



ADVANCED COMMERCIAL CH6500 Heat Recovery Ventilator

PRODUCT
SPECIFICATIONS
& TECHNICAL
DATA

Standard Features



Interior Unit CH6500i



Exterior Unit CH6500e

NOMINAL CAPACITY

5500-7000 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

Material: Polypropylene

Quantity: 4

Pitch: 0.20" (5 mm)

Dimensions: 33.46" x 33.46" x 14.5"
(850 mm x 850 mm x 368 mm)



Material: Aluminum

Quantity: 4

Pitch: 0.20" (5 mm)

Dimensions: 33.46" x 33.46" x 14.5"
(850 mm x 850 mm x 368 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, EPAct or Premium
Maximum Power: 10 hp
Drive Assembly/Blower: On vibration-isolating springs

FILTERS

Type: MERV 8
Quantity: 6 per circuit
Dimensions: 16" x 20" x 4" (406 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:

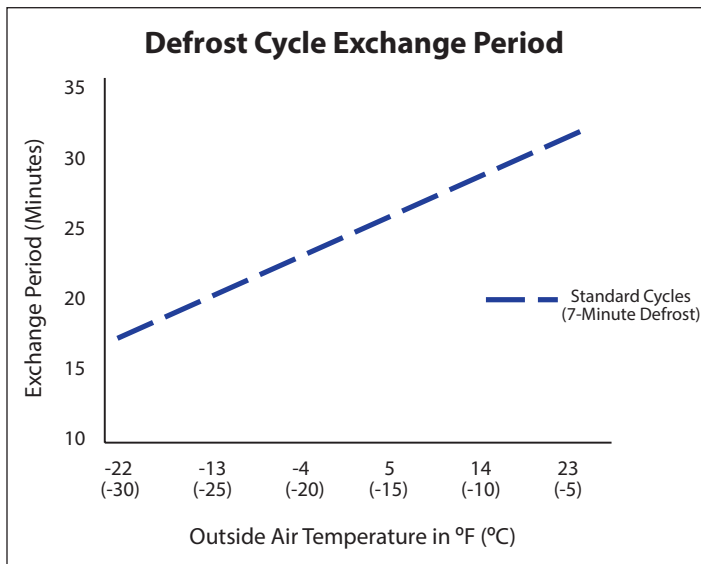
- 0-10 V signal on the control panel
- Front or back piping connections

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

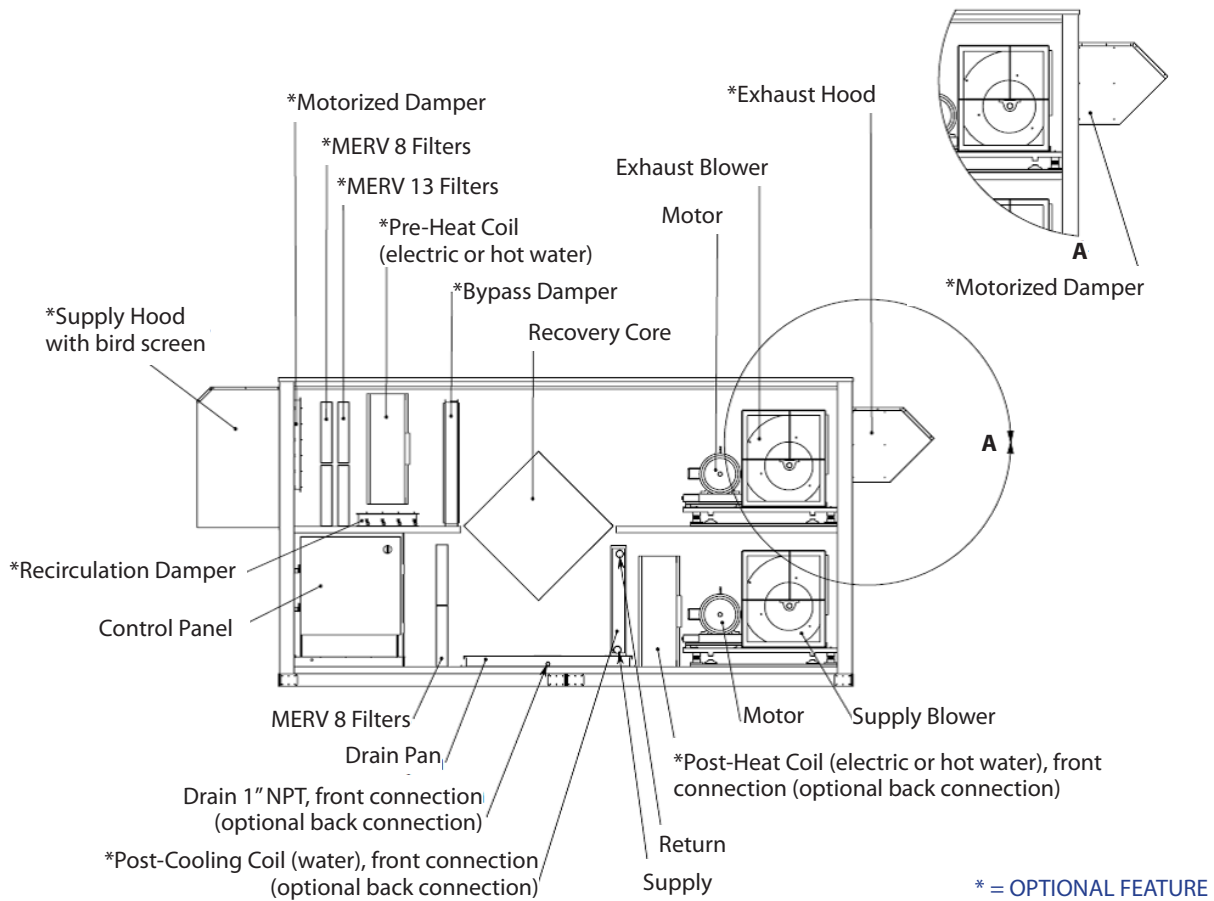
Control Options:

- 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

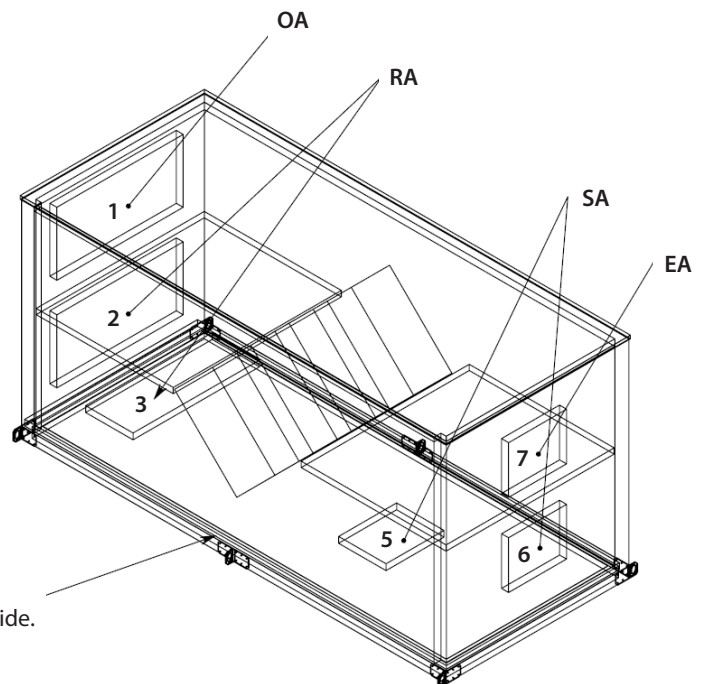
Components & Configurations



| 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 |



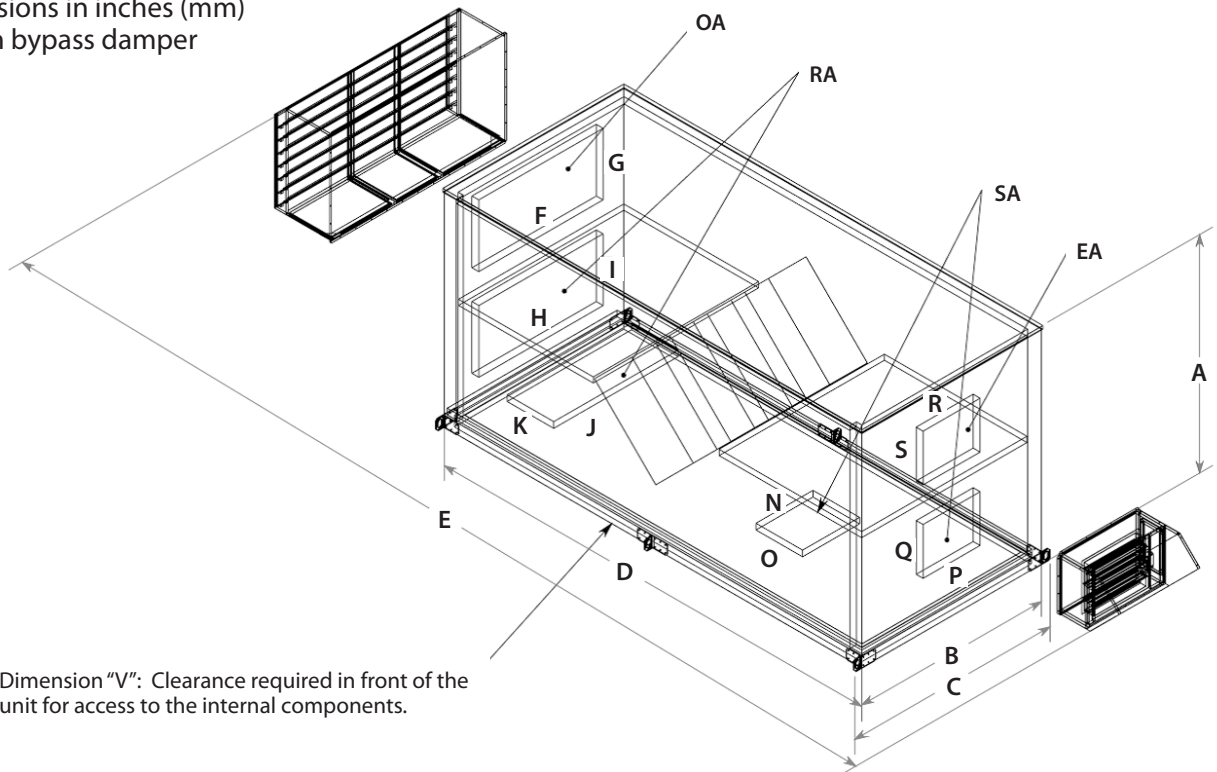
Access internal components on this side.

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 | | |
| CH6500 | 79.8 (2027) | 69.5 (1765) | 75.5 (1918) | 75.5 (1918) | 141.3 (3589) | 147.3 (3741) | 151.8 (3856) | 187.1 (4752) | 161.3 (4097) | 167.3 (4249) | 171.8 (4364) | 207.1 (5260) | 181.3 (4605) | 187.3 (4757) | 191.8 (4872) | 227.1 (5768) | 64 (1626) | |
| CH6500BP** | 79.8 (2027) | 81.5 (2070) | 87.5 (2223) | 87.5 (2223) | 141.3 (3589) | 147.3 (3741) | 151.8 (3856) | 187.1 (4752) | 161.3 (4097) | 167.3 (4249) | 171.8 (4364) | 207.1 (5260) | 181.3 (4605) | 187.3 (4757) | 191.8 (4872) | 227.1 (5768) | 64 (1626) | |

| OPENINGS | | | | | | | | | | | | | | | |
|------------|-----------|----------|-----------|----------|-----------|----------|-----|-----|----------|----------|----------|----------|----------|----------|--|
| Unit | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | |
| CH6500 | 48 (1219) | 24 (610) | 48 (1219) | 24 (610) | 48 (1219) | 18 (457) | N/A | N/A | 22 (559) | 18 (457) | 22 (559) | 18 (457) | 22 (559) | 18 (457) | |
| CH6500BP** | 48 (1219) | 24 (610) | 48 (1219) | 24 (610) | 48 (1219) | 18 (457) | N/A | N/A | 22 (559) | 18 (457) | 22 (559) | 18 (457) | 22 (559) | 18 (457) | |

* 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 - CH6500† | | |
|------------------|--------------------|--------------------|
| Unit Weight | Core | |
| | Polypropylene | Aluminum |
| Minimum | 3415 lbs (1549 kg) | 3657 lbs (1654 kg) |
| Maximum | 4701 lbs (2132 kg) | 4933 lbs (2238 kg) |

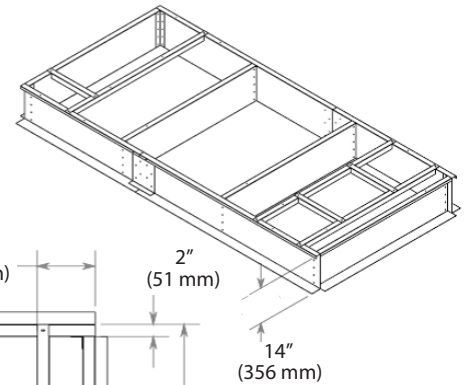
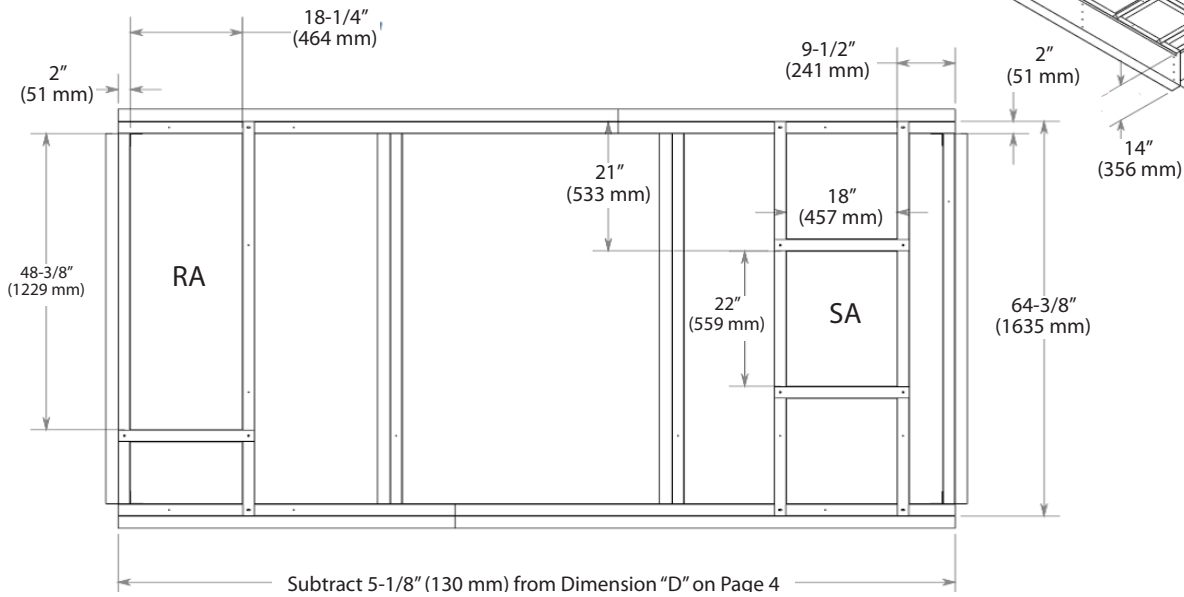
| WEIGHT - CH6500BP† | | |
|--------------------|--------------------|--------------------|
| Unit Weight | Core | |
| | Polypropylene | Aluminum |
| Minimum | 3942 lbs (1788 kg) | 4174 lbs (1893 kg) |
| Maximum | 5126 lbs (2325 kg) | 5358 lbs (2430 kg) |

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

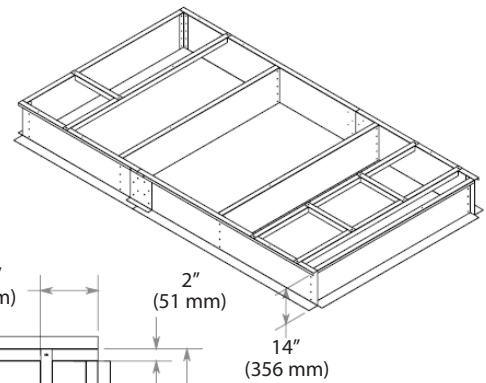
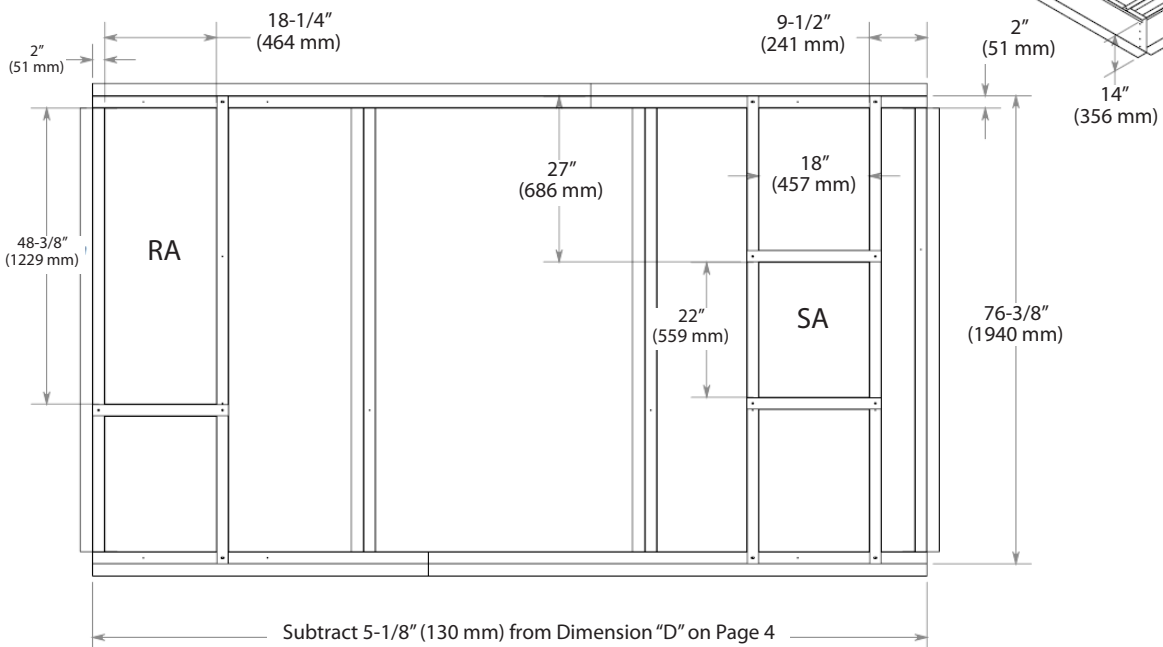
Roof Curb Dimensions

NOTE: Drawings not to scale

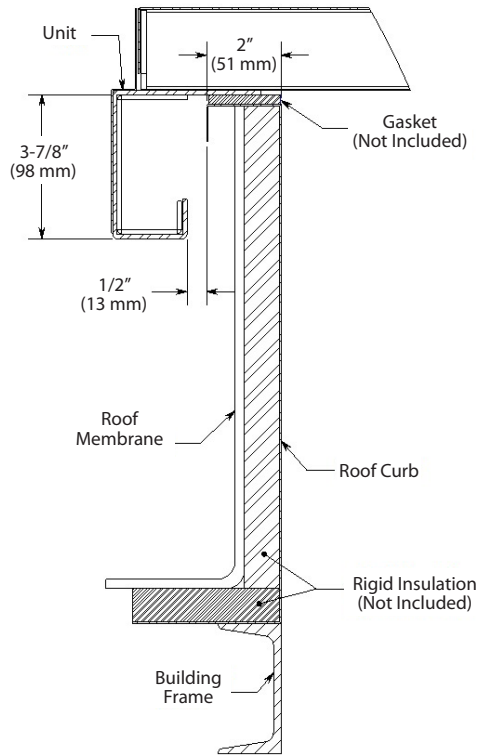
CH6500



CH6500BP

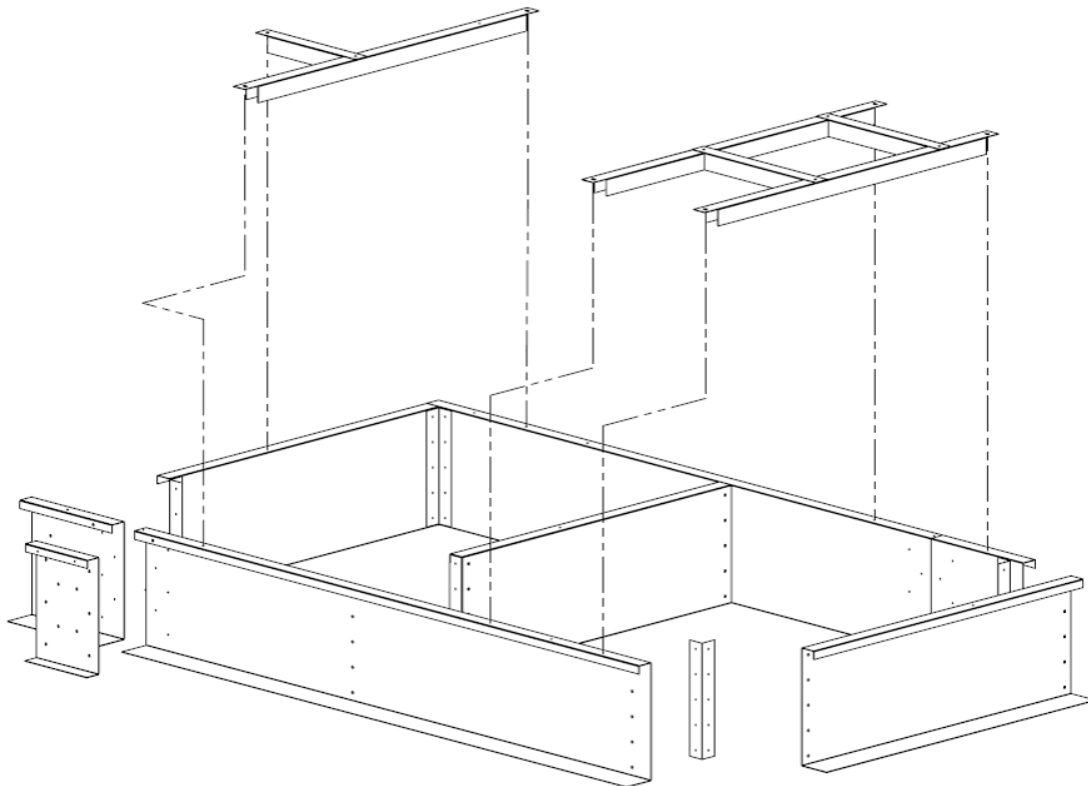


Roof Curb Assembly



| ROOF CURB WEIGHTS & DIMENSIONS | |
|---------------------------------|--|
| Unit | CH6500 |
| Roof Curb Weight | 185 lbs (84 kg) |
| Shipping Weight | 230 lbs (104 kg) |
| Shipping Dimensions (W x H x D) | 96" x 24" x 25" (2438 mm x 610 mm x 635 mm) |

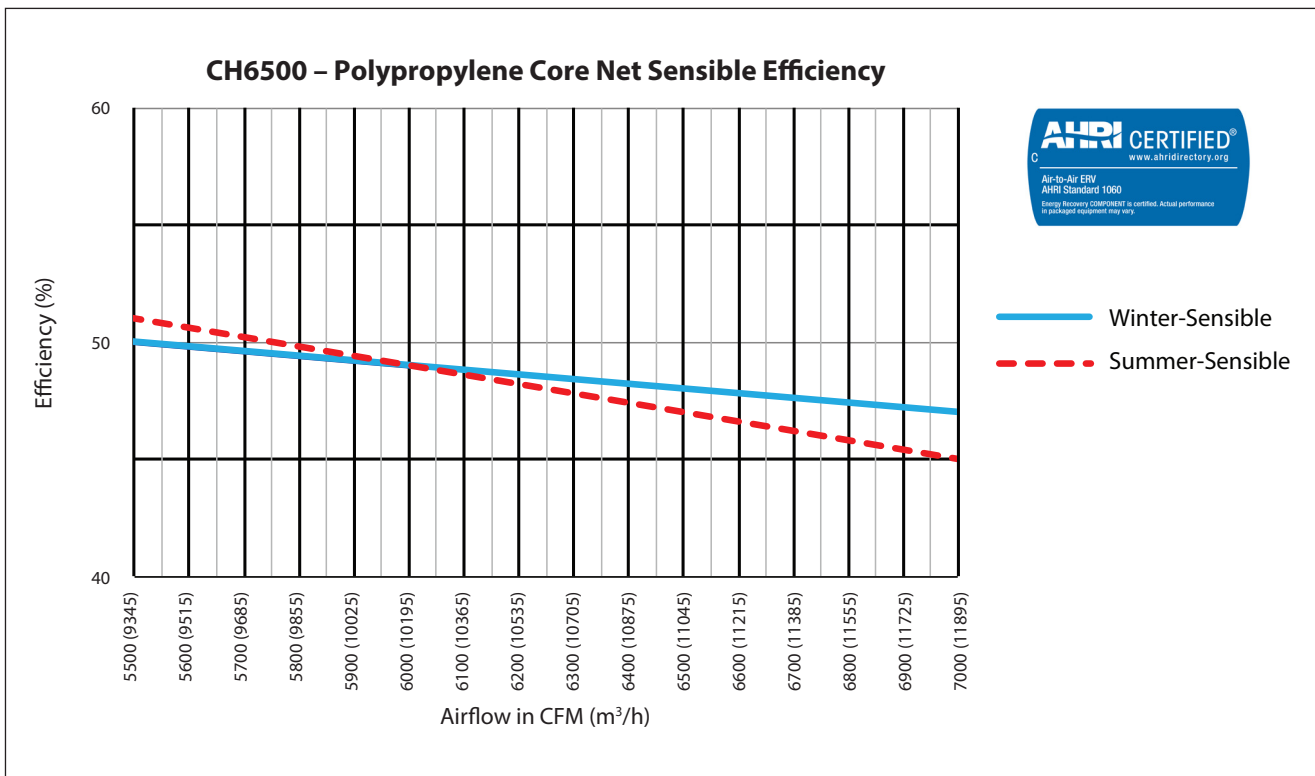
| ROOF CURB WEIGHTS & DIMENSIONS | |
|---------------------------------|--|
| Unit | CH6500BP |
| Roof Curb Weight | 215 lbs (98 kg) |
| Shipping Weight | 260 lbs (118 kg) |
| Shipping Dimensions (W x H x D) | 96" x 24" x 25" (2438 mm x 610 mm x 635 mm) |



Polypropylene Core Performance

| AHRI STANDARDS CONDITIONS | CONDITIONS | |
|---------------------------|---------------|---------------|
| | Winter | Summer |
| Outside Temperature | | |
| 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 | | |
| Dry Bulb | 70°F (21.1°C) | 75°F (23.9°C) |
| Wet Bulb | 58°F (14.4°C) | 63°F (17.2°C) |

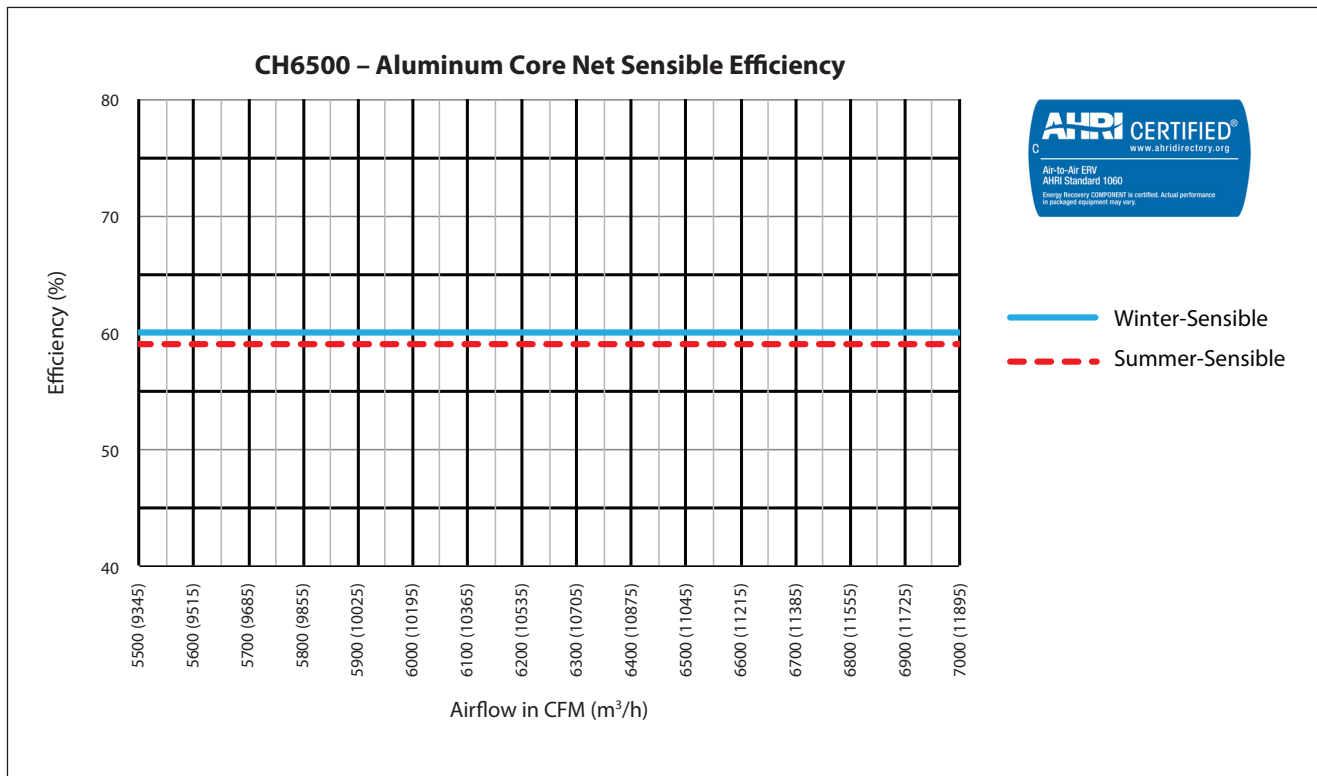
Note: Efficiencies are based on AHRI standard winter conditions.



Aluminum Core Performance

| AHRI STANDARD CONDITIONS | CONDITIONS | |
|--------------------------|---------------|---------------|
| | Winter | Summer |
| Outside Temperature | | |
| 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 | | |
| 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 |
| 5 hp | 5500 (9345) | 935 | 3.63 | 4.36 | 970 | 3.86 | 4.64 | 1008 | 4.09 | 4.90 | 1048 | 4.34 | 5.21 | 1091 | 4.60 | 5.52 | 1132 | 4.86 | 5.84 | 7.5 hp | |
| | 5600 (9515) | 947 | 3.80 | 4.56 | 981 | 4.03 | 4.83 | 1018 | 4.25 | 5.10 | 1057 | 4.51 | 5.41 | 1098 | 4.77 | 5.72 | 1138 | 5.04 | 6.04 | | |
| | 5700 (9685) | 959 | 3.97 | 4.76 | 992 | 4.20 | 5.04 | 1028 | 4.43 | 5.31 | 1066 | 4.68 | 5.62 | 1105 | 4.94 | 5.93 | 1145 | 5.21 | 6.26 | | |
| | 5800 (9855) | 970 | 4.14 | 4.97 | 1003 | 4.37 | 5.24 | 1037 | 4.60 | 5.52 | 1074 | 4.86 | 5.83 | 1113 | 5.12 | 6.15 | 1151 | 5.39 | 6.47 | | |
| 7.5 hp | 5900 (10025) | 982 | 4.33 | 5.19 | 1013 | 4.55 | 5.46 | 1047 | 4.78 | 5.74 | 1083 | 5.04 | 6.05 | 1120 | 5.30 | 6.36 | 1158 | 5.58 | 6.69 | | 10 hp |
| | 6000 (10195) | 993 | 4.51 | 5.41 | 1024 | 4.73 | 5.68 | 1056 | 4.97 | 5.96 | 1091 | 5.22 | 6.27 | 1127 | 5.49 | 6.59 | 1164 | 5.77 | 6.92 | | |
| | 6100 (10365) | 1005 | 4.70 | 5.64 | 1034 | 4.92 | 5.91 | 1066 | 5.16 | 6.19 | 1099 | 5.42 | 6.50 | 1135 | 5.68 | 6.82 | 1170 | 5.96 | 7.15 | | |
| | 6200 (10535) | 1016 | 4.90 | 5.88 | 1045 | 5.12 | 6.14 | 1075 | 5.35 | 6.42 | 1108 | 5.61 | 6.73 | 1142 | 5.87 | 7.05 | 1177 | 6.16 | 7.39 | | |
| | 6300 (10705) | 1027 | 5.10 | 6.12 | 1055 | 5.31 | 6.38 | 1085 | 5.55 | 6.66 | 1116 | 5.81 | 6.97 | 1149 | 6.07 | 7.29 | 1183 | 6.36 | 7.63 | | |
| | 6400 (10875) | 1038 | 5.30 | 6.36 | 1065 | 5.52 | 6.62 | 1094 | 5.76 | 6.91 | 1124 | 6.01 | 7.21 | 1156 | 6.28 | 7.53 | 1190 | 6.56 | 7.87 | | |
| | 6500 (11045) | 1049 | 5.51 | 6.61 | 1076 | 5.73 | 6.87 | 1103 | 5.96 | 7.16 | 1132 | 6.22 | 7.46 | 1164 | 6.48 | 7.78 | 1196 | 6.77 | 8.12 | | |
| | 6600 (11215) | 1060 | 5.72 | 6.87 | 1086 | 5.94 | 7.13 | 1112 | 6.18 | 7.41 | 1140 | 6.43 | 7.72 | 1171 | 6.70 | 8.04 | 1202 | 6.98 | 8.38 | | |
| 10 hp | 6700 (11385) | 1071 | 5.94 | 7.13 | 1096 | 6.16 | 7.39 | 1121 | 6.39 | 7.67 | 1149 | 6.65 | 7.98 | 1178 | 6.91 | 8.30 | 1209 | 7.20 | 8.64 | | |
| | 6800 (11555) | 1082 | 6.17 | 7.40 | 1106 | 6.38 | 7.66 | 1130 | 6.62 | 7.94 | 1157 | 6.87 | 8.24 | 1185 | 7.13 | 8.56 | 1215 | 7.42 | 8.90 | | |
| 10 hp | 6900 (11725) | 1093 | 6.40 | 7.68 | 1116 | 6.61 | 7.93 | 1139 | 6.84 | 8.21 | 1165 | 7.09 | 8.51 | 1192 | 7.36 | 8.83 | 1222 | 7.64 | 9.17 | | |
| | 7000 (11895) | 1103 | 6.63 | 7.95 | 1126 | 6.85 | 8.22 | 1148 | 7.07 | 8.49 | 1173 | 7.32 | 8.79 | 1199 | 7.59 | 9.11 | 1228 | 7.87 | 9.44 | | |

| 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 | |
| 5 hp | 5500 (9345) | 846 | 3.09 | 3.71 | 876 | 3.27 | 3.92 | 905 | 3.44 | 4.13 | 937 | 3.64 | 4.37 | 973 | 3.86 | 4.63 | 1011 | 4.10 | 4.92 | 5 hp |
| | 5600 (9515) | 858 | 3.24 | 3.89 | 888 | 3.42 | 4.11 | 916 | 3.60 | 4.32 | 947 | 3.80 | 4.55 | 982 | 4.02 | 4.82 | 1018 | 4.26 | 5.11 | |
| | 5700 (9685) | 870 | 3.40 | 4.08 | 900 | 3.59 | 4.30 | 928 | 3.76 | 4.52 | 957 | 3.96 | 4.75 | 991 | 4.18 | 5.01 | 1026 | 4.42 | 5.30 | |
| | 5800 (9855) | 882 | 3.56 | 4.27 | 912 | 3.75 | 4.50 | 939 | 3.93 | 4.72 | 968 | 4.13 | 4.95 | 1000 | 4.34 | 5.21 | 1034 | 4.59 | 5.50 | |
| | 5900 (10025) | 894 | 3.73 | 4.48 | 924 | 3.92 | 4.71 | 951 | 4.11 | 4.93 | 979 | 4.30 | 5.16 | 1010 | 4.52 | 5.42 | 1043 | 4.76 | 5.71 | |
| | 6000 (10195) | 906 | 3.90 | 4.68 | 936 | 4.10 | 4.92 | 962 | 4.29 | 5.15 | 990 | 4.48 | 5.38 | 1020 | 4.70 | 5.64 | 1052 | 4.94 | 5.93 | |
| | 6100 (10365) | 918 | 4.08 | 4.90 | 948 | 4.28 | 5.14 | 974 | 4.48 | 5.38 | 1001 | 4.67 | 5.61 | 1030 | 4.89 | 5.87 | 1060 | 5.13 | 6.16 | |
| 7.5 hp | 6200 (10535) | 931 | 4.27 | 5.12 | 960 | 4.47 | 5.36 | 986 | 4.67 | 5.61 | 1012 | 4.87 | 5.84 | 1040 | 5.08 | 6.10 | 1070 | 5.32 | 6.39 | 7.5 hp |
| | 6300 (10705) | 943 | 4.46 | 5.35 | 972 | 4.66 | 5.60 | 998 | 4.87 | 5.84 | 1023 | 5.07 | 6.08 | 1050 | 5.28 | 6.34 | 1079 | 5.52 | 6.63 | |
| | 6400 (10875) | 955 | 4.65 | 5.58 | 984 | 4.86 | 5.84 | 1010 | 5.07 | 6.09 | 1034 | 5.27 | 6.33 | 1061 | 5.49 | 6.59 | 1088 | 5.73 | 6.87 | |
| | 6500 (11045) | 967 | 4.85 | 5.82 | 996 | 5.07 | 6.08 | 1022 | 5.28 | 6.34 | 1046 | 5.49 | 6.58 | 1071 | 5.70 | 6.84 | 1098 | 5.94 | 7.13 | |
| | 6600 (11215) | 979 | 5.06 | 6.07 | 1008 | 5.28 | 6.34 | 1034 | 5.50 | 6.60 | 1057 | 5.70 | 6.85 | 1082 | 5.92 | 7.10 | 1108 | 6.16 | 7.39 | |
| | 6700 (11385) | 990 | 5.27 | 6.32 | 1020 | 5.50 | 6.60 | 1046 | 5.72 | 6.86 | 1069 | 5.93 | 7.12 | 1094 | 6.15 | 7.37 | 1119 | 6.38 | 7.66 | |
| | 6800 (11555) | 1002 | 5.48 | 6.58 | 1032 | 5.72 | 6.86 | 1058 | 5.94 | 7.13 | 1081 | 6.16 | 7.39 | 1105 | 6.38 | 7.65 | 1129 | 6.61 | 7.93 | |
| | 6900 (11725) | 1014 | 5.70 | 6.85 | 1044 | 5.95 | 7.14 | 1070 | 6.17 | 7.41 | 1093 | 6.40 | 7.68 | 1116 | 6.62 | 7.94 | 1140 | 6.85 | 8.22 | |
| 10 hp | 7000 (11895) | 1026 | 5.93 | 7.12 | 1056 | 6.18 | 7.42 | 1082 | 6.41 | 7.69 | 1105 | 6.64 | 7.97 | 1128 | 6.86 | 8.23 | 1151 | 7.09 | 8.51 | |

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 | | HP |
| 5 hp | 5500 (9345) | 901 | 3.42 | 4.11 | 933 | 3.62 | 4.34 | 969 | 3.84 | 4.61 | 1007 | 4.07 | 4.89 | 1047 | 4.32 | 5.19 | 1088 | 4.58 | 5.50 | 7.5 hp | |
| | 5600 (9515) | 914 | 3.59 | 4.31 | 945 | 3.79 | 4.55 | 980 | 4.01 | 4.81 | 1017 | 4.24 | 5.09 | 1056 | 4.50 | 5.39 | 1096 | 4.76 | 5.71 | | |
| | 5700 (9685) | 928 | 3.77 | 4.52 | 958 | 3.97 | 4.76 | 992 | 4.19 | 5.02 | 1027 | 4.42 | 5.30 | 1065 | 4.67 | 5.61 | 1104 | 4.94 | 5.93 | | |
| | 5800 (9855) | 941 | 3.95 | 4.74 | 971 | 4.15 | 4.98 | 1003 | 4.37 | 5.24 | 1038 | 4.61 | 5.53 | 1075 | 4.86 | 5.83 | 1113 | 5.13 | 6.15 | | |
| | 5900 (10025) | 955 | 4.14 | 4.96 | 983 | 4.34 | 5.21 | 1015 | 4.56 | 5.47 | 1049 | 4.80 | 5.76 | 1084 | 5.05 | 6.06 | 1121 | 5.32 | 6.39 | | |
| 7.5 hp | 6000 (10195) | 968 | 4.33 | 5.20 | 996 | 4.54 | 5.44 | 1027 | 4.76 | 5.71 | 1059 | 5.00 | 6.00 | 1094 | 5.25 | 6.30 | 1130 | 5.53 | 6.63 | | 10 hp |
| | 6100 (10365) | 982 | 4.54 | 5.44 | 1009 | 4.74 | 5.69 | 1039 | 4.96 | 5.96 | 1070 | 5.20 | 6.24 | 1104 | 5.46 | 6.55 | 1140 | 5.73 | 6.88 | | |
| | 6200 (10535) | 996 | 4.74 | 5.69 | 1022 | 4.95 | 5.94 | 1051 | 5.17 | 6.21 | 1082 | 5.41 | 6.50 | 1115 | 5.67 | 6.81 | 1149 | 5.95 | 7.14 | | |
| | 6300 (10705) | 1010 | 4.96 | 5.95 | 1035 | 5.17 | 6.20 | 1063 | 5.39 | 6.47 | 1093 | 5.63 | 6.76 | 1125 | 5.89 | 7.07 | 1159 | 6.17 | 7.41 | | |
| | 6400 (10875) | 1023 | 5.18 | 6.22 | 1048 | 5.39 | 6.47 | 1075 | 5.62 | 6.74 | 1105 | 5.86 | 7.03 | 1136 | 6.12 | 7.35 | 1169 | 6.40 | 7.68 | | |
| | 6500 (11045) | 1037 | 5.41 | 6.49 | 1062 | 5.62 | 6.75 | 1088 | 5.85 | 7.02 | 1117 | 6.09 | 7.31 | 1147 | 6.36 | 7.63 | 1179 | 6.63 | 7.96 | | |
| | 6600 (11215) | 1051 | 5.65 | 6.78 | 1075 | 5.86 | 7.03 | 1101 | 6.09 | 7.31 | 1129 | 6.33 | 7.60 | 1158 | 6.60 | 7.92 | 1189 | 6.88 | 8.25 | | |
| | 6700 (11385) | 1065 | 5.89 | 7.07 | 1088 | 6.10 | 7.32 | 1113 | 6.33 | 7.60 | 1141 | 6.58 | 7.89 | 1169 | 6.84 | 8.21 | 1200 | 7.12 | 8.55 | | |
| 6800 (11555) | 1079 | 6.14 | 7.37 | 1102 | 6.36 | 7.63 | 1126 | 6.59 | 7.90 | 1153 | 6.83 | 8.20 | 1181 | 7.10 | 8.52 | 1211 | 7.38 | 8.85 | | | |
| 10 hp | 6900 (11725) | 1093 | 6.40 | 7.68 | 1115 | 6.61 | 7.94 | 1139 | 6.84 | 8.21 | 1165 | 7.09 | 8.51 | 1192 | 7.36 | 8.83 | 1222 | 7.64 | 9.17 | | |
| | 7000 (11895) | 1107 | 6.66 | 7.99 | 1129 | 6.88 | 8.26 | 1152 | 7.11 | 8.53 | 1178 | 7.36 | 8.83 | 1204 | 7.63 | 9.15 | 1233 | 7.91 | 9.49 | | |

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) |
|---------------------------------|-------------------------------|
| 5500 (9345) | 0.20 (50) |
| 5600 (9515) | 0.21 (51) |
| 5700 (9685) | 0.21 (53) |
| 5800 (9855) | 0.22 (54) |
| 5900 (10025) | 0.22 (55) |
| 6000 (10195) | 0.23 (57) |
| 6100 (10365) | 0.23 (58) |
| 6200 (10535) | 0.24 (59) |

| Airflow CFM (m ³ /h) | APD in. H ₂ O (Pa) |
|---------------------------------|-------------------------------|
| 6300 (10705) | 0.24 (61) |
| 6400 (10875) | 0.25 (62) |
| 6500 (11045) | 0.25 (63) |
| 6600 (11215) | 0.26 (65) |
| 6700 (11385) | 0.27 (66) |
| 6800 (11555) | 0.27 (67) |
| 6900 (11725) | 0.28 (69) |
| 7000 (11895) | 0.28 (70) |



Selection Information

▲ = Standard Feature □ = Optional Feature (check the box to select this option) Send finished selection to American ALDES.

MODEL

Series: Advanced Commercial (CH) Nominal Capacity: 5500-7000 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 Defrost ¹
- Recirculation ¹
- Pre-Heat (Electric Coil)
- Pre-Heat (Hot Water Coil)
- Face & Bypass Damper

BLOWERS & MOTORS

Supply Blower

- 5 hp 10 hp
- 7.5 hp

Exhaust Blower

- 5 hp 10 hp
- 7.5 hp

Motor Type

- ODP, EPAAct ²
- ODP, Premium ³
- TEFC, EPAAct ²
- TEFC, Premium ⁴

Blower Type

- Forward Curved
- Backward Inclined

Blower Control

- Single Speed
- 2-Speed ⁵
- 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 Contact ⁶
- Programmable Timer
- CO₂ Sensor ⁷
- Relative Humidity Sensor ⁷
- 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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