |
| October | 0 | 0 | 1897 | 144 | 0 | 0 | 0 |
| November | 0 | 0 | 2992 | 254 | 1 | 0 | 0 |
| December | 0 | 0 | 3852 | 380 | 583 | 171 | 0 |
| Total | 1745 | 73 | 22253 | 2076 | 2377 | 697 | 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 408 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 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 | 4274 | 446 | 2312 | 678 | 0 |
| February | 0 | 0 | 3852 | 391 | 1715 | 503 | 0 |
| March | 0 | 0 | 4197 | 383 | 592 | 173 | 0 |
| April | 0 | 0 | 2325 | 186 | 0 | 0 | 0 |
| May | 29 | 1 | 1023 | 74 | 0 | 0 | 0 |
| June | 240 | 10 | 196 | 14 | 0 | 0 | 0 |
| July | 1185 | 49 | 1 | 0 | 0 | 0 | 0 |
| August | 717 | 30 | 5 | 0 | 0 | 0 | 0 |
| September | 112 | 5 | 542 | 38 | 0 | 0 | 0 |
| October | 0 | 0 | 2604 | 196 | 0 | 0 | 0 |
| November | 0 | 0 | 3984 | 331 | 108 | 32 | 0 |
| December | 0 | 0 | 4462 | 432 | 1604 | 470 | 0 |
| Total | 2284 | 95 | 27465 | 2490 | 6332 | 1856 | 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 RDC x 8 Log CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 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 | 26440 | 2831 | 8319 | 2438 | 0 |
| February | 0 | 0 | 23287 | 2434 | 6226 | 1825 | 0 |
| March | 0 | 0 | 23440 | 2205 | 1486 | 435 | 0 |
| April | 0 | 0 | 12049 | 989 | 0 | 0 | 0 |
| May | 35 | 2 | 5906 | 437 | 0 | 0 | 0 |
| June | 275 | 12 | 1189 | 84 | 0 | 0 | 0 |
| July | 4233 | 171 | 2 | 0 | 0 | 0 | 0 |
| August | 3048 | 123 | 9 | 1 | 0 | 0 | 0 |
| September | 556 | 23 | 2425 | 174 | 0 | 0 | 0 |
| October | 0 | 0 | 12895 | 996 | 0 | 0 | 0 |
| November | 0 | 0 | 20941 | 1802 | 63 | 18 | 0 |
| December | 0 | 0 | 27148 | 2701 | 5481 | 1606 | 0 |
| Total | 8147 | 330 | 155732 | 14655 | 21573 | 6323 | 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 3E ESC1 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 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 | 626 | 184 | 11 | 0 | 0 |
| February | 530 | 155 | 10 | 0 | 0 |
| March | 445 | 130 | 11 | 0 | 0 |
| April | 187 | 55 | 11 | 0 | 0 |
| May | 54 | 16 | 11 | 0 | 0 |
| June | 1 | 0 | 11 | 0 | 0 |
| July | 0 | 0 | 11 | 0 | 0 |
| August | 0 | 0 | 11 | 0 | 0 |
| September | 21 | 6 | 11 | 0 | 0 |
| October | 224 | 66 | 11 | 0 | 0 |
| November | 380 | 111 | 11 | 0 | 0 |
| December | 580 | 170 | 11 | 0 | 0 |
| Total | 3049 | 894 | 134 | 0 | 0 |

Monthly Simulation Results for 40 4E ESC1 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 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 | 566 | 166 | 10 | 0 | 0 |
| February | 477 | 140 | 9 | 0 | 0 |
| March | 397 | 116 | 10 | 0 | 0 |
| April | 175 | 51 | 10 | 0 | 0 |
| May | 63 | 18 | 10 | 0 | 0 |
| June | 5 | 2 | 10 | 0 | 0 |
| July | 0 | 0 | 10 | 0 | 0 |
| August | 0 | 0 | 10 | 0 | 0 |
| September | 29 | 9 | 10 | 0 | 0 |
| October | 213 | 62 | 10 | 0 | 0 |
| November | 352 | 103 | 10 | 0 | 0 |
| December | 527 | 154 | 10 | 0 | 0 |
| Total | 2803 | 821 | 122 | 0 | 0 |

Monthly Simulation Results for 42 4E ESC2 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 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 | 1934 | 567 | 37 | 0 | 0 |
| February | 1644 | 482 | 33 | 0 | 0 |
| March | 1415 | 415 | 37 | 0 | 0 |
| April | 697 | 204 | 36 | 0 | 0 |
| May | 332 | 97 | 37 | 0 | 0 |
| June | 71 | 21 | 36 | 0 | 0 |
| July | 0 | 0 | 37 | 0 | 0 |
| August | 1 | 0 | 37 | 0 | 0 |
| September | 154 | 45 | 36 | 0 | 0 |
| October | 736 | 216 | 37 | 0 | 0 |
| November | 1182 | 347 | 36 | 0 | 0 |
| December | 1796 | 526 | 37 | 0 | 0 |
| Total | 9963 | 2920 | 436 | 0 | 0 |

Monthly Simulation Results for 44 SS Stationnement CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 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 | 10876 | 3187 | 228 | 0 | 0 |
| February | 9997 | 2930 | 206 | 0 | 0 |
| March | 9756 | 2859 | 228 | 0 | 0 |
| April | 7209 | 2113 | 221 | 0 | 0 |
| May | 5077 | 1488 | 228 | 0 | 0 |
| June | 2629 | 770 | 221 | 0 | 0 |
| July | 141 | 41 | 228 | 0 | 0 |
| August | 0 | 0 | 228 | 0 | 0 |
| September | 694 | 203 | 221 | 0 | 0 |
| October | 3811 | 1117 | 228 | 0 | 0 |
| November | 5738 | 1682 | 221 | 0 | 0 |
| December | 8328 | 2441 | 228 | 0 | 0 |
| Total | 64256 | 18832 | 2686 | 0 | 0 |

Monthly Simulation Results for 46 Couloir et SAS CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 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 | 603 | 43 | 4545 | 1332 | 0 |
| February | 0 | 0 | 563 | 40 | 3859 | 1131 | 0 |
| March | 0 | 0 | 671 | 48 | 3378 | 990 | 0 |
| April | 0 | 0 | 542 | 39 | 1719 | 504 | 0 |
| May | 0 | 0 | 387 | 29 | 785 | 230 | 0 |
| June | 0 | 0 | 304 | 24 | 177 | 52 | 0 |
| July | 0 | 0 | 553 | 40 | 9 | 3 | 0 |
| August | 0 | 0 | 440 | 32 | 21 | 6 | 0 |
| September | 0 | 0 | 343 | 26 | 411 | 121 | 0 |
| October | 0 | 0 | 625 | 45 | 1915 | 561 | 0 |
| November | 0 | 0 | 656 | 47 | 2923 | 857 | 0 |
| December | 0 | 0 | 655 | 47 | 4257 | 1247 | 0 |
| Total | 0 | 0 | 6343 | 458 | 23998 | 7033 | 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 48 3E ESC2 CPT

(In Alternative: b) Alternative CPT)

Project: 26919 32 unités au 17035 Boul. Henri-Bourassa, Québ...

02/23/2026

Prepared by: Groupe CMI

12:06 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 | 1760 | 516 | 34 | 0 | 0 |
| February | 1497 | 439 | 30 | 0 | 0 |
| March | 1290 | 378 | 34 | 0 | 0 |
| April | 629 | 184 | 33 | 0 | 0 |
| May | 291 | 85 | 34 | 0 | 0 |
| June | 50 | 15 | 33 | 0 | 0 |
| July | 0 | 0 | 34 | 0 | 0 |
| August | 0 | 0 | 34 | 0 | 0 |
| September | 123 | 36 | 33 | 0 | 0 |
| October | 658 | 193 | 34 | 0 | 0 |
| November | 1066 | 312 | 33 | 0 | 0 |
| December | 1634 | 479 | 34 | 0 | 0 |
| Total | 8999 | 2637 | 396 | 0 | 0 |