



AEROMATIC™ SERIES ADVANCED COMMERCIAL CH2000 Heat Recovery Ventilator

PRODUCT
SPECIFICATIONS
& TECHNICAL
DATA

Standard Features



Interior Unit CH2000i



Exterior Unit CH2000e (shown with roof curb)

NOMINAL CAPACITY

1000-2500 CFM

CASING

Double-wall cabinet
White exterior paint, 22-gauge galvanized steel
18-gauge galvanized steel interior walls
Access doors with quarter-turn handles
18-gauge stainless steel drain pan
Drain Connections: 1" NPT
Insulation: 2" (51 mm)

MOUNTING

On roof curb or on platform

PLATE EXCHANGER

Standard: Polypropylene (sensible heat transfer)
Quantity: 3
Pitch: 0.12" (3 mm)
Dimensions: 16.03" x 16.03" x 15.67"
(407 mm x 407 mm x 398 mm)



Optional: Aluminum (sensible heat transfer)
Quantity: 3
Pitch: 0.13" (3.3 mm)
Dimensions: 16.34" x 16.34" x 15.67"
(415 mm x 415 mm x 398 mm)



BLOWERS

Quantity: 2

- Forward-curved
- Permanently sealed and lubricated ball bearings
- Power transmission by adjustable pulleys and belts

MOTORS

Type: Inverter duty 10:1, ODP or TEFC, EAct or Premium
Maximum Power: 3 hp
Drive Assembly/Blower: On vibration-isolating springs

FILTERS

Type: MERV 8
Quantity: 2 per circuit
Dimensions: 20" x 20" x 4" (508 mm x 508 mm x 102 mm)

ELECTRICAL & CONTROLS

- Start/stop dry contact and general alarm dry contact
- Occupancy control dry contact
- Fan interlock dry contact
- 24VAC, 20VA power available for accessories
- Access panel with non-fused disconnect (NEMA 4)
- Single-point power connection
- 120, 208, 230 V / 1ph / 60Hz
- 208, 230, 460, 575 V / 3ph / 60Hz

WARRANTY

- Core: Limited 10-year warranty
- All Other Covered Components: Limited 2-year warranty

LISTED BY



Optional Features

FROST PREVENTION/CONTROL OPTIONS

Frost control activated by a temperature reference
Set point: 23°F (-5°C)

Internal Pre-Heat by Electric Coil:

- Powered by unit
- Factory calibrated
- SCR control

Internal Pre-Heat by Hot Water Coil:

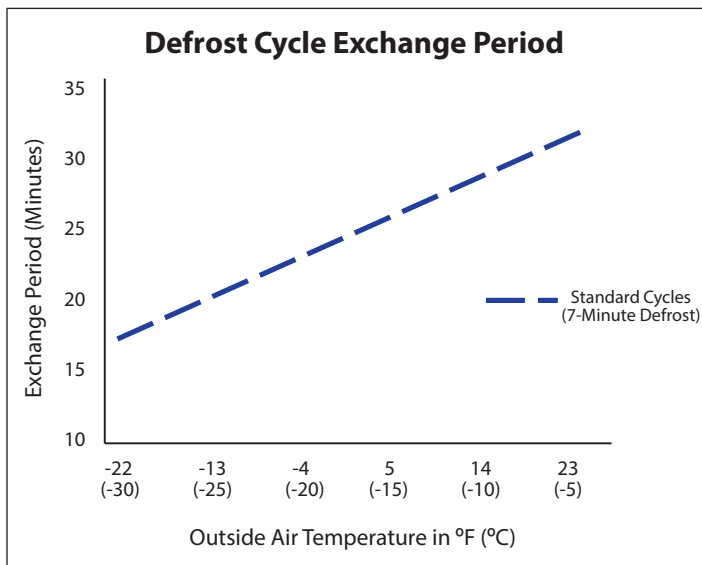
- 0-10 V signal on the control panel
- Front or back piping connections

Internal Face and Bypass Damper:

- Fresh air deviation

Defrost Cycles:

- Exhaust Only or Recirculation
- Comes with motorized and insulated damper on OA only
- See table below for temperature references



AVAILABLE OPTIONS

Cabinet Options:

- Supply and Exhaust Hoods with bird screens
- Roof Curb: 14" (356 mm) high, 18-gauge galvanized steel, insulation optional
- Front or back piping connections (drain pan and water coil and/or cooling connections)
- Pool Construction: TEFC motors, stainless steel interior, and epoxy-coated fans

AVAILABLE OPTIONS

Components Options:

- Final MERV 13 filters added to the fresh air circuit
- Motorized and insulated dampers (on OA and/or EA openings)
- Non-insulated backdraft damper (on EA opening only)
- Post-Heat by Electric Coil: Powered by unit
- Post-Heat by Hot Water Coil: 0-10VDC signal to maintain supply air temperature, or 0-10VDC signal by others
- Cold Water Cooling Coil: Control by others, comes with 18-gauge stainless steel drain pan
- DX Cooling Coil: All controls and condensation unit by others, comes with 18-gauge stainless steel drain pan

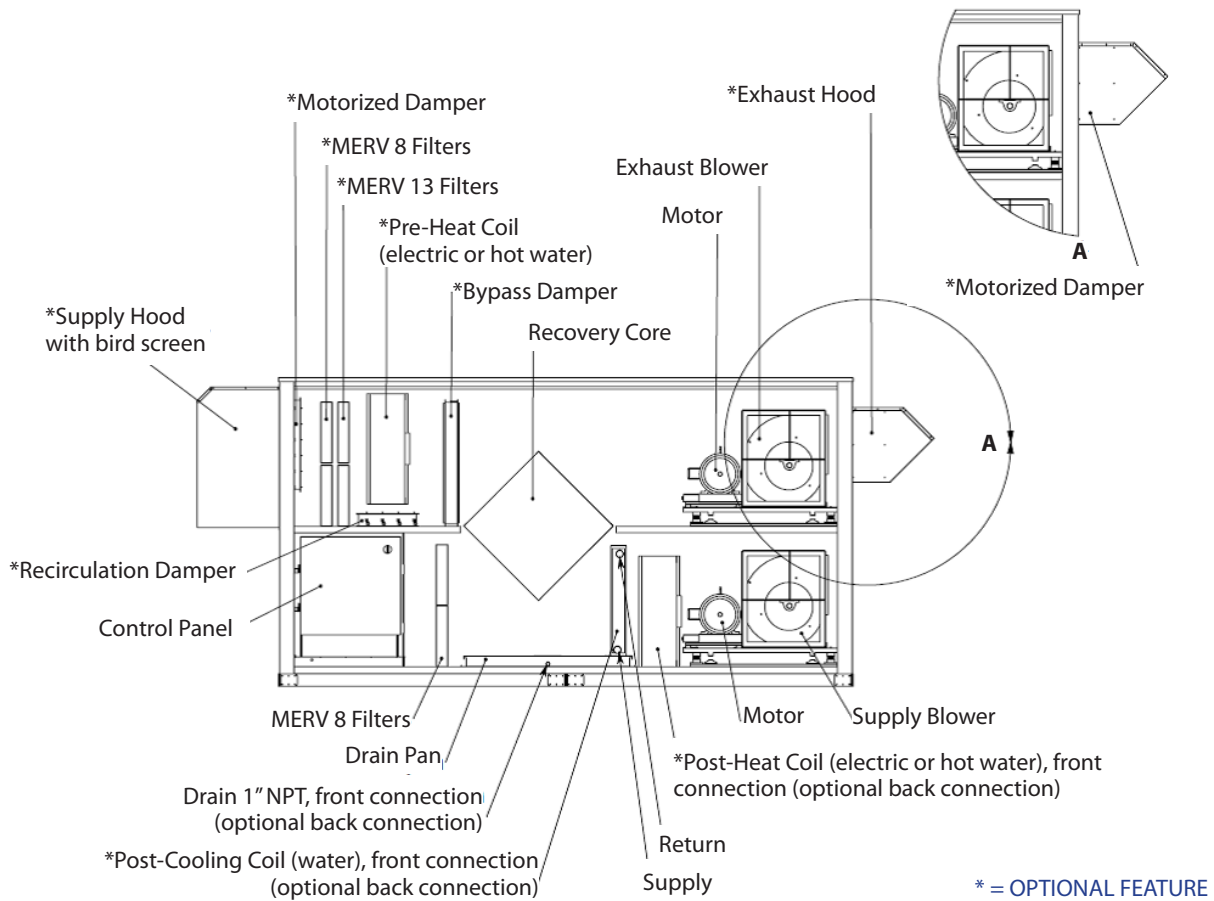
Blower Motor Options:

- TEFC, Premium (only available with ≥ 1.5 hp/ 3ph)
- 2-Speed motors (only available with ODP, EPAct motors)
- Programmable 2-Speed (VFD)
- Variable Frequency Drive (VFD), 0-10VDC control signal by others
- Backward-inclined blowers

Control Options:

- Economizer Cycle: Free cooling management by temperature sensor on OA (available with face and bypass damper only)
- Dirty Filters Contact: Will close a dry contact when dirty filters are detected
- Low Airflow Switch: Will open a dry contact when no airflow is detected on supply blower
- Low Temperature Limit: Unit will stop if fresh air supply is under set point (adjustable) for more than 5 minutes
- Phase Loss Detection: Unit will stop when a phase loss occurs, automatic restart (3-phase power only)
- Damper End Switch: Unit start up conditional to dampers opening
- Recirculation Dry Contact: For unoccupied mode, must select recirculation defrost option
- Terminals for OA and/or EA damper power and control (24VAC, 10VA): Included when OA/EA damper selected
- Programmable Timer
- CO₂ or Relative Humidity (RH) Sensor: Sequence of operations must be verified by factory
- BacNet Compatible Controller
 - Available Upgrades:
 - » IP Communication Network Module
 - » MS/TP Communication Network Module
 - » Remote Keypad
 - » Remote Keypad with Touchscreen

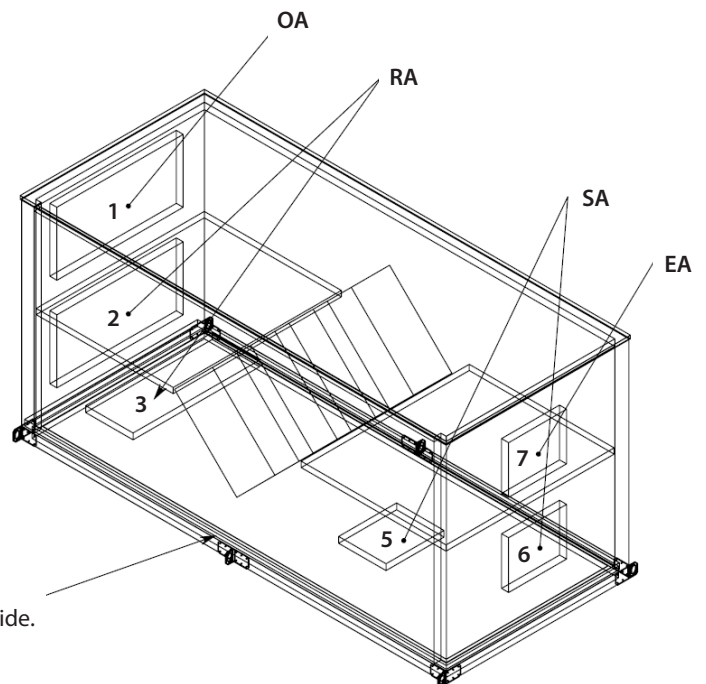
Components & Configurations



| AVAILABLE CONFIGURATIONS |
|--------------------------|
| 1-2-6-7 |
| 1-3-5-7 |
| 1-3-6-7 |
| 1-2-5-7 |

Mirror Image Cabinet Also Available

| LEGEND | |
|--------|-------------|
| RA | Return Air |
| SA | Supply Air |
| OA | Outside Air |
| EA | Exhaust Air |



Access internal components on this side.

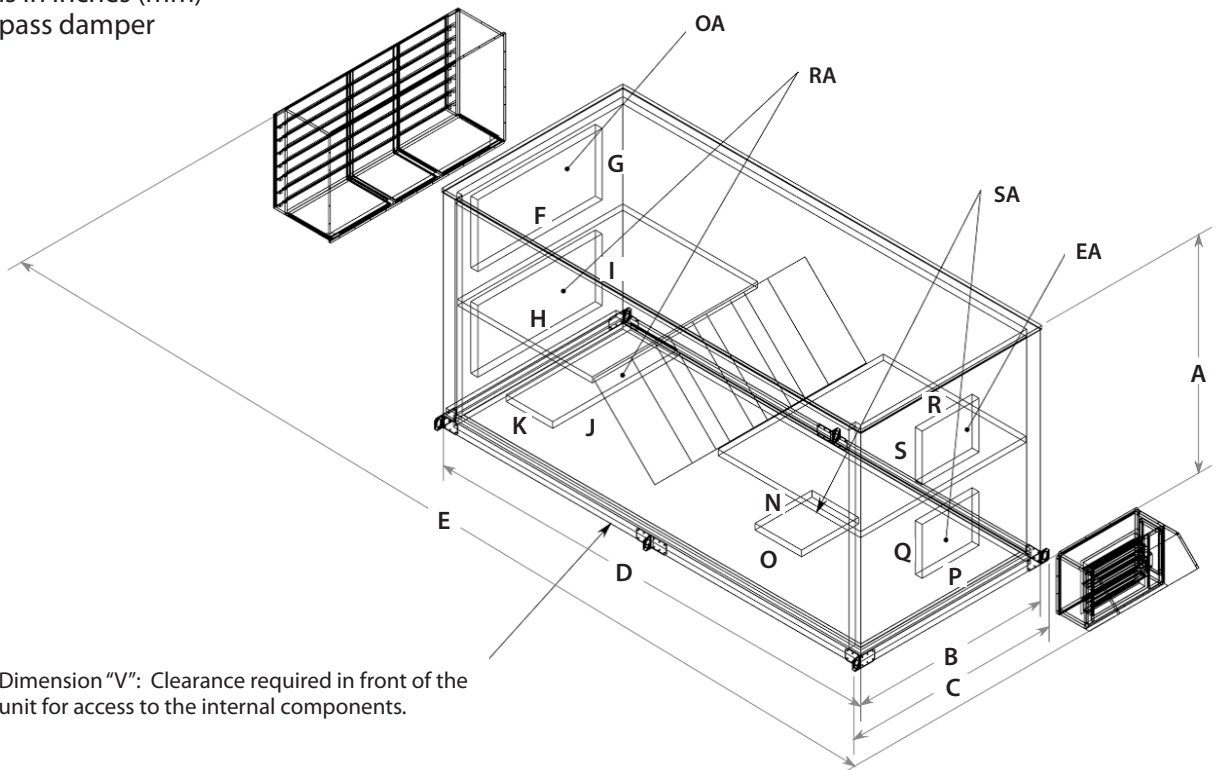
Dimensions & Weights

| CABINET* | | | | | | | | | | | | | | | | | |
|------------|-----------------|-------------|--------------|-----------------|--------------------|---------------------------------|--------------|-----------------|-------------------------|---------------------------------|--------------|-----------------|--------------------------|---------------------------------|--------------|--------------------------|-----------|
| Unit | Height | Width | | | | Length | | | | | | | | | | | V |
| | A | B | Overall | | Overall - Standard | | | | Overall - 1 Coil Option | | | | Overall - 2 Coils Option | | | | |
| | | | C | D | E | | D | E | | D | E | | | | | | |
| Overall | Base - Standard | Standard | Hoods Option | Base - Standard | Standard | Motorized Exhaust Damper Option | Hoods Option | Base - Standard | Standard | Motorized Exhaust Damper Option | Hoods Option | Base - Standard | Standard | Motorized Exhaust Damper Option | Hoods Option | Front Clearance Required | |
| CH2000 | 70.9 (1801) | 52.4 (1331) | 58.3 (1480) | 58.5 (1486) | 101.7 (2583) | 105.1 (2670) | 111.8 (2840) | 142.1 (3609) | 121.7 (3091) | 124.9 (3172) | 131.8 (3348) | 162.1 (4117) | 141.7 (3599) | 144.9 (3680) | 151.8 (3856) | 182.1 (4625) | 47 (1194) |
| CH2000BP** | 70.9 (1801) | 64.5 (1638) | 70.5 (1791) | 70.5 (1791) | 101.7 (2583) | 105.1 (2670) | 111.8 (2840) | 142.1 (3609) | 121.7 (3091) | 124.9 (3172) | 131.8 (3348) | 162.1 (4117) | 141.7 (3599) | 144.9 (3680) | 151.8 (3856) | 182.1 (4625) | 47 (1194) |

| OPENINGS | | | | | | | | | | | | | | | |
|------------|----------|----------|----------|----------|----------|----------|-----|-----|----------|----------|----------|----------|----------|----------|--|
| Unit | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | |
| CH2000 | 28 (711) | 12 (305) | 28 (711) | 12 (305) | 28 (711) | 12 (305) | N/A | N/A | 18 (457) | 16 (406) | 18 (457) | 16 (406) | 18 (457) | 16 (406) | |
| CH2000BP** | 28 (711) | 12 (305) | 28 (711) | 12 (305) | 28 (711) | 12 (305) | N/A | N/A | 18 (457) | 16 (406) | 18 (457) | 16 (406) | 18 (457) | 16 (406) | |

* All dimensions in inches (mm)

** Unit with bypass damper



Dimension "V": Clearance required in front of the unit for access to the internal components.

| WEIGHT - CH2000† | | |
|------------------|--------------------|--------------------|
| Unit Weight | Core | |
| | Polypropylene | Aluminum |
| Minimum | 1971 lbs (894 kg) | 2013 lbs (913 kg) |
| Maximum | 2805 lbs (1272 kg) | 2847 lbs (1291 kg) |

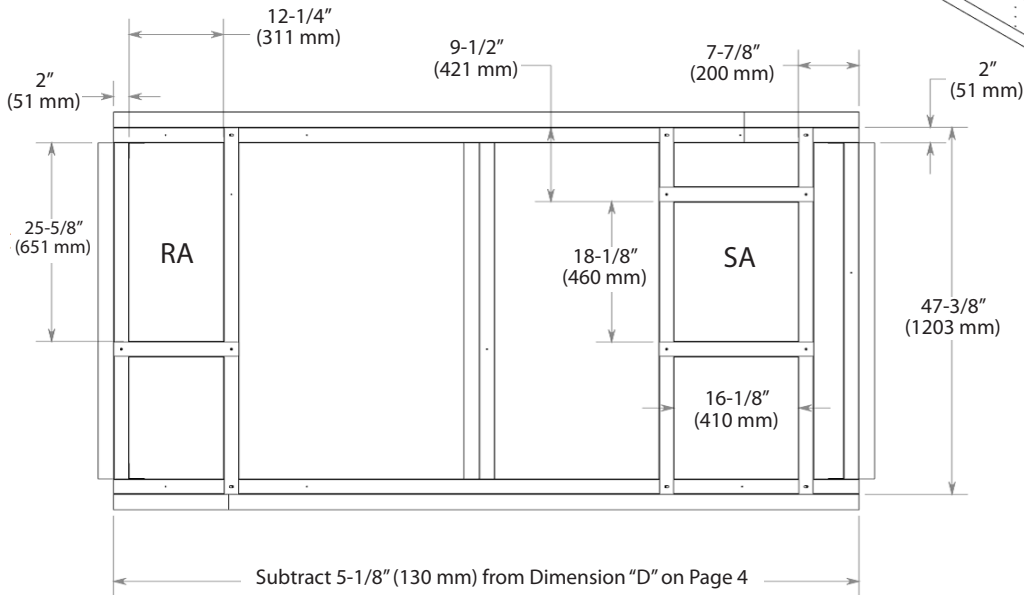
| WEIGHT - CH2000BP† | | |
|--------------------|--------------------|--------------------|
| Unit Weight | Core | |
| | Polypropylene | Aluminum |
| Minimum | 2307 lbs (1046 kg) | 2349 lbs (1065 kg) |
| Maximum | 3112 lbs (1412 kg) | 3154 lbs (1430 kg) |

† Actual weight may vary by ±10%. Shipping weight calculated after final selection. Roof curbs shipped separately.

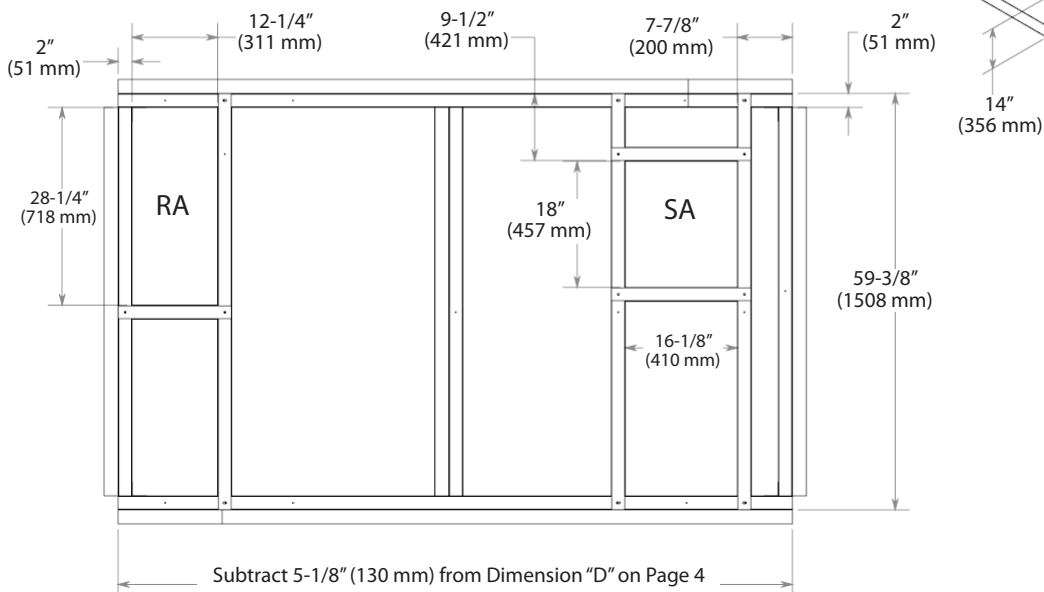
Roof Curb Dimensions

NOTE: Drawings not to scale

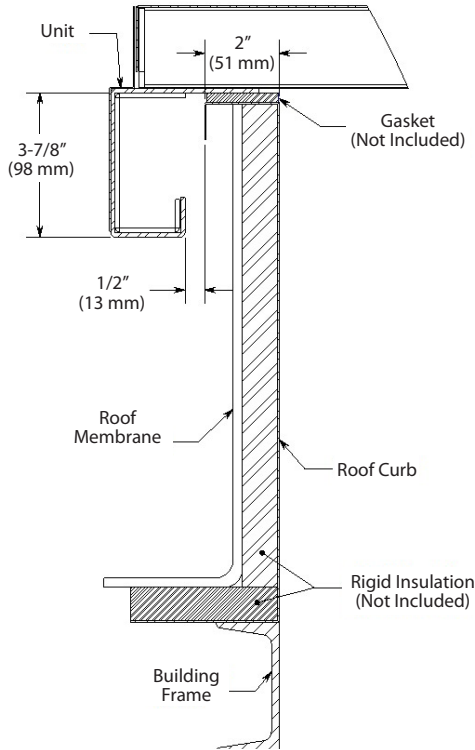
CH2000



CH2000BP

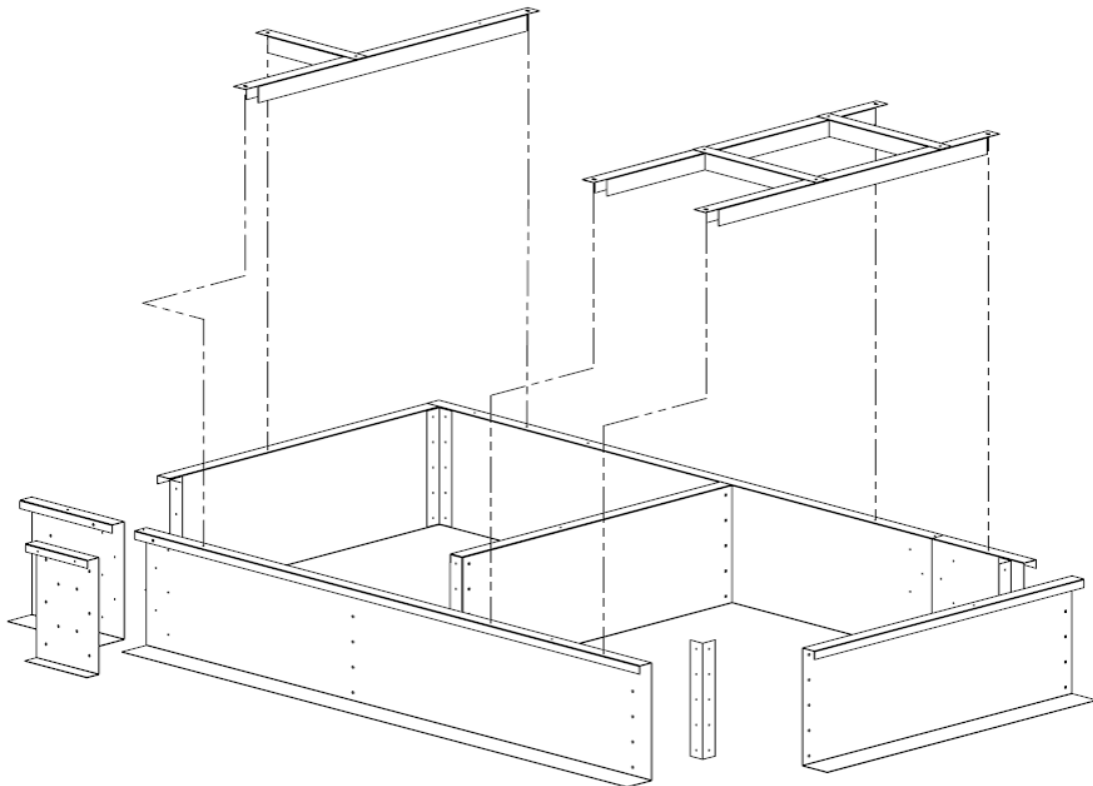


Roof Curb Assembly



| ROOF CURB WEIGHTS & DIMENSIONS | |
|---------------------------------|--|
| Unit | CH2000 |
| Roof Curb Weight | 130 lbs (59 kg) |
| Shipping Weight | 175 lbs (79 kg) |
| Shipping Dimensions (W x H x D) | 96" x 24" x 25" (2438 mm x 610 mm x 635 mm) |

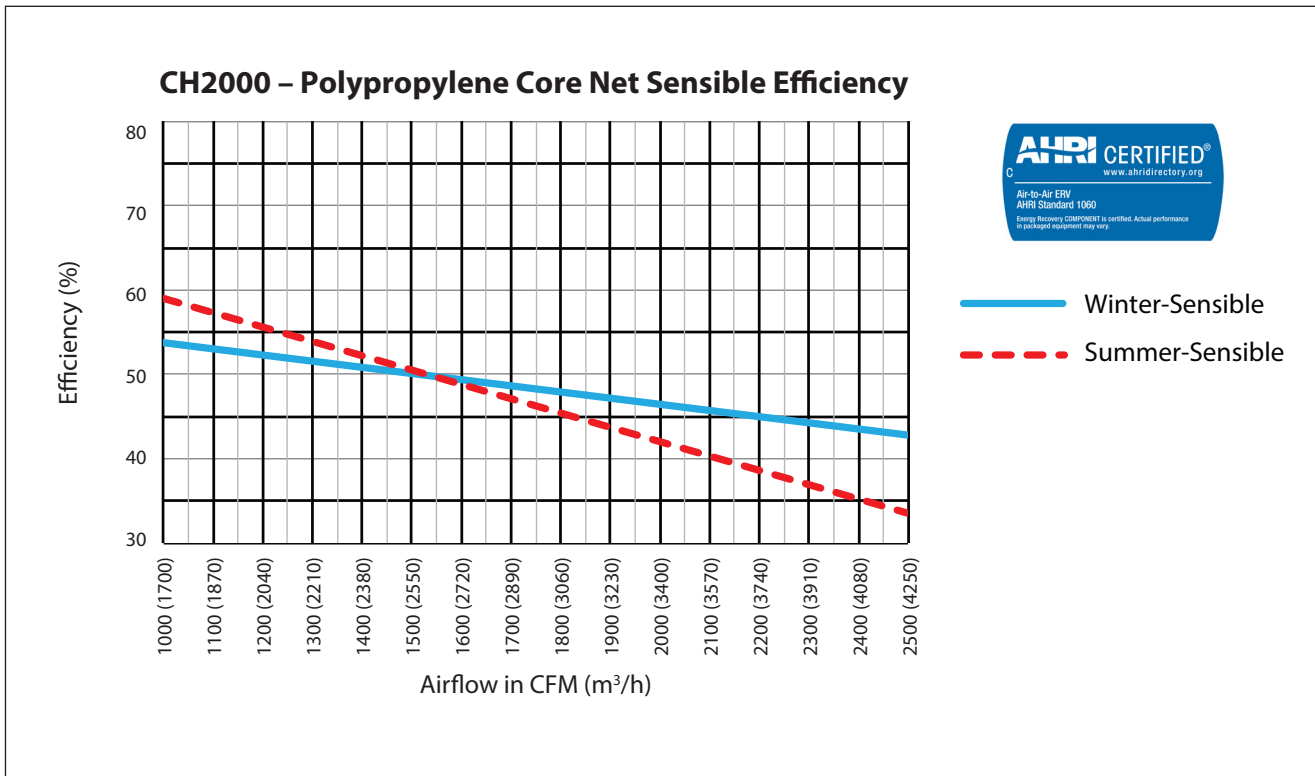
| ROOF CURB WEIGHTS & DIMENSIONS | |
|---------------------------------|--|
| Unit | CH2000BP |
| Roof Curb Weight | 140 lbs (64 kg) |
| Shipping Weight | 185 lbs (84 kg) |
| Shipping Dimensions (W x H x D) | 96" x 24" x 25" (2438 mm x 610 mm x 635 mm) |



Polypropylene Core Performance

| AHRI STANDARD CONDITIONS | CONDITIONS | |
|--------------------------|---------------|---------------|
| Outside Temperature | Winter | Summer |
| Dry Bulb | 35°F (1.7°C) | 95°F (35°C) |
| Wet Bulb | 33°F (0.6°C) | 78°F (25.6°C) |
| Exhaust Air Temperature | Winter | Summer |
| Dry Bulb | 70°F (21.1°C) | 75°F (23.9°C) |
| Wet Bulb | 58°F (14.4°C) | 63°F (17.2°C) |

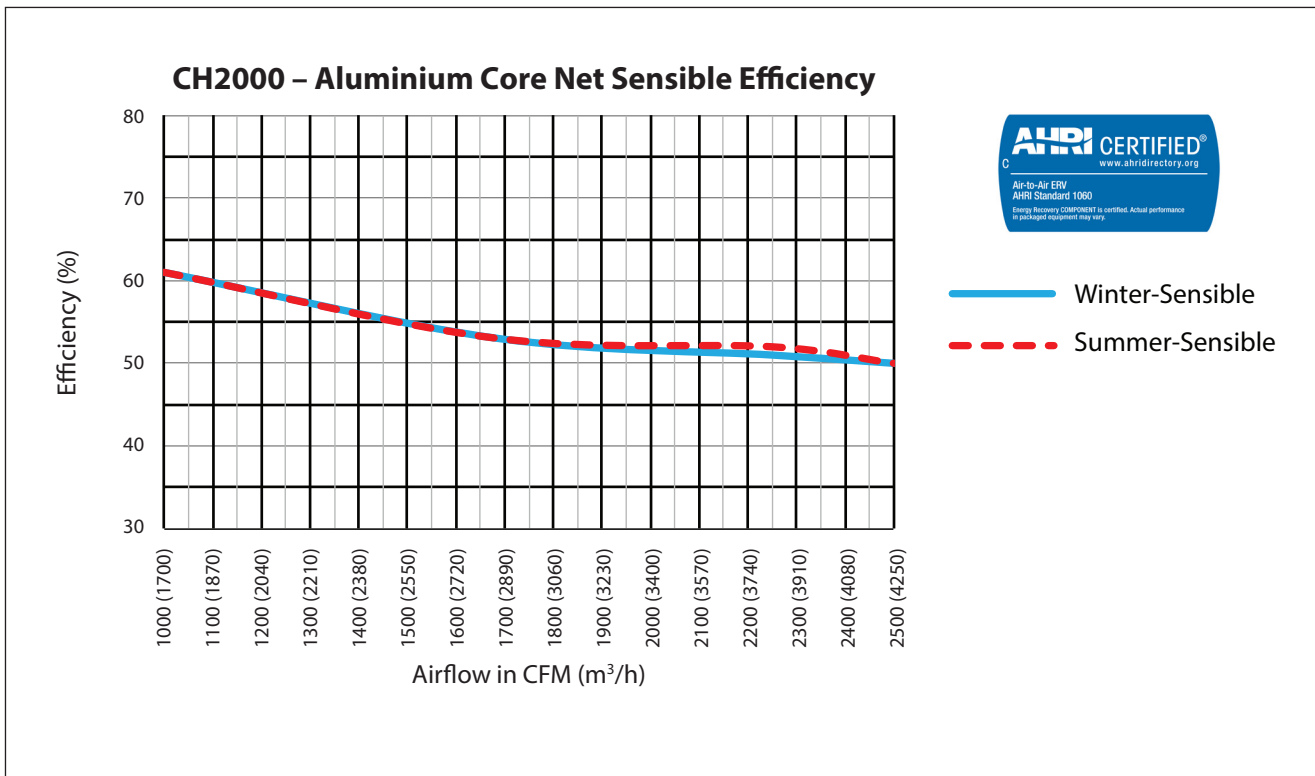
Note: Efficiencies are based on AHRI standard winter conditions.



Aluminum Core Performance

| AHRI STANDARDS CONDITIONS | CONDITIONS | |
|---------------------------|---------------|---------------|
| Outside Temperature | Winter | Summer |
| Dry Bulb | 35°F (1.7°C) | 95°F (35°C) |
| Wet Bulb | 33°F (0.6°C) | 78°F (25.6°C) |
| Exhaust Air Temperature | Winter | Summer |
| Dry Bulb | 70°F (21.1°C) | 75°F (23.9°C) |
| Wet Bulb | 58°F (14.4°C) | 63°F (17.2°C) |

Note: Efficiencies are based on AHRI standard winter conditions.



Motor Selection – Polypropylene Core

| SUPPLY | | | | | | | | | | | | | | | | | | | | |
|-------------|-------------------------|---|------|------|---------------|------|------|---------------|------|------|---------------|------|------|---------------|------|------|---------------|------|------|--------|
| MOTOR | AIRFLOW | EXTERNAL STATIC PRESSURE (IN H ₂ O) - SUPPLY | | | | | | | | | | | | | | | | | | MOTOR |
| | | 0.25 (60 Pa) | | | 0.50 (125 Pa) | | | 0.75 (185 Pa) | | | 1.00 (250 Pa) | | | 1.25 (310 Pa) | | | 1.50 (375 Pa) | | | |
| | CFM (m ³ /h) | RPM | BHP | HP | RPM | BHP | HP | RPM | BHP | HP | RPM | BHP | HP | RPM | BHP | HP | RPM | BHP | HP | |
| 3/4 hp | 1000 (1700) | 818 | 0.22 | 0.27 | 932 | 0.29 | 0.35 | 1032 | 0.36 | 0.43 | 1121 | 0.43 | 0.52 | 1201 | 0.51 | 0.61 | 1272 | 0.58 | 0.70 | 3/4 hp |
| | 1100 (1870) | 842 | 0.26 | 0.31 | 953 | 0.33 | 0.40 | 1051 | 0.41 | 0.49 | 1139 | 0.48 | 0.58 | 1220 | 0.57 | 0.68 | 1292 | 0.64 | 0.77 | 1 hp |
| | 1200 (2040) | 865 | 0.31 | 0.37 | 972 | 0.38 | 0.46 | 1069 | 0.46 | 0.55 | 1157 | 0.54 | 0.65 | 1238 | 0.63 | 0.76 | 1311 | 0.71 | 0.86 | |
| | 1300 (2210) | 888 | 0.35 | 0.42 | 992 | 0.43 | 0.52 | 1086 | 0.52 | 0.62 | 1174 | 0.60 | 0.72 | 1255 | 0.70 | 0.84 | 1329 | 0.78 | 0.94 | 1.5 hp |
| | 1400 (2380) | 910 | 0.41 | 0.49 | 1011 | 0.49 | 0.59 | 1103 | 0.58 | 0.69 | 1191 | 0.66 | 0.80 | 1271 | 0.77 | 0.92 | 1346 | 0.86 | 1.03 | |
| | 1500 (2550) | 932 | 0.46 | 0.55 | 1029 | 0.55 | 0.66 | 1120 | 0.64 | 0.77 | 1206 | 0.73 | 0.88 | 1287 | 0.84 | 1.01 | 1361 | 0.94 | 1.13 | |
| | 1600 (2720) | 953 | 0.52 | 0.63 | 1048 | 0.61 | 0.74 | 1136 | 0.71 | 0.85 | 1221 | 0.81 | 0.97 | 1301 | 0.92 | 1.10 | 1376 | 1.02 | 1.22 | |
| 1700 (2890) | 973 | 0.59 | 0.70 | 1065 | 0.68 | 0.82 | 1152 | 0.78 | 0.94 | 1236 | 0.88 | 1.06 | 1315 | 1.00 | 1.20 | 1389 | 1.10 | 1.33 | | |
| 1 hp | 1800 (3060) | 993 | 0.65 | 0.79 | 1082 | 0.75 | 0.90 | 1167 | 0.86 | 1.03 | 1249 | 0.96 | 1.15 | 1327 | 1.08 | 1.30 | 1401 | 1.19 | 1.43 | 2 hp |
| | 1900 (3230) | 1013 | 0.73 | 0.87 | 1099 | 0.83 | 1.00 | 1182 | 0.94 | 1.13 | 1262 | 1.05 | 1.26 | 1339 | 1.17 | 1.40 | 1412 | 1.29 | 1.54 | |
| | 2000 (3400) | 1032 | 0.80 | 0.96 | 1115 | 0.91 | 1.09 | 1196 | 1.02 | 1.23 | 1275 | 1.13 | 1.36 | 1350 | 1.26 | 1.52 | 1422 | 1.38 | 1.66 | |
| 1.5 hp | 2100 (3570) | 1050 | 0.88 | 1.06 | 1131 | 1.00 | 1.20 | 1209 | 1.11 | 1.33 | 1286 | 1.23 | 1.47 | 1360 | 1.36 | 1.63 | 1430 | 1.48 | 1.78 | 3 hp |
| | 2200 (3740) | 1068 | 0.97 | 1.16 | 1147 | 1.09 | 1.30 | 1223 | 1.20 | 1.45 | 1297 | 1.32 | 1.59 | 1369 | 1.46 | 1.75 | 1438 | 1.58 | 1.90 | |
| | 2300 (3910) | 1085 | 1.06 | 1.27 | 1162 | 1.18 | 1.42 | 1235 | 1.30 | 1.56 | 1307 | 1.42 | 1.71 | 1377 | 1.56 | 1.87 | 1444 | 1.69 | 2.03 | |
| | 2400 (4080) | 1101 | 1.15 | 1.38 | 1176 | 1.28 | 1.53 | 1247 | 1.40 | 1.68 | 1317 | 1.53 | 1.84 | 1385 | 1.67 | 2.00 | 1449 | 1.80 | 2.16 | |
| | 2500 (4250) | 1117 | 1.25 | 1.50 | 1190 | 1.38 | 1.66 | 1259 | 1.51 | 1.81 | 1326 | 1.64 | 1.97 | 1391 | 1.78 | 2.13 | 1453 | 1.91 | 2.29 | |

| EXHAUST | | | | | | | | | | | | | | | | | | | | |
|-------------|-------------------------|--|------|------|---------------|------|------|---------------|------|------|---------------|------|------|---------------|------|------|---------------|------|------|--------|
| MOTOR | AIRFLOW | EXTERNAL STATIC PRESSURE (IN H ₂ O) - EXHAUST | | | | | | | | | | | | | | | | | | MOTOR |
| | | 0.25 (60 Pa) | | | 0.50 (125 Pa) | | | 0.75 (185 Pa) | | | 1.00 (250 Pa) | | | 1.25 (310 Pa) | | | 1.50 (375 Pa) | | | |
| | CFM (m ³ /h) | RPM | BHP | HP | RPM | BHP | HP | RPM | BHP | HP | RPM | BHP | HP | RPM | BHP | HP | RPM | BHP | HP | |
| 3/4 hp | 1000 (1700) | 732 | 0.18 | 0.22 | 858 | 0.25 | 0.30 | 967 | 0.32 | 0.39 | 1065 | 0.39 | 0.47 | 1150 | 0.46 | 0.55 | 1227 | 0.53 | 0.64 | 3/4 hp |
| | 1100 (1870) | 747 | 0.21 | 0.25 | 868 | 0.28 | 0.34 | 976 | 0.36 | 0.43 | 1072 | 0.43 | 0.51 | 1158 | 0.50 | 0.60 | 1236 | 0.58 | 0.70 | 1 hp |
| | 1200 (2040) | 762 | 0.24 | 0.29 | 880 | 0.31 | 0.38 | 985 | 0.39 | 0.47 | 1080 | 0.47 | 0.56 | 1167 | 0.55 | 0.66 | 1246 | 0.63 | 0.76 | |
| | 1300 (2210) | 778 | 0.28 | 0.33 | 892 | 0.35 | 0.42 | 995 | 0.44 | 0.52 | 1089 | 0.51 | 0.62 | 1176 | 0.60 | 0.72 | 1256 | 0.69 | 0.83 | 1.5 hp |
| | 1400 (2380) | 795 | 0.32 | 0.38 | 906 | 0.40 | 0.47 | 1006 | 0.49 | 0.58 | 1098 | 0.56 | 0.68 | 1185 | 0.65 | 0.79 | 1266 | 0.75 | 0.90 | |
| | 1500 (2550) | 813 | 0.36 | 0.44 | 920 | 0.45 | 0.53 | 1018 | 0.54 | 0.65 | 1108 | 0.62 | 0.74 | 1195 | 0.72 | 0.86 | 1276 | 0.82 | 0.98 | |
| | 1600 (2720) | 832 | 0.42 | 0.50 | 935 | 0.50 | 0.60 | 1031 | 0.60 | 0.72 | 1119 | 0.68 | 0.82 | 1205 | 0.78 | 0.94 | 1286 | 0.89 | 1.07 | |
| | 1700 (2890) | 851 | 0.47 | 0.57 | 951 | 0.56 | 0.67 | 1044 | 0.66 | 0.79 | 1131 | 0.75 | 0.90 | 1216 | 0.86 | 1.03 | 1296 | 0.97 | 1.16 | |
| | 1 hp | 1800 (3060) | 871 | 0.53 | 0.64 | 967 | 0.63 | 0.75 | 1058 | 0.73 | 0.88 | 1143 | 0.82 | 0.99 | 1227 | 0.93 | 1.12 | 1307 | 1.05 | 1.26 |
| 1900 (3230) | | 892 | 0.60 | 0.72 | 985 | 0.70 | 0.84 | 1074 | 0.80 | 0.97 | 1157 | 0.90 | 1.08 | 1239 | 1.02 | 1.22 | 1317 | 1.14 | 1.36 | |
| 2000 (3400) | | 913 | 0.67 | 0.81 | 1004 | 0.77 | 0.93 | 1090 | 0.88 | 1.06 | 1171 | 0.99 | 1.18 | 1251 | 1.10 | 1.33 | 1328 | 1.23 | 1.47 | |
| 1.5 hp | 2100 (3570) | 935 | 0.75 | 0.90 | 1023 | 0.86 | 1.03 | 1107 | 0.97 | 1.16 | 1185 | 1.07 | 1.29 | 1264 | 1.20 | 1.44 | 1339 | 1.32 | 1.59 | 3 hp |
| | 2200 (3740) | 959 | 0.83 | 1.00 | 1044 | 0.94 | 1.13 | 1124 | 1.06 | 1.27 | 1201 | 1.17 | 1.40 | 1277 | 1.30 | 1.56 | 1350 | 1.42 | 1.71 | |
| | 2300 (3910) | 982 | 0.92 | 1.10 | 1065 | 1.04 | 1.24 | 1143 | 1.15 | 1.38 | 1217 | 1.27 | 1.52 | 1291 | 1.40 | 1.68 | 1361 | 1.53 | 1.84 | |
| 1.5 hp | 2400 (4080) | 1007 | 1.01 | 1.21 | 1087 | 1.13 | 1.36 | 1162 | 1.25 | 1.50 | 1234 | 1.38 | 1.65 | 1305 | 1.51 | 1.82 | 1372 | 1.64 | 1.97 | |
| | 2500 (4250) | 1032 | 1.11 | 1.33 | 1110 | 1.24 | 1.49 | 1183 | 1.36 | 1.63 | 1252 | 1.49 | 1.79 | 1319 | 1.64 | 1.95 | 1384 | 1.76 | 2.11 | |

NOTES:
 hp = bhp x 1.2
 See page 11 for Additional Pressure Drop (APD) with MERV 13 Filters

Motor Selection – Aluminum Core

| SUPPLY/EXHAUST | | | | | | | | | | | | | | | | | | | | |
|----------------|-------------|---|------|------|---------------|------|------|---------------|------|------|---------------|------|------|---------------|------|------|---------------|------|------|--------|
| MOTOR | AIRFLOW | EXTERNAL STATIC PRESSURE (IN H ₂ O) - SUPPLY/EXHAUST | | | | | | | | | | | | | | | | | | MOTOR |
| | | 0.25 (60 Pa) | | | 0.50 (125 Pa) | | | 0.75 (185 Pa) | | | 1.00 (250 Pa) | | | 1.25 (310 Pa) | | | 1.50 (375 Pa) | | | |
| | | CFM (m ³ /h) | RPM | BHP | HP | RPM | BHP | HP | RPM | BHP | HP | RPM | BHP | HP | RPM | BHP | HP | RPM | BHP | |
| 3/4 hp | 1000 (1700) | 806 | 0.22 | 0.27 | 922 | 0.28 | 0.34 | 1024 | 0.35 | 0.42 | 1114 | 0.43 | 0.52 | 1195 | 0.51 | 0.61 | 1268 | 0.58 | 0.70 | 3/4 hp |
| | 1100 (1870) | 817 | 0.25 | 0.30 | 930 | 0.31 | 0.38 | 1031 | 0.39 | 0.47 | 1121 | 0.47 | 0.57 | 1203 | 0.55 | 0.66 | 1277 | 0.63 | 0.76 | 1 hp |
| | 1200 (2040) | 828 | 0.28 | 0.34 | 938 | 0.35 | 0.42 | 1038 | 0.43 | 0.52 | 1127 | 0.52 | 0.62 | 1210 | 0.60 | 0.71 | 1286 | 0.69 | 0.82 | |
| | 1300 (2210) | 839 | 0.32 | 0.38 | 947 | 0.39 | 0.47 | 1045 | 0.48 | 0.57 | 1134 | 0.56 | 0.68 | 1218 | 0.65 | 0.78 | 1294 | 0.74 | 0.89 | |
| | 1400 (2380) | 851 | 0.36 | 0.43 | 956 | 0.43 | 0.52 | 1053 | 0.53 | 0.63 | 1142 | 0.61 | 0.74 | 1225 | 0.70 | 0.85 | 1303 | 0.81 | 0.97 | |
| | 1500 (2550) | 864 | 0.40 | 0.48 | 967 | 0.48 | 0.58 | 1061 | 0.58 | 0.70 | 1149 | 0.67 | 0.81 | 1233 | 0.77 | 0.92 | 1311 | 0.87 | 1.05 | 1.5 hp |
| | 1600 (2720) | 877 | 0.45 | 0.54 | 977 | 0.54 | 0.64 | 1070 | 0.64 | 0.76 | 1157 | 0.73 | 0.88 | 1241 | 0.83 | 1.00 | 1319 | 0.94 | 1.13 | |
| | 1700 (2890) | 891 | 0.51 | 0.61 | 989 | 0.59 | 0.71 | 1080 | 0.70 | 0.84 | 1166 | 0.80 | 0.96 | 1248 | 0.90 | 1.08 | 1326 | 1.01 | 1.22 | |
| | 1800 (3060) | 905 | 0.57 | 0.68 | 1001 | 0.66 | 0.79 | 1090 | 0.77 | 0.92 | 1174 | 0.87 | 1.04 | 1256 | 0.97 | 1.17 | 1333 | 1.09 | 1.31 | |
| | 1900 (3230) | 921 | 0.63 | 0.75 | 1013 | 0.73 | 0.87 | 1101 | 0.84 | 1.00 | 1183 | 0.94 | 1.13 | 1264 | 1.05 | 1.26 | 1340 | 1.17 | 1.41 | |
| 1 hp | 2000 (3400) | 936 | 0.70 | 0.84 | 1026 | 0.80 | 0.96 | 1112 | 0.91 | 1.09 | 1193 | 1.02 | 1.22 | 1272 | 1.14 | 1.36 | 1347 | 1.26 | 1.51 | 2 hp |
| | 2100 (3570) | 952 | 0.77 | 0.92 | 1040 | 0.87 | 1.05 | 1123 | 0.99 | 1.19 | 1202 | 1.10 | 1.32 | 1280 | 1.22 | 1.47 | 1354 | 1.35 | 1.62 | |
| 1.5 hp | 2200 (3740) | 969 | 0.84 | 1.01 | 1055 | 0.96 | 1.15 | 1135 | 1.07 | 1.29 | 1213 | 1.19 | 1.43 | 1288 | 1.31 | 1.58 | 1360 | 1.44 | 1.73 | |
| | 2300 (3910) | 987 | 0.92 | 1.11 | 1070 | 1.04 | 1.25 | 1148 | 1.16 | 1.39 | 1223 | 1.28 | 1.54 | 1296 | 1.41 | 1.69 | 1366 | 1.54 | 1.85 | |
| | 2400 (4080) | 1005 | 1.01 | 1.21 | 1086 | 1.13 | 1.36 | 1161 | 1.25 | 1.50 | 1234 | 1.38 | 1.65 | 1304 | 1.51 | 1.81 | 1372 | 1.64 | 1.97 | |
| | 2500 (4250) | 1024 | 1.10 | 1.32 | 1102 | 1.23 | 1.47 | 1175 | 1.35 | 1.62 | 1245 | 1.48 | 1.77 | 1312 | 1.62 | 1.94 | 1377 | 1.75 | 2.10 | 3 hp |

NOTES:

hp = bhp x 1.2

See page 11 for Additional Pressure Drop (APD) with MERV 13 Filters

Additional Air Pressure Drop with MERV 13 Filters

| Airflow CFM (m ³ /h) | APD in. H ₂ O (Pa) |
|---------------------------------|-------------------------------|
| 1000 (1700) | 0.04 (10) |
| 1100 (1870) | 0.05 (13) |
| 1200 (2040) | 0.06 (16) |
| 1300 (2210) | 0.08 (19) |
| 1400 (2380) | 0.09 (22) |
| 1500 (2550) | 0.10 (25) |
| 1600 (2720) | 0.11 (28) |
| 1700 (2890) | 0.12 (31) |

| Airflow CFM (m ³ /h) | APD in. H ₂ O (Pa) |
|---------------------------------|-------------------------------|
| 1800 (3060) | 0.14 (34) |
| 1900 (3230) | 0.15 (37) |
| 2000 (3400) | 0.16 (40) |
| 2100 (3570) | 0.17 (43) |
| 2200 (3740) | 0.19 (46) |
| 2300 (3910) | 0.20 (49) |
| 2400 (4080) | 0.21 (53) |
| 2500 (4250) | 0.22 (56) |

aldes ▲ = Standard Feature □ = Optional Feature (check the box to select this option) Send finished selection to Aldes Canada.

MODEL

Series: Advanced Commercial (CH) Nominal Capacity: 1000-2500 CFM Application: □ Interior (i) □ Exterior (e)

CASING & CORE

Cabinet Finish

- Painted
- Pool Construction

Supply & Exhaust Hoods

- Optional (exterior models)

Duct Configuration (see pg. 3)

- 1-2-6-7
- 1-3-5-7
- 1-3-6-7
- 1-2-5-7

Mirror Image Cabinet

- Optional

Roof Curb (exterior models)

- None
- Insulated
- Non-Insulated

Plate Exchanger

- Polypropylene
- Aluminum

Piping Connections

- Front
- Back

ELECTRICAL REQUIREMENTS

- 120V/1ph/60Hz
- 208V/1ph/60Hz
- 230V/1ph/60Hz
- 208V/3ph/60Hz
- 230V/3ph/60Hz
- 460V/3ph/60Hz
- 575V/3ph/60Hz

FILTERS

- MERV 8
- MERV 13 (Final Filter)

FROST CONTROL

- None
- Exhaust Defrost¹
- Recirculation¹
- Pre-Heat (Electric Coil)
- Pre-Heat (Hot Water Coil)
- Face & Bypass Damper

BLOWERS & MOTORS

Supply Blower

- 3/4 hp 2 hp
- 1 hp 3 hp
- 1.5 hp

Exhaust Blower

- 3/4 hp 2 hp
- 1 hp 3 hp
- 1.5 hp

Motor Type

- ODP, EPAAct²
- ODP, Premium³
- TEFC, EPAAct²
- TEFC, Premium⁴

Blower Type

- Forward Curved
- Backward Inclined

Blower Control

- Single Speed
- 2-Speed⁵
- Programmable 2-Speed (VFD)
- VFD

HEATING OPTIONS

- None
- Post-Heat (Electric Coil)
- Post-Heat (Hot Water Coil)

COOLING OPTIONS

- None
- Cold Water Cooling Coil
- DX Cooling Coil

ADD-ONS

- Motorized & Insulated Damper for EA
- Non-Insulated Backdraft Damper for EA
- Motorized & Insulated Damper for OA¹
- Terminals for OA and/or EA damper power and control (24VAC, 10VA)
- Low Temperature Limit
- Economizer Cycle
- Dirty Filters Contact
- Low Airflow Switch
- Phase Loss Detection
- Damper End Switch
- Recirculation Dry Contact⁶
- Programmable Timer
- CO₂ Sensor⁷
- Relative Humidity Sensor⁷
- BacNet Compatible Controller
 - With IP Module
 - With MS/TP Module
 - With Remote Keypad
 - With Remote Keypad (Touchscreen)
- Spare MERV 8 Filters QTY: _____
- Spare Belts QTY: _____

¹ OA Motorized & Insulated Damper included with exhaust defrost and recirculation
² EPAAct efficiency only available when Premium efficiency is not available (e.g., with single-phase motors)
³ ODP, Premium only available with ≥ 3 hp/ 3ph motors
⁴ TEFC, Premium only available with ≥ 1.5 hp/ 3ph motors
⁵ 2-Speed only available with ODP, EPAAct motors
⁶ Recirculation Dry Contact requires selection of recirculation defrost
⁷ Sequence of operations must be verified by factory

| | | | |
|----------------------|--|--------------------|--|
| Project: | | Architect: | |
| Location: | | Engineer: | |
| Model #: | | Contractor: | |
| Quantity: | | Comments: | |
| Submitted By: | | | |
| Date: | | | |

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