LENNOX

ENGINEERING DATA

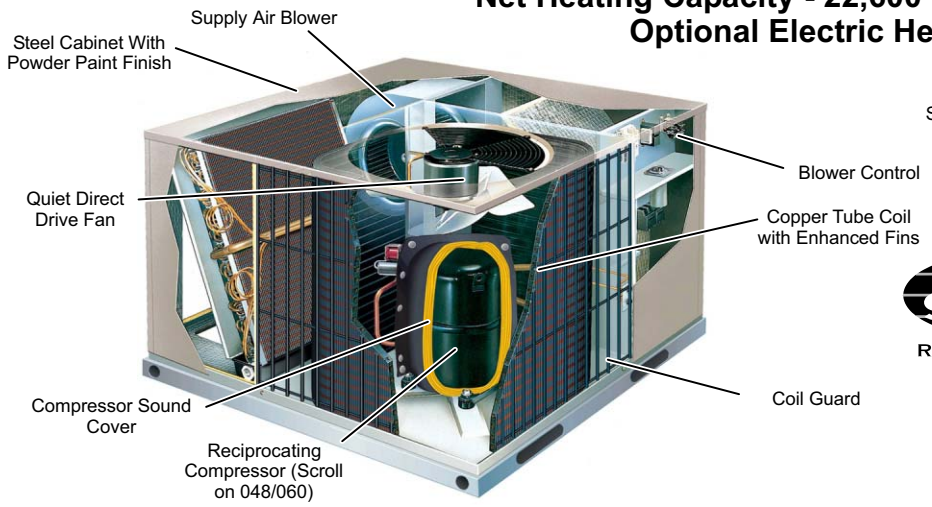
PACKAGED HEAT PUMPS

# 10CHP

## ELITE® SERIES - RESIDENTIAL

**SEER - 10.0**
**2 to 5 Tons**
**Net Cooling Capacity - 23,000 to 59,000 Btuh**
**Net Heating Capacity - 22,600 to 59,000 Btuh**
**Optional Electric Heat - 5 to 25 kW**

Bulletin No. 210251
February 2004
Supersedes February 2000




ISO 9001 REGISTERED QUALITY SYSTEMS

## MODEL NUMBER IDENTIFICATION

**10 CHP 024**

**Nominal SEER**

**Unit Type**
CHP = Packaged Heat Pump

**Nominal Cooling Capacity**
024 = 2 tons (7.0 kW)
030 = 2.5 tons (8.8 kW)
036 = 3 tons (10.6 kW)
042 = 3.5 tons (12.3 kW)
048 = 4 tons (14.1 kW)
060 = 5 tons (17.6 kW)

## FEATURES

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### APPLICATIONS

Designed for outdoor installations at ground level or rooftop for residential applications.

### WARRANTY

Compressor - 5 year limited warranty in residential applica tions, 1 year in non-residential applications.
All covered components - 5 year limited warranty in residential applications, 1 year in non-residential applications.
Refer to Lennox Equipment Limited Warranty Certificate in cluded with unit for specific details.

### APPROVALS

Ratings are certified by ETL.
Cooling ratings according to DOE test procedures.
Cooling ratings in accordance with ARI Standard 210/240.
Units are listed by ETL for U.S. and Canada.
Packaged unit and components within bonded for grounding to meet safety standards required by ETL.
ISO 9001 Registered Manufacturing Quality System.
Each unit test operated at the factory before shipment ensuring dependable operation at start-up.

### CONTROLS

Solid-state blower control.
Two pole contactor for improved reliability.
Trade available components.
Color coded wiring for easy service.

**Defrost Control**

Solid-state defrost control furnished as standard equipment.
Gives a defrost cycle (14 minutes) for every 30, 60 or 90 minutes (adjustable) of compressor “on” time at outdoor temperatures below 35°F (2°C).
Sensor mounted on liquid line determines when defrost cycle is required and also when to terminate cycle.

**Visit us at www.lennox.com**
**For the latest technical information, www.davenet.com**

## FEATURES

### REFRIGERATION SYSTEM

External service gauge ports.

**Compressor**

Heavy duty, high efficiency reciprocating compressor. Scroll compressor on 048 and 060 models.
Overload protected.
Running gear spring mounted within sealed housing (except 048 and 060 models).
Resiliently mounted on rubber mounts.
Compressor cover reduces operating sound levels.

**Indoor and Outdoor Coils**

Copper tube with enhanced fin coils.

**Outdoor Coil Fan**

Weather protected heavy duty condenser fan motor with aluminum fan for long life.
Totally enclosed motor.

### BLOWER

Insulated compartment to reduce sound.
Easy service split ring design with quick plug-in wiring.
Multi-speed motor for wide airflow range.
PSC pre-lubricated motor for low maintenance and maximum efficiency.
Dynamically balanced blower with resilient motor mounts for smooth and quiet operation.

### CABINET

Low Profile.
Compact footprint.
Fully insulated to minimize heat loss.
Powder paint for maximum durability.
Easy service access.
Coil guard furnished.
One piece “no leak” top design.
Interchangeable panel for horizontal to down-flow airflow conversion (shipped for horizontal).

### FILTER (REQUIRED)

Not furnished - must be field provided.
Filter rack furnished.

## OPTIONAL ACCESSORIES - MUST BE ORDERED EXTRA

### ELECTRIC HEAT (5-25 KW)

Field install internal to unit cabinet.
Available in several voltages and kw sizes.
See Electric Heat tables.
Helix wound nichrome heating elements exposed directly in air stream resulting in instant heat transfer, low element temperatures and long service life.
Supplemental thermal cutoff limit control, provides positive protection in case of excessive temperatures.
Factory assembled with controls installed and wired.

### CONTROLS

**Outdoor Thermostat Kit**

Outdoor thermostat can be used to lock out some electric heating elements on indoor units where two stage control is applicable.
Outdoor thermostat maintains heating load on low power input as long as possible before allowing full power load to come on line.
Thermostat kit and mounting box must be ordered extra.

**Timed-Off Control (5 minutes)**

Prevents compressor short-cycling and allows time for suction and discharge pressure to equalize.
Permits compressor start-up in an unloaded condition.
Automatic reset with 5 minute delay between compressor shut-off and start-up.

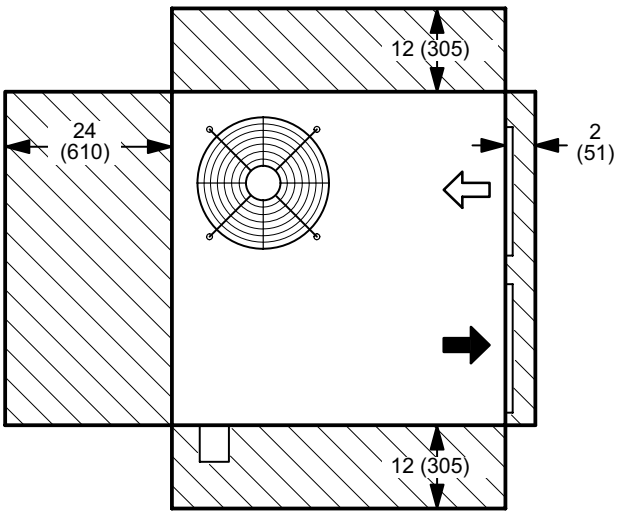
**High Pressure Switch Kit**

Shuts off unit if abnormal operating conditions cause the discharge pressure to rise above setting.
Protects compressor from excessive condensing pressure.
Automatic reset.

**Thermostat**

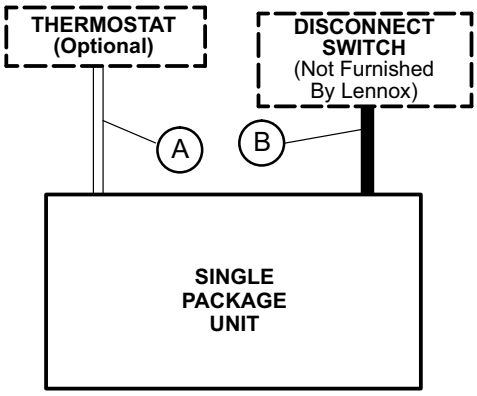
Not furnished must be ordered extra.

## INSTALLATION CLEARANCES - IN. (MM)




NOTE — Top Clearance Unobstructed.

## FIELD WIRING




NOTE - All wiring must conform to NEC or CEC and local electrical codes.
A- Five Wire Low Voltage (Electro-mechanical)
- Six Wire Low Voltage (Electronic)
B- Two Wire Power (See Electrical Data Table)
- Field Wiring Not Furnished -

## SPECIFICATIONS

| General Data | Model No. | 10CHP024 | 10CHP030 | 10CHP036 | 10CHP042 | 10CHP048 | 10CHP060 |
|---|---|---|---|---|---|---|---|
| | Nominal Tonnage | 2 | 2.5 | 3 | 3.5 | 4 | 5 |
| [1] ARI Cooling Ratings | Cooling Capacity — Btuh (kW) | 23,000 (6.7) | 29,000 (8.5) | 34,000 (10.0) | 40,000 (11.7) | 48,000 (14.1) | 59,000 (17.3) |
| | Total unit watts | 2500 | 3185 | 3775 | 4445 | 5335 | 6555 |
| | SEER (Btuh/Watts) | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| | EER (Btuh/Watts) | 9.2 | 9.1 | 9.0 | 9.0 | 9.0 | 9.0 |
| [1] ARI Certified High Temperature Heating Ratings | Total Capacity — Btuh (kW) | 22,600 (6.6) | 28,600 (8.4) | 34,000 (10.0) | 40,000 (11.7) | 47,000 (13.8) | 59,000 (17.3) |
| | Total unit watts | 2104 | 2700 | 3160 | 3660 | 4440 | 5760 |
| | C.O.P (Coefficient of Performance) | 3.1 | 3.1 | 3.15 | 3.2 | 3.1 | 3.0 |
| | HSPF — Region IV | 6.8 | 6.8 | 7.0 | 7.2 | 6.8 | 6.8 |
| [1] ARI Certified Low Temperature Heating Ratings | Total Capacity — Btuh (kW) | 12,600 (3.7) | 15,800 (4.6) | 21,000 (6.2) | 22,600 (6.6) | 27,600 (8.1) | 36,000 (10.5) |
| | Total unit watts | 1850 | 2310 | 2800 | 3010 | 4040 | 5275 |
| | C.O.P (Coefficient of Performance) | 2.0 | 2.0 | 2.2 | 2.2 | 2.0 | 2.0 |
| **Sound Rating Number (dB)** | | 76 | 76 | 80 | 80 | 80 | 80 |
| **Refrigerant Charge (HCFC-22)** | | 4 lbs. 11 oz. (2.1 kg) | 5 lbs 0 oz. (2.3 kg) | 5 lbs. 9 oz. (2.5 kg) | 6 lbs 6 oz. (2.9 kg) | 7 lbs. 6 oz. (3.3 kg) | 11 lbs 3 oz. (5.1 kg) |
| **Indoor Coil Blower** | Blower wheel size D x W in. (mm) | 10 x 6 (254 x 152) | 10 x 8 (254 x 203) | 10 x 8 (254 x 203) | 10 x 9 (254 x 229) | 12 x 10 (305 x 254) | 12 x 10 (305 x 254) |
| | Motor horsepower (W) | 1/2 (373) | 1/2 (373) | 1/2 (373) | 1/2 (373) | .9 (671) | .9 (671) |
| **Indoor Coil** | Net face area - sq. ft. ($m^2$) | 3.6 (0.33) | 3.6 (0.33) | 3.6 (0.33) | 4.2 (0.39) | 6.1 (0.57) | 6.1 (0.57) |
| | Tube dia. - in. (mm) & No. of rows | 5/16 (16.9) - 3 | 5/16 (16.9) - 3 | 3/8 (9.5) - 3 | 3/8 (9.5) - 3 | 3/8 (9.5) - 3 | 3/8 (9.5) - 3 |
| | Fins per inch (m) | 14 (551) | 14 (551) | 14 (551) | 14 (551) | 14 (551) | 14 (551) |
| **Outdoor Coil** | Net face area - sq. ft. ($m^2$) | 10.3 (0.96) | 12.3 (1.14) | 12.3 (1.14) | 14.4 (1.34) | 17.5 (1.63) | 17.5 (1.63) |
| | Tube dia. - in. (mm) & No. of rows | 5/16 (16.9) - 1 | 3/8 (9.5) - 1 | 3/8 (9.5) - 1 | 3/8 (9.5) - 1 | 3/8 (9.5) - 1 | 3/8 (9.5) - 2 |
| | Fins per inch (m) | 16 (630) | 20 (787) | 15 (591) | 15 (591) | 16 (630) | 15 (591) |
| **Outdoor Coil Fan** | Diameter - in. (mm) & No. of blades | 18 (457) - 4 | 18 (457) - 4 | 18 (457) - 4 | 18 (457) - 4 | 20 (508) - 4 | 20 (508) - 4 |
| | Air Volume - cfm (L/s) | 2100 (990) | 2100 (990) | 2300 (1085) | 2300 (1085) | 3000 (1415) | 3000 (1415) |
| | Motor horsepower (W) | 1/8 (93) | 1/8 (93) | 1/4 (187) | 1/4 (187) | 1/4 (187) | 1/4 (187) |
| | Motor watts | 170 | 170 | 250 | 250 | 325 | 325 |
| **Condensate drain size fpt -** in. (mm) | | (1) 3/4 (19) | (1) 3/4 (19) | (1) 3/4 (19) | (1) 3/4 (19) | (1) 3/4 (19) | (1) 3/4 (19) |
| [2] **Filters** | Number & size of filters - in. | (1) 24 x 25 x 1 | (1) 24 x 25 x 1 | (1) 24 x 25 x 1 | (1) 28 x 25 x 1 | (1) 30 x 30 x 1 | (1) 30 x 30 x 1 |
| | mm | 610 x 635 x 25 | 610 x 635 x 25 | 610 x 635 x 25 | 711 x 635 x 25 | 762 x 762 x 25 | 762 x 762 x 25 |
| **Net weight of basic unit -** lbs. (kg) | | 260 (118) | 280 (127) | 300 (136) | 330 (149) | 420 (195) | 440 (200) |
| **Shipping weight of basic unit -** lbs. (kg) (1 Package) | | 275 (125) | 295 (134) | 315 (143) | 345 (156) | 435 (197) | 455 (206) |
| **Electrical characteristics** | | 208/230V-1ph-60 hz | | | | | |

## ELECTRICAL DATA

| Electrical Data | Line voltage data - 60hz 1 phase | 208/230V | 208/230V | 208/230V | 208/230V | 208/230V | 208/230V |
|---|---|---|---|---|---|---|---|
| | [3] Maximum overcurrent protection (amps) | 25 | 30 | 30 | 35 | 45 | 55 |
| | [4] Minimum Circuit Ampacity | 16.0 | 20.6 | 21.8 | 26.6 | 34.0 | 41.6 |
| | Unit power factor | .97 | .96 | .98 | .95 | .98 | .98 |
| **Compressor** | Rated load amps | 9.8 | 13.7 | 13.8 | 17.1 | 21.8 | 27.8 |
| | Locked rotor amps | 56 | 75 | 78.8 | 105 | 131 | 170 |
| **Outdoor Coil Fan Motor** | Full load amps | 0.9 | 0.9 | 1.8 | 1.8 | 1.8 | 1.8 |
| | Locked rotor amps | 1.7 | 1.7 | 3.8 | 3.8 | 3.8 | 3.8 |
| **Indoor Coil Blower Motor** | Full load amps | 2.8 | 2.8 | 2.8 | 3.4 | 5.0 | 5.0 |
| | Locked rotor amps | 5.5 | 5.5 | 5.5 | 8.3 | 10.9 | 10.9 |

## OPTIONAL ACCESSORIES - MUST BE ORDERED EXTRA

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Supplemental Electric Heat - kW range** | | 05-07-10 | 05-07-10-15-20 | 05-07-10-15-20 | 05-07-10-15-20 | 10-15-20-25 | 10-15-20-25 |
| **Timed-Off Control** | | **42K90** | **42K90** | **42K90** | **42K90** | **42K90** | **42K90** |
| **Outdoor Thermostat Kit** | Thermostat Kit | **56A87** | **56A87** | **56A87** | **56A87** | **56A87** | **56A87** |
| | Mounting Box | **31461** | **31461** | **31461** | **31461** | **31461** | **31461** |
| **High Pressure Switch** | | **42K89** | **42K89** | **42K89** | **42K89** | **42K89** | **42K89** |

NOTE - Extremes of operating range are plus and minus 10% of line voltage.

[1] Rated in accordance with ARI Standard 210/240; 95°F (35°C) outdoor air temperature, 80°F (27°C) db / 67°F (19°C) wb entering evaporator air.

[2] Filters are not furnished and must be ordered extra.

[3] HACR type circuit breaker or fuse.

[4] Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirement

## ELECTRIC HEAT DATA

| Model Number | No. Steps | Input | | | 10CHP024 | | | 10CHP030 and 10CHP036 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Volt | kW | [1] Btuh | [2] Blower Motor Full Load Amps | [3] Minimum Circuit Ampacity | [4] Maximum Overcurrent Protection | [2] Blower Motor Full Load Amps | [3] Minimum Circuit Ampacity Circuit | | [4] Maximum Overcurrent Protection Circuit | |
| | | | | | | | | | 1 | 2 | 1 | 2 |
| **5 kW** ECH29-05 **71K18** 4 lbs. (2 kg) | 1 | 208 | 3.8 | 12,800 | 2.8 | 25.8 | 30 | 2.8 | 25.8 | - - - | 30 | - - - |
| | | 220 | 4.2 | 14,300 | 2.8 | 27.1 | 30 | 2.8 | 27.1 | - - - | 30 | - - - |
| | | 230 | 4.6 | 15,700 | 2.8 | 28.3 | 30 | 2.8 | 28.3 | - - - | 30 | - - - |
| | | 240 | 5.0 | 17,100 | 2.8 | 29.3 | 30 | 2.8 | 29.3 | - - - | 30 | - - - |
| **7 kW** ECH29-07 **74K64** 5 lbs. (2 kg) | 1 | 208 | 5.3 | 18,100 | 2.8 | 34.8 | 35 | 2.8 | 34.8 | - - - | 35 | - - - |
| | | 220 | 5.9 | 20,100 | 2.8 | 36.7 | 40 | 2.8 | 36.7 | - - - | 40 | - - - |
| | | 230 | 6.4 | 21,800 | 2.8 | 38.0 | 40 | 2.8 | 38.0 | - - - | 40 | - - - |
| | | 240 | 7.0 | 23,900 | 2.8 | 39.7 | 40 | 2.8 | 39.7 | - - - | 40 | - - - |
| **10 kW** ECH29-10 **71K19** 5 lbs. (2 kg) | 1 | 208 | 7.5 | 25,600 | 2.8 | 48.4 | 50 | 2.8 | 48.4 | - - - | 50 | - - - |
| | | 220 | 8.4 | 28,700 | 2.8 | 51.1 | 60 | 2.8 | 51.1 | - - - | 60 | - - - |
| | | 230 | 9.2 | 31,400 | 2.8 | 53.3 | 60 | 2.8 | 53.3 | - - - | 60 | - - - |
| | | 240 | 10.0 | 34,100 | 2.8 | 55.3 | 60 | 2.8 | 55.3 | - - - | 60 | - - - |
| **15 kW** ECH29-15 **71K20** 17 lbs. (8 kg) | 1 | 208 | 11.3 | 38,600 | Not Available | | | 2.8 | 48.4 | 22.6 | 50 | 25 |
| | | 220 | 12.6 | 43,000 | | | | 2.8 | 51.1 | 23.8 | 60 | 25 |
| | | 230 | 13.8 | 47,100 | | | | 2.8 | 53.3 | 25.0 | 60 | 30 |
| | | 240 | 15.0 | 51,200 | | | | 2.8 | 55.3 | 26.0 | 60 | 30 |
| **20 kW** ECH29-20 **71K21** 20 lbs. (9 kg) | 1 | 208 | 15.0 | 51,200 | Not Available | | | 2.8 | 48.4 | 45.1 | 50 | 50 |
| | | 220 | 16.8 | 57,300 | | | | 2.8 | 51.1 | 47.8 | 60 | 50 |
| | | 230 | 18.4 | 62,800 | | | | 2.8 | 53.3 | 50.0 | 60 | 60 |
| | | 240 | 20.0 | 68,300 | | | | 2.8 | 55.3 | 52.1 | 60 | 60 |

NOTE - Circuit 1 Minimum Circuit Ampacity includes the Blower Motor Full Load Amps.
[1] Electric heater capacity only — does not include additional blower motor heat capacity.
[2] Amps shown are for blower motor only.
[3] Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements. Use wires suitable for at least 167°F (75°C).
[4] HACR type circuit breaker or fuse.

| Model Number | No. Steps | Input | | | 10CHP042 | | | | 10CHP048 and 10CHP060 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Volts | kW | [1] Btuh | [2] Blower Motor Full Load Amps | [3] Minimum Circuit Ampacity Circuit | | [4] Maximum Overcurrent Protection Circuit | | [2] Blower Motor Full Load Amps | [3] Minimum Circuit Ampacity Circuit | | | [4] Maximum Overcurrent Protection Circuit | | |
| | | | | | | 1 | 2 | 1 | 2 | | 1 | 2 | 3 | 1 | 2 | 3 |
| **5 kW** ECH29-05 **71K18** 4 lbs. (2 kg) | 1 | 208 | 3.8 | 12,800 | 3.4 | 26.8 | - - - | 30 | - - - | Not Available | | | | | | |
| | | 220 | 4.2 | 14,300 | 3.4 | 28.1 | - - - | 30 | - - - | | | | | | | |
| | | 230 | 4.6 | 15,700 | 3.4 | 29.3 | - - - | 30 | - - - | | | | | | | |
| | | 240 | 5.0 | 17,100 | 3.4 | 30.3 | - - - | 35 | - - - | | | | | | | |
| **7 kW** ECH29-07 **74K64** 5 lbs. (2 kg) | 1 | 208 | 5.3 | 18,100 | 3.4 | 35.8 | - - - | 40 | - - - | Not Available | | | | | | |
| | | 220 | 5.9 | 20,100 | 3.4 | 37.7 | - - - | 40 | - - - | | | | | | | |
| | | 230 | 6.4 | 21,800 | 3.4 | 39.0 | - - - | 40 | - - - | | | | | | | |
| | | 240 | 7.0 | 23,900 | 3.4 | 40.7 | - - - | 50 | - - - | | | | | | | |
| **10 kW** ECH29-10 **71K19** 5 lbs. (2 kg) | 1 | 208 | 7.5 | 25,600 | 3.4 | 49.4 | - - - | 50 | - - - | 5.0 | 51.4 | - - - | - - - | 60 | - - - | - - - |
| | | 220 | 8.4 | 28,700 | 3.4 | 52.1 | - - - | 60 | - - - | 5.0 | 54.1 | - - - | - - - | 60 | - - - | - - - |
| | | 230 | 9.2 | 31,400 | 3.4 | 54.3 | - - - | 60 | - - - | 5.0 | 56.3 | - - - | - - - | 60 | - - - | - - - |
| | | 240 | 10.0 | 34,100 | 3.4 | 56.3 | - - - | 60 | - - - | 5.0 | 58.4 | - - - | - - - | 60 | - - - | - - - |
| **15 kW** ECH29-15 **71K20** 17 lbs. (8 kg) | 1 | 208 | 11.3 | 38,600 | 3.4 | 49.4 | 22.6 | 50 | 25 | 5.0 | 51.4 | 22.6 | - - - | 60 | 25 | - - - |
| | | 220 | 12.6 | 43,000 | 3.4 | 52.1 | 23.8 | 60 | 25 | 5.0 | 54.1 | 23.8 | - - - | 60 | 25 | - - - |
| | | 230 | 13.8 | 47,100 | 3.4 | 53.3 | 25.0 | 60 | 30 | 5.0 | 56.3 | 25.0 | - - - | 60 | 30 | - - - |
| | | 240 | 15.0 | 51,200 | 3.4 | 56.3 | 26.0 | 60 | 30 | 5.0 | 58.4 | 26.0 | - - - | 60 | 30 | - - - |
| **20 kW** ECH29-20 **71K21** 20 lbs. (9 kg) | 1 | 208 | 15.0 | 51,200 | 3.4 | 49.4 | 45.1 | 50 | 50 | 5.0 | 51.4 | 45.1 | - - - | 60 | 50 | - - - |
| | | 220 | 16.8 | 57,300 | 3.4 | 52.1 | 47.8 | 60 | 50 | 5.0 | 54.1 | 47.8 | - - - | 60 | 50 | - - - |
| | | 230 | 18.4 | 62,800 | 3.4 | 53.3 | 50.0 | 60 | 60 | 5.0 | 56.3 | 50.0 | - - - | 60 | 60 | - - - |
| | | 240 | 20.0 | 68,300 | 3.4 | 56.3 | 52.1 | 60 | 60 | 5.0 | 58.4 | 52.1 | - - - | 60 | 60 | - - - |
| **25 kW** ECH29-25 **71K22** 20 lbs. (9 kg) | 1 | 208 | 18.8 | 64,200 | Not Available | | | | | 5.0 | 51.7 | 45.1 | 22.6 | 60 | 50 | 25 |
| | | 220 | 21.0 | 71,700 | | | | | | 5.0 | 54.1 | 47.8 | 23.8 | 60 | 50 | 25 |
| | | 230 | 23.0 | 78,500 | | | | | | 5.0 | 56.3 | 50.0 | 25.0 | 60 | 60 | 30 |
| | | 240 | 25.0 | 85,300 | | | | | | 5.0 | 58.4 | 52.1 | 26.0 | 60 | 60 | 30 |

NOTE - Circuit 1 Minimum Circuit Ampacity includes the Blower Motor Full Load Amps.
[1] Electric heater capacity only — does not include additional blower motor heat capacity.
[2] Amps shown are for blower motor only.
[3] Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements. Use wires suitable for at least 167°F (75°C).
[4] HACR type circuit breaker or fuse.

## BLOWER DATA

### 10CHP024 BLOWER PERFORMANCE - [1] Horizontal Air Flow

| External Static Pressure | | Air Volume at Various Blower Speeds | | | | | |
|---|---|---|---|---|---|---|---|
| | | High | | Medium | | Low | |
| in. w.g. | Pa | cfm | L/s | cfm | L/s | cfm | L/s |
| .20 | 50 | 1100 | 520 | 940 | 445 | 850 | 400 |
| .30 | 75 | 1060 | 500 | 890 | 420 | 800 | 380 |
| .40 | 100 | 1000 | 470 | 870 | 410 | 790 | 375 |
| .50 | 125 | 940 | 445 | 840 | 395 | 770 | 365 |
| .60 | 150 | 880 | 415 | 800 | 380 | 750 | 355 |
| .70 | 175 | 800 | 380 | 720 | 385 | 670 | 315 |
| .80 | 200 | 720 | 340 | 660 | 310 | 600 | 285 |

NOTE — All air data is measured external to unit without air filters.
[1] For down-flow air volume, add 0.10 in. w.g. (25 Pa) to duct static.

### 10CHP030 AND 10CHP036 BLOWER PERFORMANCE - [1] Horizontal Air Flow

| External Static Pressure | | Air Volume at Various Blower Speeds | | | | | |
|---|---|---|---|---|---|---|---|
| | | High | | Medium | | Low | |
| in. w.g. | Pa | cfm | L/s | cfm | L/s | cfm | L/s |
| .20 | 50 | 1400 | 660 | 1160 | 545 | 1050 | 495 |
| .30 | 75 | 1350 | 635 | 1120 | 530 | 1020 | 480 |
| .40 | 100 | 1280 | 605 | 1080 | 510 | 1000 | 470 |
| .50 | 125 | 1200 | 565 | 1030 | 485 | 950 | 450 |
| .60 | 150 | 1120 | 530 | 980 | 460 | 910 | 430 |
| .70 | 175 | 1030 | 485 | 900 | 425 | 840 | 395 |
| .80 | 200 | 920 | 435 | 780 | 370 | 750 | 355 |

NOTE — All air data is measured external to unit without air filters.
[1] For down-flow air volume, add 0.10 in. w.g. (25 Pa) to duct static.

### 10CHP042 BLOWER PERFORMANCE - [1] Horizontal Air Flow

| External Static Pressure | | Air Volume at Various Blower Speeds | | | | | |
|---|---|---|---|---|---|---|---|
| | | High | | Medium | | Low | |
| in. w.g. | Pa | cfm | L/s | cfm | L/s | cfm | L/s |
| .20 | 50 | 1640 | 775 | 1570 | 740 | 1480 | 700 |
| .30 | 75 | 1560 | 735 | 1500 | 710 | 1430 | 675 |
| .40 | 100 | 1500 | 710 | 1440 | 680 | 1360 | 640 |
| .50 | 125 | 1400 | 660 | 1340 | 630 | 1290 | 610 |
| .60 | 150 | 1300 | 615 | 1270 | 600 | 1230 | 580 |
| .70 | 175 | 1260 | 595 | 1200 | 565 | 1170 | 550 |
| .80 | 200 | 1160 | 545 | 1100 | 520 | 1050 | 495 |

NOTE — All air data is measured external to unit without air filters.
[1] For down-flow air volume, add 0.10 in. w.g. (25 Pa) to duct static.

### 10CHP048 AND 10CHP060 BLOWER PERFORMANCE - [1] Horizontal Air Flow

| External Static Pressure | | Air Volume at Various Blower Speeds | | | | | |
|---|---|---|---|---|---|---|---|
| | | High | | Medium | | Low | |
| in. w.g. | Pa | cfm | L/s | cfm | L/s | cfm | L/s |
| .20 | 50 | 2150 | 1015 | 1920 | 905 | 1750 | 825 |
| .30 | 75 | 2100 | 990 | 1870 | 880 | 1720 | 810 |
| .40 | 100 | 2030 | 960 | 1790 | 845 | 1650 | 780 |
| .50 | 125 | 1950 | 920 | 1730 | 815 | 1600 | 755 |
| .60 | 150 | 1875 | 885 | 1650 | 780 | 1550 | 730 |
| .70 | 175 | 1750 | 825 | 1580 | 745 | 1480 | 700 |
| .80 | 200 | 1650 | 780 | 1500 | 710 | 1400 | 660 |

NOTE — All air data is measured external to unit without air filters.
[1] For down-flow air volume, add 0.10 in. w.g. (25 Pa) to duct static.

## RATINGS

NOTE - For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

### 10CHP024 COOLING CAPACITY

| Entering Wet Bulb Temperature | Total Air Volume | | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 85°F (29°C) | | | | | | 95°F (35°C) | | | | | | 105°F (41°C) | | | | | | 115°F (46°C) | | | | | |
| | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | |
| | cfm | L/s | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C |
| 63°F (17°C) | 700 | 330 | 22.5 | 6.6 | 1910 | 0.76 | 0.91 | 1.00 | 20.9 | 6.1 | 2010 | 0.77 | 0.91 | 1.00 | 17.6 | 5.2 | 2080 | 0.89 | 0.92 | 1.00 | 15.4 | 4.5 | 2170 | 0.94 | 0.95 | 1.00 |
| | 800 | 380 | 23.0 | 6.7 | 1920 | 0.77 | 0.93 | 1.00 | 21.3 | 6.2 | 2020 | 0.78 | 0.93 | 1.00 | 18.0 | 5.3 | 2090 | 0.90 | 0.94 | 1.00 | 15.7 | 4.6 | 2190 | 0.95 | 0.97 | 1.00 |
| | 900 | 425 | 23.3 | 6.8 | 1940 | 0.85 | 0.99 | 1.00 | 21.6 | 6.3 | 2040 | 0.86 | 1.00 | 1.00 | 18.2 | 5.3 | 2120 | 0.99 | 0.99 | 1.00 | 15.9 | 4.7 | 2210 | 0.99 | 0.99 | 1.00 |
| 67°F (19°C) | 700 | 330 | 24.0 | 7.0 | 1960 | 0.59 | 0.72 | 0.87 | 22.5 | 6.6 | 2080 | 0.60 | 0.74 | 0.89 | 200.7 | 6.1 | 2190 | 0.61 | 0.75 | 0.90 | 18.0 | 5.3 | 2290 | 0.67 | 0.83 | 0.97 |
| | 800 | 380 | 24.5 | 7.2 | 1970 | 0.59 | 0.74 | 0.89 | 23.0 | 6.7 | 2100 | 0.61 | 0.76 | 0.92 | 21.2 | 6.2 | 2210 | 0.62 | 0.77 | 0.93 | 18.4 | 5.4 | 2310 | 0.68 | 0.85 | 1.00 |
| | 900 | 425 | 24.8 | 7.3 | 1990 | 0.65 | 0.80 | 0.93 | 23.3 | 6.8 | 2120 | 0.67 | 0.82 | 0.96 | 21.5 | 6.3 | 2230 | 0.68 | 0.83 | 0.97 | 18.7 | 5.5 | 2330 | 0.75 | 0.92 | 1.00 |
| 71°F (22°C) | 700 | 330 | 25.7 | 7.5 | 2010 | 0.51 | 0.55 | 0.71 | 26.1 | 7.6 | 2160 | 0.53 | 0.57 | 0.64 | 23.4 | 6.9 | 2290 | 0.53 | 0.58 | 0.70 | 20.9 | 6.1 | 2420 | 0.59 | 0.64 | 0.73 |
| | 800 | 380 | 26.2 | 7.7 | 2030 | 0.52 | 0.56 | 0.72 | 26.6 | 7.8 | 2180 | 0.53 | 0.58 | 0.65 | 23.9 | 7.0 | 2310 | 0.54 | 0.59 | 0.71 | 21.4 | 6.3 | 2440 | 0.60 | 0.65 | 0.74 |
| | 900 | 425 | 26.6 | 7.8 | 2050 | 0.57 | 0.61 | 0.75 | 27.0 | 7.9 | 2200 | 0.59 | 0.63 | 0.68 | 24.3 | 7.1 | 2330 | 0.59 | 0.63 | 0.74 | 21.7 | 6.4 | 2460 | 0.65 | 0.70 | 0.77 |

### 10CHP030 COOLING CAPACITY

| Entering Wet Bulb Temperature | Total Air Volume | | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 85°F (29°C) | | | | | | 95°F (35°C) | | | | | | 105°F (41°C) | | | | | | 115°F (46°C) | | | | | |
| | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | |
| | cfm | L/s | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C |
| 63°F (17°C) | 875 | 415 | 28.4 | 8.3 | 2360 | 0.74 | 0.89 | 1.00 | 25.7 | 7.5 | 2430 | 0.75 | 0.88 | 1.00 | 24.2 | 7.0 | 2640 | 0.78 | 0.89 | 1.00 | 19.7 | 5.8 | 2710 | 0.90 | 0.90 | 1.00 |
| | 1000 | 470 | 29.0 | 8.5 | 2380 | 0.75 | 0.91 | 1.00 | 26.2 | 7.7 | 2450 | 0.76 | 0.90 | 1.00 | 24.7 | 7.2 | 2660 | 0.79 | 0.91 | 1.00 | 20.1 | 5.9 | 2730 | 0.91 | 0.92 | 1.00 |
| | 1125 | 530 | 29.4 | 8.6 | 2400 | 0.82 | 0.98 | 1.00 | 26.6 | 7.8 | 2470 | 0.84 | 0.98 | 1.00 | 25.1 | 7.4 | 2690 | 0.87 | 0.98 | 1.00 | 20.4 | 6.0 | 2760 | 0.99 | 0.99 | 1.00 |
| 67°F (19°C) | 875 | 415 | 30.2 | 8.9 | 2420 | 0.57 | 0.70 | 0.84 | 28.4 | 8.3 | 2580 | 0.59 | 0.73 | 0.87 | 25.7 | 7.5 | 2710 | 0.60 | 0.74 | 0.89 | 23.0 | 6.7 | 2840 | 0.63 | 0.78 | 0.93 |
| | 1000 | 470 | 30.9 | 9.1 | 2440 | 0.58 | 0.72 | 0.87 | 29.0 | 8.5 | 2590 | 0.59 | 0.74 | 0.90 | 26.3 | 7.7 | 2730 | 0.61 | 0.76 | 0.92 | 23.4 | 6.9 | 2860 | 0.64 | 0.80 | 0.96 |
| | 1125 | 530 | 31.3 | 9.2 | 2460 | 0.63 | 0.78 | 0.91 | 29.4 | 8.6 | 2610 | 0.65 | 0.80 | 0.93 | 26.7 | 7.8 | 2750 | 0.67 | 0.82 | 0.96 | 23.8 | 7.0 | 2890 | 0.70 | 0.86 | 0.99 |
| 71°F (22°C) | 875 | 415 | 32.4 | 9.5 | 2490 | 0.50 | 0.54 | 0.69 | 29.0 | 8.5 | 2520 | 0.51 | 0.55 | 0.62 | 27.6 | 8.1 | 2780 | 0.53 | 0.57 | 0.73 | 25.4 | 7.4 | 2930 | 0.55 | 0.60 | 0.68 |
| | 1000 | 470 | 33.0 | 9.7 | 2500 | 0.50 | 0.55 | 0.70 | 29.6 | 8.7 | 2530 | 0.52 | 0.56 | 0.63 | 28.1 | 8.2 | 2800 | 0.53 | 0.58 | 0.74 | 25.9 | 7.6 | 2950 | 0.56 | 0.61 | 0.69 |
| | 1125 | 530 | 33.5 | 9.8 | 2530 | 0.55 | 0.59 | 0.73 | 30.0 | 8.8 | 2560 | 0.57 | 0.61 | 0.66 | 28.5 | 8.4 | 2830 | 0.59 | 0.63 | 0.77 | 26.3 | 7.7 | 2980 | 0.62 | 0.66 | 0.72 |

### 10CHP024 - HEATING CAPACITY

| Indoor Coil Air Volume 70°F db (21°C db) | | Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 65°F (18°C) | | | 45°F (7°C) | | | 25°F (-4°C) | | | 5°F (-15°C) | | | -15°F (-26°C) | | |
| | | Total Heating Capacity | | Comp. Motor kW Input | Total Heating Capacity | | Comp. Motor kW Input | Total Heating Capacity | | Comp. Motor kW Input | Total Heating Capacity | | Comp. Motor kW Input | Total Heating Capacity | | Comp. Motor kW Input |
| cfm | L/s | kBtuh | kW | | kBtuh | kW | | kBtuh | kW | | kBtuh | kW | | kBtuh | kW | |
| 700 | 330 | 28.2 | 8.3 | 1910 | 21.9 | 6.4 | 1540 | 15.4 | 4.5 | 1290 | 10.1 | 2.9 | 910 | 1.6 | 5.6 | 690 |
| 800 | 380 | 28.5 | 8.4 | 1825 | 22.1 | 6.5 | 1550 | 15.6 | 4.6 | 1300 | 10.3 | 3.0 | 920 | 1.7 | 5.7 | 695 |
| 900 | 425 | 28.8 | 8.4 | 1840 | 22.3 | 6.6 | 1565 | 15.8 | 4.6 | 1310 | 10.4 | 3.0 | 925 | 1.7 | 5.7 | 700 |

### 10CHP030 - HEATING CAPACITY

| Indoor Coil Air Volume 70°F db (21°C db) | | Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 65°F (18°C) | | | 45°F (7°C) | | | 25°F (-4°C) | | | 5°F (-15°C) | | | -15°F (-26°C) | | |
| | | Total Heating Capacity | | Comp. Motor kW Input | Total Heating Capacity | | Comp. Motor kW Input | Total Heating Capacity | | Comp. Motor kW Input | Total Heating Capacity | | Comp. Motor kW Input | Total Heating Capacity | | Comp. Motor kW Input |
| cfm | L/s | kBtuh | kW | | kBtuh | kW | | kBtuh | kW | | kBtuh | kW | | kBtuh | kW | |
| 875 | 415 | 35.7 | 10.4 | 2320 | 27.7 | 8.1 | 1980 | 19.5 | 5.7 | 1665 | 12.8 | 3.8 | 1185 | 7.1 | 2.1 | 910 |
| 1000 | 470 | 36.1 | 10.6 | 2335 | 28.0 | 8.2 | 1995 | 19.8 | 5.8 | 1675 | 13.0 | 3.8 | 1195 | 7.2 | 2.1 | 915 |
| 1125 | 530 | 36.4 | 10.7 | 2360 | 28.3 | 8.3 | 2015 | 19.9 | 5.8 | 1690 | 13.1 | 3.9 | 1205 | 7.2 | 2.1 | 925 |

### 10CHP024 - HEATING PERFORMANCE at 800 cfm (380 L/s) Indoor Coil Air Volume

| *Outdoor Temperature | | Compressor Motor kW Input | Total Output | |
|---|---|---|---|---|
| °F | °C | | kBtuh | kW |
| 65 | 18 | 1.83 | 28.5 | 8.4 |
| 60 | 16 | 1.76 | 26.9 | 7.9 |
| 55 | 13 | 1.69 | 25.3 | 7.5 |
| 50 | 10 | 1.62 | 23.7 | 7.0 |
| 47 | 8 | 1.58 | 22.7 | 6.7 |
| 45 | 7 | 1.55 | 22.1 | 6.5 |
| 40 | 4 | 1.49 | 20.5 | 6.0 |
| 35 | 2 | 1.43 | 18.9 | 5.6 |
| 30 | -1 | 1.36 | 17.2 | 5.1 |
| 25 | -4 | 1.30 | 15.6 | 4.6 |
| 20 | -7 | 1.21 | 14.3 | 4.2 |
| 17 | -8 | 1.15 | 13.5 | 4.0 |
| 15 | -9 | 1.11 | 13.0 | 3.8 |
| 10 | -12 | 1.02 | 11.6 | 3.4 |
| 5 | -15 | 0.92 | 10.3 | 3.0 |
| 0 | -18 | 0.86 | 8.2 | 3.7 |
| -5 | -21 | 0.81 | 6.0 | 4.4 |
| -10 | -23 | 0.75 | 3.9 | 5.0 |
| -15 | -26 | 0.70 | 1.7 | 5.7 |
| -20 | -29 | 0.64 | 0.5 | 6.4 |

### 10CHP030 - HEATING PERFORMANCE at 1000 cfm (470 L/s) Indoor Coil Air Volume

| *Outdoor Temperature | | Compressor Motor kW Input | Total Output | |
|---|---|---|---|---|
| °F | °C | | kBtuh | kW |
| 65 | 18 | 2.34 | 36.1 | 10.6 |
| 60 | 16 | 2.25 | 34.1 | 10.0 |
| 55 | 13 | 2.17 | 32.1 | 9.4 |
| 50 | 10 | 2.08 | 30.0 | 8.8 |
| 47 | 8 | 2.03 | 28.8 | 8.4 |
| 45 | 7 | 2.00 | 28.0 | 8.2 |
| 40 | 4 | 1.92 | 26.0 | 7.6 |
| 35 | 2 | 1.84 | 23.9 | 7.0 |
| 30 | -1 | 1.76 | 21.9 | 6.4 |
| 25 | -4 | 1.68 | 19.8 | 5.8 |
| 20 | -7 | 1.56 | 18.1 | 5.3 |
| 17 | -8 | 1.48 | 17.1 | 5.0 |
| 15 | -9 | 1.44 | 16.4 | 4.8 |
| 10 | -12 | 1.32 | 14.7 | 4.3 |
| 5 | -15 | 1.20 | 13.0 | 3.8 |
| 0 | -18 | 1.13 | 11.6 | 3.4 |
| -5 | -21 | 1.06 | 10.1 | 3.0 |
| -10 | -23 | 0.99 | 8.7 | 2.5 |
| -15 | -26 | 0.92 | 7.2 | 2.1 |
| -20 | -29 | 0.85 | 5.8 | 1.7 |

## RATINGS

NOTE - For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

### 10CHP036 COOLING CAPACITY

| Entering Wet Bulb Temperature | Total Air Volume | | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 85°F (29°C) | | | | | | 95°F (35°C) | | | | | | 105°F (41°C) | | | | | | 115°F (46°C) | | | | | |
| | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | |
| | cfm | L/s | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C |
| 63°F (17°C) | 1050 | 495 | 33.3 | 9.8 | 2900 | 0.75 | 0.90 | 1.00 | 31.1 | 9.1 | 3040 | 0.75 | 0.90 | 1.00 | 28.7 | 8.4 | 3290 | 0.78 | 0.89 | 1.00 | 23.2 | 6.8 | 3380 | 0.88 | 0.93 | 1.00 |
| | 1200 | 565 | 34.0 | 10.0 | 2920 | 0.76 | 0.92 | 1.00 | 31.7 | 9.3 | 3060 | 0.76 | 0.92 | 1.00 | 29.3 | 8.5 | 3320 | 0.79 | 0.91 | 1.00 | 23.7 | 6.9 | 3410 | 0.90 | 0.93 | 1.00 |
| | 1350 | 635 | 34.5 | 10.1 | 2950 | 0.83 | 0.99 | 1.00 | 32.2 | 9.4 | 3090 | 0.84 | 0.99 | 1.00 | 29.7 | 8.7 | 3350 | 0.87 | 0.98 | 1.00 | 24.0 | 7.0 | 3440 | 0.99 | 1.00 | 1.00 |
| 67°F (19°C) | 1050 | 495 | 35.5 | 10.4 | 2980 | 0.58 | 0.71 | 0.86 | 33.3 | 9.8 | 3160 | 0.59 | 0.74 | 0.88 | 30.5 | 8.9 | 3380 | 0.60 | 0.74 | 0.89 | 27.5 | 8.1 | 3550 | 0.62 | 0.76 | 0.91 |
| | 1200 | 565 | 36.2 | 10.6 | 3000 | 0.58 | 0.73 | 0.88 | 34.0 | 10.0 | 3190 | 0.60 | 0.75 | 0.91 | 31.1 | 9.1 | 3400 | 0.61 | 0.76 | 0.92 | 28.0 | 8.2 | 3580 | 0.62 | 0.78 | 0.94 |
| | 1350 | 635 | 36.7 | 10.8 | 3030 | 0.64 | 0.79 | 0.92 | 34.5 | 10.1 | 3220 | 0.66 | 0.81 | 0.94 | 31.6 | 9.3 | 3430 | 0.67 | 0.82 | 0.96 | 28.5 | 8.4 | 3620 | 0.69 | 0.84 | 0.96 |
| 71°F (22°C) | 1050 | 495 | 37.9 | 11.1 | 3060 | 0.51 | 0.55 | 0.70 | 35.3 | 10.3 | 3180 | 0.52 | 0.56 | 0.62 | 32.7 | 9.6 | 3470 | 0.53 | 0.57 | 0.73 | 31.3 | 9.2 | 3690 | 0.54 | 0.58 | 0.70 |
| | 1200 | 565 | 38.7 | 11.3 | 3080 | 0.51 | 0.56 | 0.71 | 36.0 | 10.6 | 3200 | 0.53 | 0.57 | 0.63 | 33.3 | 9.8 | 3500 | 0.53 | 0.58 | 0.74 | 31.9 | 9.3 | 3720 | 0.55 | 0.60 | 0.71 |
| | 1350 | 635 | 39.3 | 11.5 | 3110 | 0.56 | 0.60 | 0.74 | 36.6 | 10.7 | 3230 | 0.58 | 0.62 | 0.66 | 33.8 | 9.9 | 3530 | 0.59 | 0.63 | 0.77 | 32.4 | 9.5 | 3760 | 0.60 | 0.64 | 0.74 |

### 10CHP042 COOLING CAPACITY

| Entering Wet Bulb Temperature | Total Air Volume | | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 85°F (29°C) | | | | | | 95°F (35°C) | | | | | | 105°F (41°C) | | | | | | 115°F (46°C) | | | | | |
| | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | |
| | cfm | L/s | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C |
| 63°F (17°C) | 1250 | 590 | 39.2 | 11.5 | 3290 | 0.75 | 0.90 | 1.00 | 38.3 | 11.2 | 3360 | 0.77 | 0.90 | 1.00 | 35.4 | 10.4 | 3670 | 0.78 | 0.89 | 1.00 | 29.9 | 8.8 | 3750 | 0.86 | 0.95 | 1.00 |
| | 1400 | 660 | 40.0 | 11.7 | 3310 | 0.76 | 0.92 | 1.00 | 39.1 | 11.5 | 3390 | 0.78 | 0.92 | 1.00 | 36.1 | 10.6 | 3700 | 0.79 | 0.91 | 1.00 | 30.5 | 8.9 | 3770 | 0.87 | 0.97 | 1.00 |
| | 1550 | 730 | 40.6 | 11.9 | 3350 | 0.83 | 0.99 | 1.00 | 39.7 | 11.6 | 3420 | 0.86 | 0.99 | 1.00 | 36.6 | 10.7 | 3740 | 0.87 | 0.98 | 1.00 | 31.0 | 9.1 | 3810 | 0.96 | 0.99 | 1.00 |
| 67°F (19°C) | 1250 | 590 | 41.7 | 12.2 | 3370 | 0.58 | 0.71 | 0.86 | 39.2 | 11.5 | 3590 | 0.59 | 0.74 | 0.88 | 37.6 | 11.0 | 3760 | 0.60 | 0.74 | 0.89 | 33.1 | 9.7 | 3970 | 0.67 | 0.82 | 0.97 |
| | 1400 | 660 | 42.6 | 12.5 | 3400 | 0.58 | 0.73 | 0.88 | 40.0 | 11.7 | 3610 | 0.60 | 0.75 | 0.91 | 38.4 | 11.3 | 3790 | 0.61 | 0.76 | 0.92 | 33.8 | 9.9 | 4000 | 0.67 | 0.84 | 1.00 |
| | 1550 | 730 | 43.2 | 12.7 | 3430 | 0.64 | 0.79 | 0.92 | 40.6 | 11.9 | 3650 | 0.66 | 0.81 | 0.94 | 39.0 | 11.4 | 3830 | 0.67 | 0.82 | 0.96 | 34.3 | 10.1 | 4040 | 0.74 | 0.91 | 1.00 |
| 71°F (22°C) | 1250 | 590 | 44.6 | 13.1 | 3470 | 0.51 | 0.55 | 0.70 | 44.2 | 13.0 | 3720 | 0.52 | 0.56 | 0.65 | 40.3 | 11.8 | 3870 | 0.53 | 0.57 | 0.73 | 36.0 | 10.6 | 4190 | 0.58 | 0.63 | 0.73 |
| | 1400 | 660 | 45.5 | 13.3 | 3490 | 0.51 | 0.56 | 0.71 | 45.1 | 13.2 | 3750 | 0.53 | 0.57 | 0.66 | 41.1 | 12.0 | 3900 | 0.53 | 0.58 | 0.74 | 36.8 | 10.8 | 4220 | 0.59 | 0.64 | 0.74 |
| | 1550 | 730 | 46.2 | 13.5 | 3530 | 0.56 | 0.60 | 0.74 | 45.7 | 13.4 | 3790 | 0.58 | 0.62 | 0.69 | 41.7 | 12.2 | 3940 | 0.59 | 0.63 | 0.77 | 37.3 | 10.9 | 4270 | 0.65 | 0.69 | 0.77 |

### 10CHP036 - HEATING CAPACITY

| Indoor Coil Air Volume 70°F db (21°C db) | | Air Temperature Entering Outdoor Coil | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 65°F (18°C) | | | 45°F (7°C) | | | 25°F (-4°C) | | | 5°F (-15°C) | | | -15°F (-26°C) | | |
| | | Total Heating Capacity | | Comp. Motor kW Input | Total Heating Capacity | | Comp. Motor kW Input | Total Heating Capacity | | Comp. Motor kW Input | Total Heating Capacity | | Comp. Motor kW Input | Total Heating Capacity | | Comp. Motor kW Input |
| cfm | L/s | kBtuh | kW | | kBtuh | kW | | kBtuh | kW | | kBtuh | kW | | kBtuh | kW | |
| 1050 | 495 | 42.4 | 12.4 | 2680 | 32.9 | 9.6 | 2280 | 23.2 | 6.8 | 1910 | 15.3 | 4.5 | 1350 | 8.4 | 2.5 | 1020 |
| 1200 | 565 | 43.0 | 12.6 | 2700 | 33.3 | 9.8 | 2295 | 23.5 | 6.9 | 1925 | 15.5 | 4.5 | 1360 | 8.5 | 2.5 | 1030 |
| 1350 | 635 | 43.3 | 12.7 | 2725 | 33.6 | 9.9 | 2320 | 23.7 | 7.0 | 1940 | 15.6 | 4.6 | 1370 | 8.6 | 2.5 | 1040 |

### 10CHP042 - HEATING CAPACITY

| Indoor Coil Air Volume 70°F db (21°C db) | | Air Temperature Entering Outdoor Coil | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 65°F (18°C) | | | 45°F (7°C) | | | 25°F (-4°C) | | | 5°F (-15°C) | | | -15°F (-26°C) | | |
| | | Total Heating Capacity | | Comp. Motor kW Input | Total Heating Capacity | | Comp. Motor kW Input | Total Heating Capacity | | Comp. Motor kW Input | Total Heating Capacity | | Comp. Motor kW Input | Total Heating Capacity | | Comp. Motor kW Input |
| cfm | L/s | kBtuh | kW | | kBtuh | kW | | kBtuh | kW | | kBtuh | kW | | kBtuh | kW | |
| 1250 | 590 | 49.9 | 14.6 | 3165 | 38.7 | 11.4 | 2705 | 27.3 | 8.0 | 2280 | 18.0 | 5.3 | 1630 | 9.9 | 2.9 | 1255 |
| 1400 | 660 | 50.5 | 14.8 | 3190 | 39.2 | 11.5 | 2725 | 27.6 | 8.1 | 2295 | 18.2 | 5.3 | 1640 | 10.0 | 2.9 | 1265 |
| 1550 | 730 | 51.0 | 14.9 | 3220 | 39.5 | 11.6 | 2750 | 27.9 | 8.2 | 2315 | 18.4 | 5.4 | 1660 | 10.1 | 3.0 | 1275 |

### 10CHP036 - HEATING PERFORMANCE at 1200 cfm (565 L/s) Indoor Coil Air Volume

| *Outdoor Temperature | | Compressor Motor kW Input | Total Output | |
|---|---|---|---|---|
| °F | °C | | kBtuh | kW |
| 65 | 18 | 2.70 | 43.0 | 12.6 |
| 60 | 16 | 2.60 | 40.6 | 11.9 |
| 55 | 13 | 2.50 | 38.2 | 11.2 |
| 50 | 10 | 2.40 | 35.7 | 10.5 |
| 47 | 8 | 2.34 | 34.3 | 10.1 |
| 45 | 7 | 2.30 | 33.3 | 9.8 |
| 40 | 4 | 2.20 | 30.9 | 9.1 |
| 35 | 2 | 2.11 | 28.4 | 8.4 |
| 30 | -1 | 2.02 | 26.0 | 7.6 |
| 25 | -4 | 1.93 | 23.5 | 6.9 |
| 20 | -7 | 1.78 | 21.5 | 6.3 |
| 17 | -8 | 1.70 | 20.3 | 5.9 |
| 15 | -9 | 1.64 | 19.5 | 5.7 |
| 10 | -12 | 1.50 | 17.5 | 5.1 |
| 5 | -15 | 1.36 | 15.5 | 4.5 |
| 0 | -18 | 1.28 | 13.8 | 4.0 |
| -5 | -21 | 1.20 | 12.0 | 3.5 |
| -10 | -23 | 1.11 | 10.3 | 3.0 |
| -15 | -26 | 1.03 | 8.5 | 2.5 |
| -20 | -29 | 0.95 | 6.8 | 2.0 |

### 10CHP042 - HEATING PERFORMANCE at 1400 cfm (660 L/s) Indoor Coil Air Volume

| *Outdoor Temperature | | Compressor Motor kW Input | Total Output | |
|---|---|---|---|---|
| °F | °C | | kBtuh | kW |
| 65 | 18 | 3.19 | 50.5 | 14.8 |
| 60 | 16 | 3.07 | 47.7 | 14.0 |
| 55 | 13 | 2.96 | 44.9 | 13.2 |
| 50 | 10 | 2.84 | 42.0 | 12.3 |
| 47 | 8 | 2.77 | 40.3 | 11.8 |
| 45 | 7 | 2.73 | 39.2 | 11.5 |
| 40 | 4 | 2.62 | 36.3 | 10.7 |
| 35 | 2 | 2.51 | 33.4 | 9.8 |
| 30 | -1 | 2.40 | 30.5 | 9.0 |
| 25 | -4 | 2.30 | 27.6 | 8.1 |
| 20 | -7 | 2.13 | 25.3 | 7.4 |
| 17 | -8 | 2.03 | 23.8 | 7.0 |
| 15 | -9 | 1.97 | 22.9 | 6.7 |
| 10 | -12 | 1.80 | 20.6 | 6.0 |
| 5 | -15 | 1.64 | 18.2 | 5.3 |
| 0 | -18 | 1.55 | 16.2 | 4.7 |
| -5 | -21 | 1.45 | 14.1 | 4.1 |
| -10 | -23 | 1.36 | 12.1 | 3.5 |
| -15 | -26 | 1.27 | 10.0 | 2.9 |
| -20 | -29 | 1.17 | 8.0 | 2.3 |

## RATINGS

NOTE - For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

### 10CHP048 COOLING CAPACITY

| Entering Wet Bulb Temperature | Total Air Volume | | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 85°F (29°C) | | | | | | 95°F (35°C) | | | | | | 105°F (41°C) | | | | | | 115°F (46°C) | | | | | |
| | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | |
| | cfm | L/s | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C |
| 63°F (17°C) | 1400 | 660 | 47.0 | 13.8 | 4190 | 0.73 | 0.88 | 1.00 | 43.7 | 12.8 | 4440 | 0.76 | 0.87 | 1.00 | 38.2 | 11.2 | 4870 | 0.86 | 0.89 | 1.00 | 34.4 | 10.1 | 5350 | 0.90 | 0.90 | 1.00 |
| | 1600 | 755 | 48.0 | 14.1 | 4220 | 0.74 | 0.89 | 1.00 | 44.6 | 13.1 | 4470 | 0.77 | 0.89 | 1.00 | 39.0 | 11.4 | 4900 | 0.87 | 0.91 | 1.00 | 35.1 | 10.3 | 5390 | 0.91 | 0.92 | 1.00 |
| | 1800 | 850 | 48.7 | 14.3 | 4260 | 0.81 | 0.97 | 1.00 | 45.3 | 13.3 | 4510 | 0.85 | 0.96 | 1.00 | 39.6 | 11.6 | 4950 | 0.96 | 0.98 | 1.00 | 35.6 | 10.4 | 5440 | 0.98 | 0.99 | 1.00 |
| 67°F (19°C) | 1400 | 660 | 50.1 | 14.7 | 4290 | 0.56 | 0.70 | 0.83 | 47.0 | 13.8 | 4560 | 0.58 | 0.72 | 0.86 | 43.9 | 12.9 | 5040 | 0.60 | 0.74 | 0.89 | 39.8 | 11.7 | 5560 | 0.63 | 0.78 | 0.93 |
| | 1600 | 755 | 51.1 | 15.0 | 4320 | 0.57 | 0.71 | 0.86 | 48.0 | 14.1 | 4590 | 0.58 | 0.73 | 0.88 | 44.8 | 13.1 | 5070 | 0.61 | 0.76 | 0.92 | 40.6 | 11.9 | 5600 | 0.64 | 0.80 | 0.96 |
| | 1800 | 850 | 51.8 | 15.2 | 4360 | 0.62 | 0.77 | 0.89 | 48.7 | 14.3 | 4640 | 0.64 | 0.79 | 0.92 | 45.5 | 13.3 | 5120 | 0.67 | 0.82 | 0.96 | 41.2 | 12.1 | 5650 | 0.70 | 0.86 | 0.99 |
| 71°F (22°C) | 1400 | 660 | 53.6 | 15.7 | 4410 | 0.49 | 0.53 | 0.68 | 53.5 | 15.7 | 4690 | 0.51 | 0.55 | 0.64 | 49.8 | 14.6 | 5190 | 0.53 | 0.57 | 0.66 | 46.0 | 13.5 | 5760 | 0.55 | 0.60 | 0.69 |
| | 1600 | 755 | 54.6 | 16.0 | 4440 | 0.50 | 0.54 | 0.69 | 54.6 | 16.0 | 4720 | 0.51 | 0.56 | 0.65 | 50.8 | 14.9 | 5230 | 0.53 | 0.58 | 0.67 | 46.9 | 13.7 | 5800 | 0.56 | 0.61 | 0.70 |
| | 1800 | 850 | 55.5 | 16.3 | 4490 | 0.55 | 0.58 | 0.72 | 55.4 | 16.2 | 4770 | 0.56 | 0.60 | 0.68 | 51.6 | 15.1 | 5280 | 0.59 | 0.63 | 0.70 | 47.6 | 14.0 | 5860 | 0.62 | 0.66 | 0.73 |

### 10CHP060 COOLING CAPACITY

| Entering Wet Bulb Temperature | Total Air Volume | | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 85°F (29°C) | | | | | | 95°F (35°C) | | | | | | 105°F (41°C) | | | | | | 115°F (46°C) | | | | | |
| | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | |
| | cfm | L/s | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C |
| 63°F (17°C) | 1750 | 825 | 57.8 | 16.9 | 4660 | 0.73 | 0.88 | 1.00 | 49.2 | 14.4 | 4950 | 0.77 | 0.87 | 1.00 | 43.8 | 12.8 | 5380 | 0.85 | 0.91 | 1.00 | 38.8 | 11.4 | 5870 | 0.89 | 0.90 | 1.00 |
| | 2000 | 945 | 59.0 | 17.3 | 4700 | 0.74 | 0.89 | 1.00 | 50.2 | 14.7 | 4980 | 0.78 | 0.89 | 1.00 | 44.7 | 13.1 | 5420 | 0.86 | 0.92 | 1.00 | 39.5 | 11.6 | 5910 | 0.90 | 0.92 | 1.00 |
| | 2250 | 1060 | 59.9 | 17.6 | 4740 | 0.81 | 0.97 | 1.00 | 50.9 | 14.9 | 5030 | 0.86 | 0.96 | 1.00 | 45.4 | 13.3 | 5470 | 0.95 | 0.97 | 1.00 | 40.1 | 11.8 | 5970 | 0.98 | 0.99 | 1.00 |
| 67°F (19°C) | 1750 | 825 | 61.5 | 18.0 | 4780 | 0.56 | 0.70 | 0.83 | 57.8 | 16.9 | 5080 | 0.58 | 0.72 | 0.86 | 50.0 | 14.7 | 5590 | 0.61 | 0.75 | 0.90 | 45.5 | 13.3 | 6140 | 0.63 | 0.77 | 0.92 |
| | 2000 | 945 | 62.8 | 18.4 | 4810 | 0.57 | 0.71 | 0.86 | 59.0 | 17.3 | 5110 | 0.58 | 0.73 | 0.88 | 51.0 | 15.0 | 5630 | 0.62 | 0.77 | 0.93 | 46.5 | 13.6 | 6180 | 0.63 | 0.79 | 0.95 |
| | 2250 | 1060 | 63.7 | 18.7 | 4860 | 0.62 | 0.77 | 0.89 | 59.9 | 17.6 | 5170 | 0.64 | 0.79 | 0.92 | 51.8 | 15.2 | 5680 | 0.68 | 0.83 | 0.97 | 47.2 | 13.8 | 6240 | 0.70 | 0.85 | 0.97 |
| 71°F (22°C) | 1750 | 825 | 65.8 | 19.3 | 4910 | 0.49 | 0.53 | 0.68 | 61.9 | 18.1 | 5220 | 0.51 | 0.55 | 0.70 | 56.4 | 16.5 | 5730 | 0.53 | 0.58 | 0.66 | 53.1 | 15.6 | 6340 | 0.55 | 0.59 | 0.68 |
| | 2000 | 945 | 67.2 | 19.7 | 4950 | 0.50 | 0.54 | 0.69 | 63.1 | 18.5 | 5260 | 0.51 | 0.56 | 0.71 | 57.5 | 16.9 | 5770 | 0.54 | 0.59 | 0.67 | 54.2 | 15.9 | 6380 | 0.55 | 0.60 | 0.69 |
| | 2250 | 1060 | 68.2 | 20.0 | 5000 | 0.55 | 0.58 | 0.72 | 64.1 | 18.8 | 5310 | 0.56 | 0.60 | 0.74 | 58.4 | 17.1 | 5830 | 0.59 | 0.63 | 0.70 | 55.0 | 16.1 | 6440 | 0.61 | 0.65 | 0.72 |

### 10CHP048 - HEATING CAPACITY

| Indoor Coil Air Volume 70°F db (21°C db) | | Air Temperature Entering Outdoor Coil | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 65°F (18°C) | | | 45°F (7°C) | | | 25°F (-4°C) | | | 5°F (-15°C) | | | -15°F (-26°C) | | |
| | | Total Heating Capacity | | Comp. Motor kW Input | Total Heating Capacity | | Comp. Motor kW Input | Total Heating Capacity | | Comp. Motor kW Input | Total Heating Capacity | | Comp. Motor kW Input | Total Heating Capacity | | Comp. Motor kW Input |
| cfm | L/s | kBtuh | kW | | kBtuh | kW | | kBtuh | kW | | kBtuh | kW | | kBtuh | kW | |
| 1400 | 660 | 57.4 | 16.8 | 3710 | 44.5 | 13.1 | 3160 | 31.4 | 9.2 | 2655 | 20.7 | 6.1 | 1885 | 11.4 | 3.3 | 1435 |
| 1600 | 755 | 58.1 | 17.0 | 3735 | 45.1 | 13.2 | 3185 | 31.8 | 9.3 | 2675 | 20.9 | 6.1 | 1900 | 11.5 | 3.4 | 1445 |
| 1800 | 850 | 58.6 | 17.2 | 3770 | 45.5 | 13.3 | 3215 | 32.1 | 9.4 | 2695 | 21.1 | 6.2 | 1915 | 11.6 | 3.4 | 1460 |

### 10CHP060 - HEATING CAPACITY

| Indoor Coil Air Volume 70°F db (21°C db) | | Air Temperature Entering Outdoor Coil | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 65°F (18°C) | | | 45°F (7°C) | | | 25°F (-4°C) | | | 5°F (-15°C) | | | -15°F (-26°C) | | |
| | | Total Heating Capacity | | Comp. Motor kW Input | Total Heating Capacity | | Comp. Motor kW Input | Total Heating Capacity | | Comp. Motor kW Input | Total Heating Capacity | | Comp. Motor kW Input | Total Heating Capacity | | Comp. Motor kW Input |
| cfm | L/s | kBtuh | kW | | kBtuh | kW | | kBtuh | kW | | kBtuh | kW | | kBtuh | kW | |
| 1750 | 825 | 71.1 | 20.8 | 4655 | 55.2 | 16.2 | 3975 | 38.9 | 11.4 | 3345 | 25.6 | 7.5 | 2390 | 14.1 | 4.1 | 1835 |
| 2000 | 945 | 72.0 | 21.1 | 4685 | 55.8 | 16.4 | 4005 | 39.4 | 11.5 | 3370 | 25.9 | 7.6 | 2410 | 14.3 | 4.2 | 1850 |
| 225 | 1060 | 72.6 | 21.3 | 4730 | 56.3 | 16.5 | 4040 | 39.7 | 11.7 | 3400 | 26.2 | 7.7 | 2430 | 14.4 | 4.2 | 1865 |

### 10CHP048 - HEATING PERFORMANCE at 1600 cfm (755 L/s) Indoor Coil Air Volume

| *Outdoor Temperature | | Compressor Motor kW Input | Total Output | |
|---|---|---|---|---|
| °F | °C | | kBtuh | kW |
| 65 | 18 | 3.74 | 58.1 | 17.0 |
| 60 | 16 | 3.60 | 54.9 | 16.1 |
| 55 | 13 | 3.46 | 51.6 | 15.1 |
| 50 | 10 | 3.32 | 48.4 | 14.2 |
| 47 | 8 | 3.24 | 46.4 | 13.6 |
| 45 | 7 | 3.19 | 45.1 | 13.2 |
| 40 | 4 | 3.06 | 41.8 | 12.2 |
| 35 | 2 | 2.93 | 38.5 | 11.3 |
| 30 | -1 | 2.80 | 35.1 | 10.3 |
| 25 | -4 | 2.68 | 31.8 | 9.3 |
| 20 | -7 | 2.48 | 29.1 | 8.5 |
| 17 | -8 | 2.37 | 27.4 | 8.0 |
| 15 | -9 | 2.29 | 26.4 | 7.7 |
| 10 | -12 | 2.09 | 23.6 | 6.9 |
| 5 | -15 | 1.90 | 20.9 | 6.1 |
| 0 | -18 | 1.79 | 18.6 | 5.4 |
| -5 | -21 | 1.67 | 16.2 | 4.8 |
| -10 | -23 | 1.56 | 13.9 | 4.1 |
| -15 | -26 | 1.45 | 11.5 | 3.4 |
| -20 | -29 | 1.33 | 9.2 | 2.7 |

### 10CHP060 - HEATING PERFORMANCE at 2000 cfm (945 L/s) Indoor Coil Air Volume

| *Outdoor Temperature | | Compressor Motor kW Input | Total Output | |
|---|---|---|---|---|
| °F | °C | | kBtuh | kW |
| 65 | 18 | 4.69 | 72.0 | 21.1 |
| 60 | 16 | 4.52 | 68.0 | 19.9 |
| 55 | 13 | 4.35 | 63.9 | 18.8 |
| 50 | 10 | 4.18 | 59.9 | 17.6 |
| 47 | 8 | 4.07 | 57.4 | 16.9 |
| 45 | 7 | 4.01 | 55.8 | 16.4 |
| 40 | 4 | 3.85 | 51.7 | 15.2 |
| 35 | 2 | 3.69 | 47.6 | 14.0 |
| 30 | -1 | 3.53 | 43.5 | 12.7 |
| 25 | -4 | 3.37 | 39.4 | 11.5 |
| 20 | -7 | 3.13 | 36.0 | 10.5 |
| 17 | -8 | 2.99 | 34.0 | 9.9 |
| 15 | -9 | 2.89 | 32.7 | 9.6 |
| 10 | -12 | 2.65 | 29.3 | 8.6 |
| 5 | -15 | 2.41 | 25.9 | 7.6 |
| 0 | -18 | 2.27 | 23.0 | 6.8 |
| -5 | -21 | 2.13 | 20.1 | 5.9 |
| -10 | -23 | 1.99 | 17.2 | 5.1 |
| -15 | -26 | 1.85 | 14.3 | 4.2 |
| -20 | -29 | 1.71 | 11.4 | 3.4 |

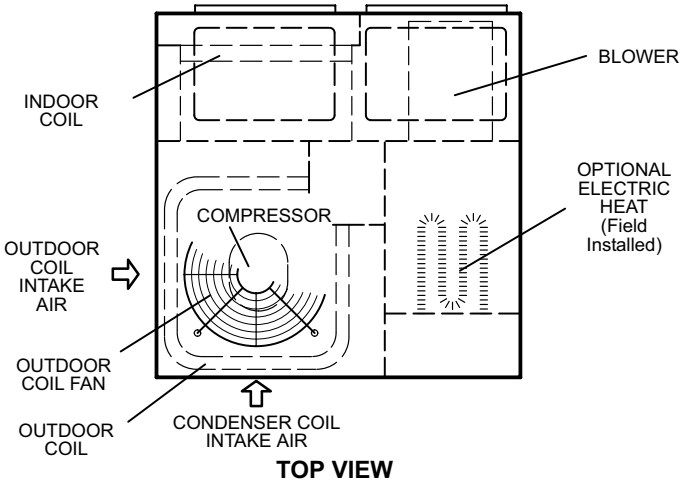
## DIMENSIONS - INCHES (MM)

### CORNER WEIGHTS

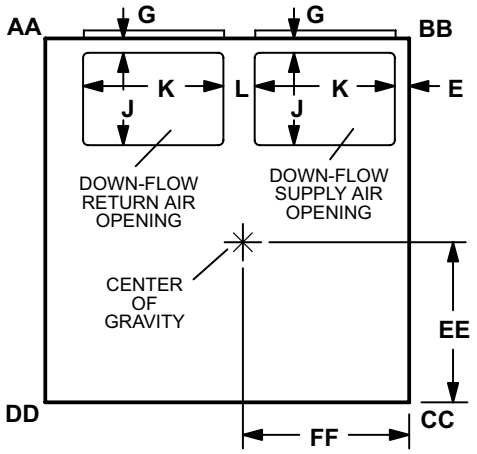
| Model Number | AA | | BB | | CC | | DD | |
|---|---|---|---|---|---|---|---|---|
| | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | kg |
| 10CHP024 | 78 | 35 | 57 | 26 | 62 | 28 | 83 | 38 |
| 10CHP030 | 82 | 37 | 61 | 28 | 67 | 30 | 90 | 41 |
| 10CHP036 | 88 | 40 | 65 | 29 | 71 | 32 | 94 | 43 |
| 10CHP042 | 96 | 44 | 71 | 32 | 78 | 35 | 103 | 47 |
| 10CHP048 | 122 | 55 | 89 | 40 | 97 | 44 | 130 | 59 |
| 10CHP060 | 127 | 58 | 94 | 43 | 101 | 46 | 136 | 62 |

### CENTER OF GRAVITY

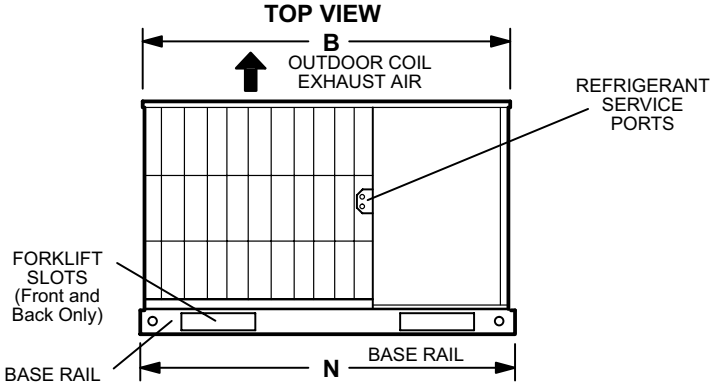
| Model Number | EE | | FF | |
|---|---|---|---|---|
| | inch | mm | inch | mm |
| 10CHP024 | 21-7/8 | 556 | 26-1/2 | 673 |
| 10CHP030 | 21-7/8 | 556 | 26-1/2 | 673 |
| 10CHP036 | 21-7/8 | 556 | 26-1/2 | 673 |
| 10CHP042 | 21-7/8 | 556 | 26-1/2 | 673 |
| 10CHP048 | 23-3/4 | 603 | 31-1/4 | 794 |
| 10CHP060 | 23-3/4 | 603 | 31-1/4 | 794 |



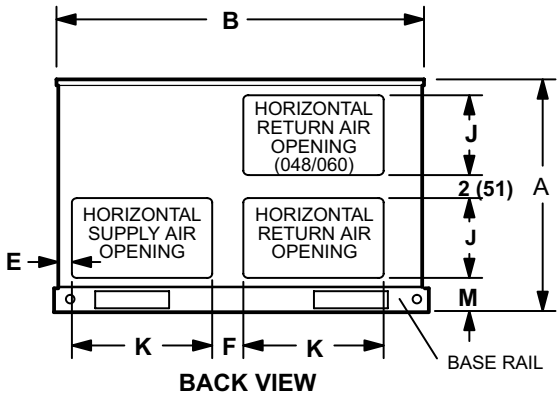

TOP VIEW



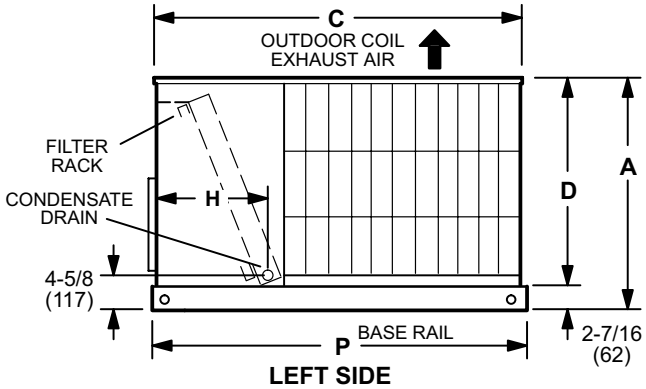

TOP VIEW BASE SECTION



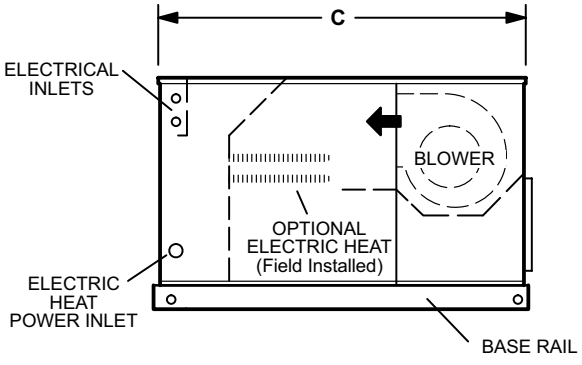

FRONT VIEW




BACK VIEW




LEFT SIDE




RIGHT SIDE

| Model Number | A | | B | | C | | D | | E | | F | | G | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm |
| 10CHP024, 030, 036 | 27-11/16 | 703 | 45-5/8 | 1159 | 45-5/8 | 1159 | 25-1/4 | 641 | 1-13/16 | 46 | 4 | 102 | 1-7/8 | 48 |
| 10CHP042 | 31-11/16 | 805 | 45-5/8 | 1159 | 45-5/8 | 1159 | 29-1/4 | 743 | 1-13/16 | 46 | 4 | 102 | 1-7/8 | 48 |
| 10CHP048, 060 | 33-11/16 | 856 | 54-11/16 | 1389 | 49-5/8 | 1260 | 31-7/16 | 799 | 1-1/8 | 29 | 6-1/4 | 159 | 2-1/4 | 57 |

| Model Number | H | | J | | K | | L | | M | | N | | P | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm |
| 10CHP024, 030, 036 | 15-5/8 | 397 | 11-1/2 | 292 | 17-1/2 | 445 | 4 | 102 | 5 | 127 | 46-3/8 | 1179 | 46-3/8 | 1179 |
| 10CHP042 | 15-5/8 | 397 | 11-1/2 | 292 | 17-1/2 | 445 | 4 | 102 | 5 | 127 | 46-3/8 | 1179 | 46-3/8 | 1179 |
| 10CHP048, 060 | 17-1/8 | 435 | 12 | 305 | 21-1/2 | 546 | 5-5/8 | 143 | 4-1/8 | 105 | 55-1/4 | 1403 | 50-1/2 | 1283 |