



Installation Instructions

IMPORTANT: This installation instruction contains basic unit installation information including installation of field control devices. For information on unit start-up, service, and operation, refer to the unit Controls, Start-Up, Operation, Service, and Troubleshooting Instructions also enclosed in the unit literature packet.

TABLE OF CONTENTS


| | |
|--|----|
| SAFETY CONSIDERATIONS | 1 |
| INSTALLATION | 1 |
| Step 1 - Provide Unit Support | 1 |
| Step 2 - Remove Shipping Rails | 3 |
| Step 3 - Rig and Place Unit | 3 |
| Step 4 - Field Fabricate Ductwork | 9 |
| Step 5 - Make Unit Connections | 9 |
| Step 6 - Trap Condensate Drain | 10 |
| Step 7 - Make Electrical Connections | 10 |
| Step 8 - Install Outdoor-Air Hood | 13 |
| Step 9 - Position Optional Power Exhaust or Barometric Relief Damper Hood | 13 |
| Step 10 - Non-Fused Disconnect | 15 |
| Step 11 - Install All Accessories | 15 |
| Step 12 - Configure Controls | 15 |
| APPENDIX A - ELECTRICAL DATA | 16 |

SAFETY CONSIDERATIONS

Installation and servicing of air-conditioning equipment can be hazardous due to system pressure and electrical components. Only trained and qualified service personnel should install, repair, or service air-conditioning equipment.

Untrained personnel can perform the basic maintenance functions of replacing filters. All other operations should be performed by trained service personnel. When working on air-conditioning equipment, observe precautions in the literature, tags and labels attached to the unit, and other safety precautions that may apply.

Follow all safety codes. Wear safety glasses and work gloves. Use quenching cloth for unbrazing operations. Have fire extinguishers available for all brazing operations.

Recognize safety information. This is the safety-alert symbol . When you see this symbol on the furnace and in instructions or manuals, be alert to the potential for personal injury.

Understand the signal words **DANGER**, **WARNING**, and **CAUTION**. These words are used with the safety-alert symbol. **DANGER** identifies the most serious hazards which **will** result in severe personal injury or death. **WARNING** signifies a hazard which **could** result in personal injury or death. **CAUTION** is used to identify unsafe practices which **may** result in minor personal injury or product and property damage. **NOTE** is used to highlight suggestions which **will** result in enhanced installation, reliability, or operation.

WARNING

UNIT OPERATION AND SAFETY HAZARD

Failure to follow this warning could cause personal injury, death and/or equipment damage.

Puron® (R-410A) refrigerant systems operate at higher pressures than standard R-22 systems. Do not use R-22 service equipment or components on Puron refrigerant equipment.

WARNING

ELECTRICAL SHOCK HAZARD

Failure to follow this warning could cause personal injury or death.

Before performing service or maintenance operations on unit, turn off main power switch to unit and install lockout tag. Ensure electrical service to rooftop unit agrees with voltage and amperage listed on the unit rating plate.

IMPORTANT: Units have high ambient operating limits. If limits are exceeded, the units will automatically lock the compressor out of operation. Manual reset will be required to restart the compressor.

INSTALLATION

Step 1 — Provide Unit Support

Roof Curb

Assemble or install accessory roof curb in accordance with instructions shipped with this accessory. (See Fig. 1.) Install insulation, cant strips, roofing, and counter flashing as shown. Ductwork can be installed to roof curb before unit is set in place. Ductwork must be attached to curb and not to unit. Curb must be level. This is necessary to permit unit drain to function properly. Unit leveling tolerance is $\pm 1/16$ -in. per linear ft in any direction. Refer to Accessory Roof Curb Installation Instructions for additional information as required. When accessory roof curb is used, unit may be installed on class A, B, or C roof covering material. Carrier roof curb accessories are for flat roofs or slab mounting.

| ROOFCURB ACCESSORY | CURB HEIGHT | DESCRIPTION |
|--------------------|-------------|--------------------|
| CRFCURB038C00 | 1'-2" (356) | ROOF CURB 14" HIGH |
| CRFCURB039C00 | 2'-0" (610) | ROOF CURB 24" HIGH |

MAX CURB LEVELING TOLERANCES:

| ROOFCURB | A | | B | |
|---------------|------|-----|------|-----|
| | DEG. | IN. | DEG. | IN. |
| CRFCURB038C00 | .28 | .57 | .28 | .42 |
| CRFCURB039C00 | | | | |

- NOTES:
1. ROOFCURB ACCESSORY IS SHIPPED DISASSEMBLED.
 2. DIMENSIONS IN () ARE IN MILLIMETERS.
 3. DIRECTION OF AIRFLOW.
 4. ROOF CURB: 16 GA. (VA03-56) STEEL.
 5. TO PREVENT THE HAZARD OF STAGNANT WATER BUILD-UP IN THE UNIT DO NOT EXCEED CURB LEVELING TOLERANCES.
 6. CLEARANCE BETWEEN UNIT BASE RAIL AND CURB FLANGE IS 1/4-IN. (6 MM) ON EACH SIDE.

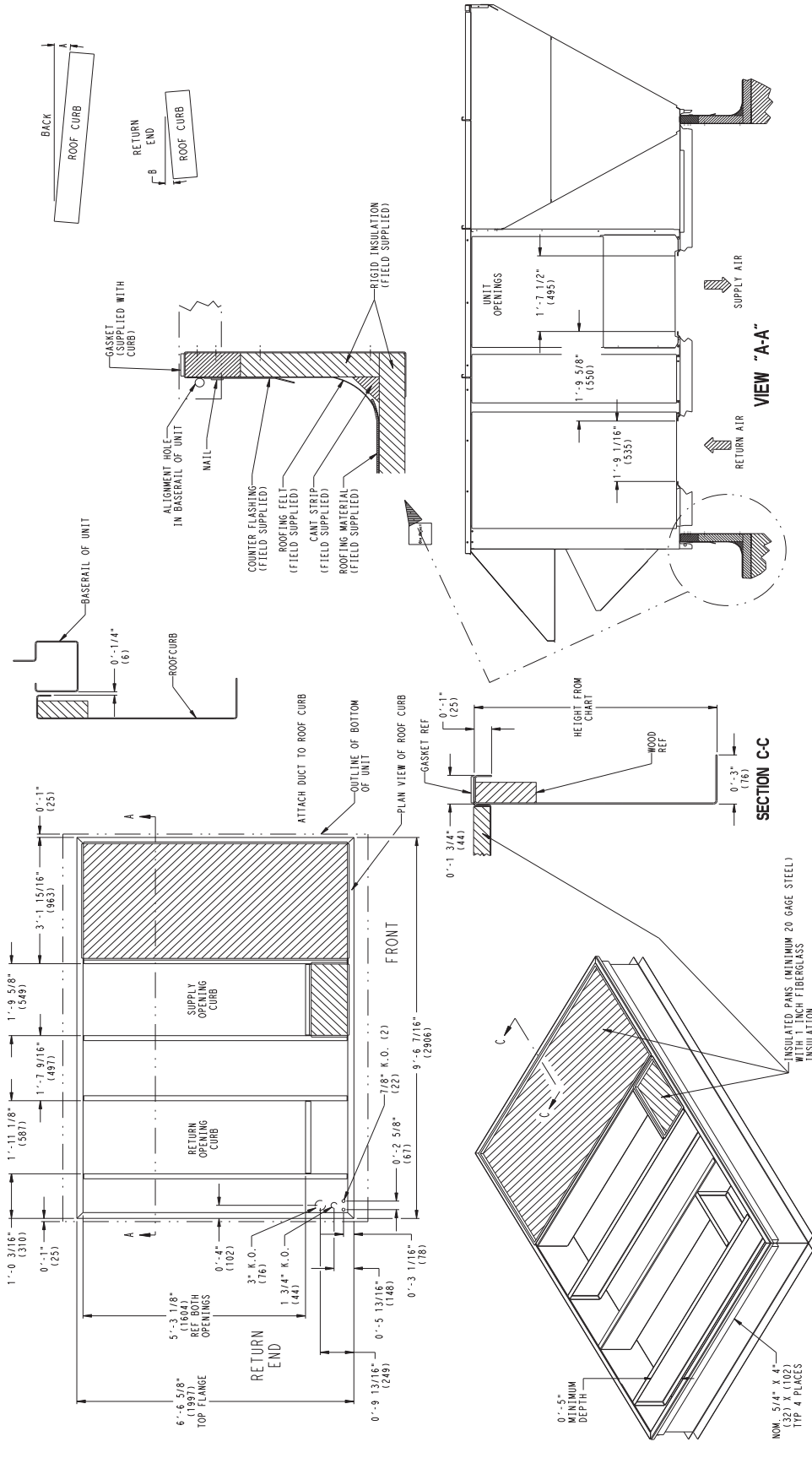
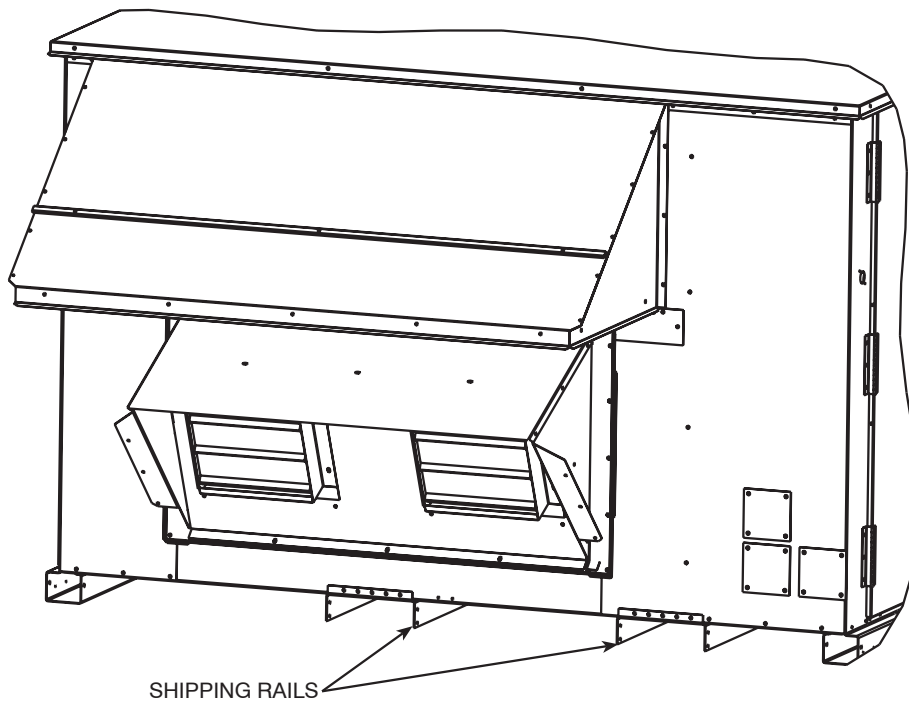


Fig. 1 - Roof Curb Details



SHIPPING RAILS

Fig. 2 - Shipping Rail Removal

C06273

IMPORTANT: The gasketing of the unit to the roof curb is critical for a watertight seal. Install gasket with the roof curb as shown in Fig. 1. Improperly applied gasket can also result in air leaks and poor unit performance. Do not slide unit to position on roof curb.

Alternate Unit Support

When a curb cannot be used, install unit on a noncombustible surface. Support unit with sleepers, using unit curb support area. If sleepers cannot be used, support long sides of unit with a minimum of 3 equally spaced 4-in. x 4-in. pads on each side.


Slab Mount (Horizontal Units Only)

Provide a level concrete slab that extends a minimum of 6-in. beyond unit cabinet. Install a gravel apron in front of condenser coil air inlet to prevent grass and foliage from obstructing airflow.

NOTE: Horizontal units may be installed on a roof curb if required.

Step 2 — Remove Shipping Rails

Remove shipping rails prior to lowering unit onto roof curb. (See Fig. 2.) The rails are attached to the unit at both the return end and condenser end. Remove the screws from both ends of each rail. Be careful not to drop the rails onto any surface that could be damaged. Discard the rails. It is important to replace the screws into the unit to avoid any air or water leakage.

| |
|---|
|  CAUTION |
| PERSONAL INJURY AND PROPERTY DAMAGE HAZARD Failure to follow this caution may result in damage to roof. All panels must be in place when rigging. Unit is not designed for handling by fork truck. |

Step 3 — Rig and Place Unit

Inspect unit for transportation damage. See Table 1-3 for physical data. File any claim with transportation agency.

Do not drop unit; keep upright. Use spreader bars over unit to prevent sling or cable damage. Rollers may be used to move unit across a roof. Level by using unit frame as a reference. Leveling tolerance is $\pm 1/16$ -in. per linear ft in any direction. See Fig. 3 for additional information and unit rigging weight.

Four lifting holes are provided in the unit base rails as shown in Fig. 3. Refer to rigging instructions on unit.

Positioning

Maintain clearance, per Fig. 6, around and above unit to provide minimum distance from combustible materials, proper airflow, and service access.

Do not install unit in an indoor location. Do not locate air inlets near exhaust vents or other sources of contaminated air.

Although unit is weatherproof, guard against water from higher level runoff and overhangs. Locate unit at least 10 ft away from adjacent units.

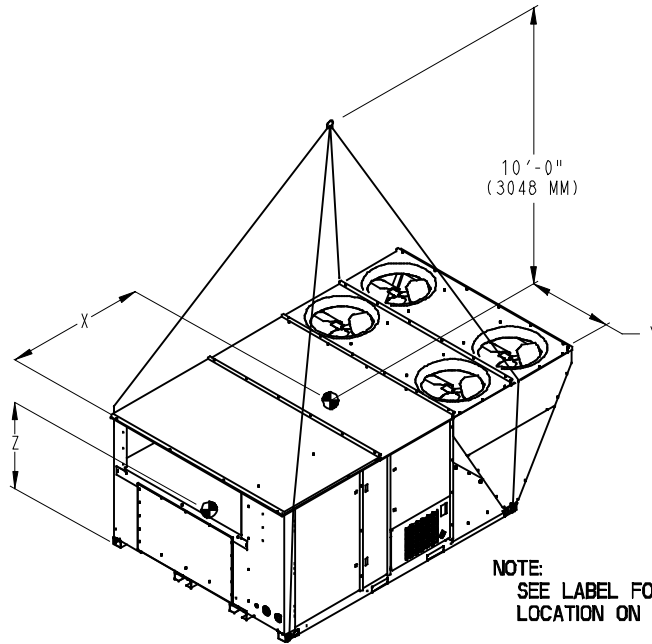


CAUTION - NOTICE TO RIGGERS:

ALL PANELS MUST BE IN PLACE WHEN RIGGING.

NOTICE TO RIGGERS: Rig by inserting hooks into unit base rails as shown. Maintain a distance of 120 inches (3048 MM) from top of unit to eyehook. Leave coil cover attached to unit while rigging to protect coil of unit from damage.

| UNIT SIZE | MAX WEIGHT (LBS) | CENTER OF GRAVITY (IN) | | |
|-----------|------------------|------------------------|------|------|
| | | X | Y | Z |
| PG20 | 3825 | 73.0 | 36.0 | 30.5 |
| PG24 | 4075 | 77.5 | 36.7 | 31.0 |
| PG28 | 4300 | 70.9 | 35.1 | 34.3 |
| PM16 | 3293 | 62.0 | 34.5 | 30.0 |
| PM20 | 3338 | 62.0 | 34.5 | 30.0 |
| PM24 | 3371 | 62.0 | 34.5 | 30.0 |
| PM28 | 3633 | 66.0 | 34.5 | 34.5 |
| PG20 ERV | 4526 | 172.7 | 86.6 | 29.6 |
| PG24 ERV | 4698 | 172.7 | 86.6 | 29.6 |
| PG28 ERV | 4968 | 158.9 | 86.6 | 33.2 |
| PM16 ERV | 4330 | 74.5 | 38.0 | 29.0 |
| PM20 ERV | 4375 | 74.5 | 38.0 | 29.0 |
| PM24 ERV | 4454 | 74.5 | 38.0 | 29.0 |
| PM28 ERV | 4689 | 79.0 | 38.0 | 32.5 |



NOTE:
Add 150lb (68kg) for domestic crating.

50TG503592 | 6.0

50PM

Fig. 3 - Rigging Details

C09196

Roof Mount

Check building codes for weight distribution requirements. Unit operating weight is shown in Table 1.

Installation Onto Curb

The 50PM units are designed to fit on the accessory full perimeter curb. Correct placement of the unit onto the curb is critical to operating performance. To aid in correct positioning, ³/₈-in. diameter locating holes have been added to the unit base rails. When placing the unit, these holes should line up with the roof curb edge as shown in Fig. 4 and 5, to assure proper duct opening alignment. For placement on the curb, use the alignment holes located approximately 2-in. from the end of the base rail on the return end of the unit. See labels on the side of the unit for more details.

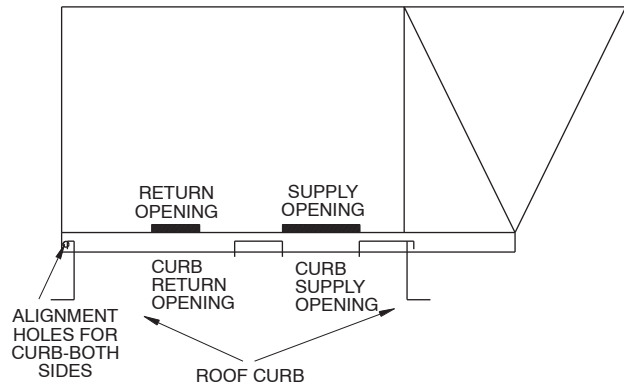


Fig. 5 - Alignment Hole Location

C06277

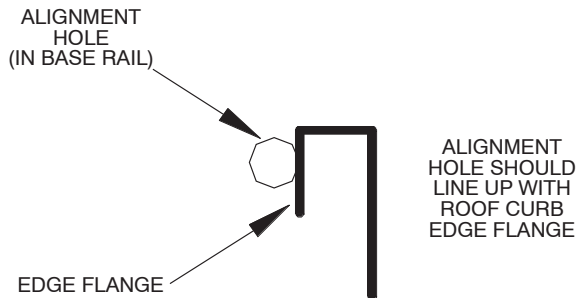


Fig. 4 - Alignment Hole Details

C06276

CAUTION

UNIT DAMAGE HAZARD

Failure to follow this caution may result in equipment damage.

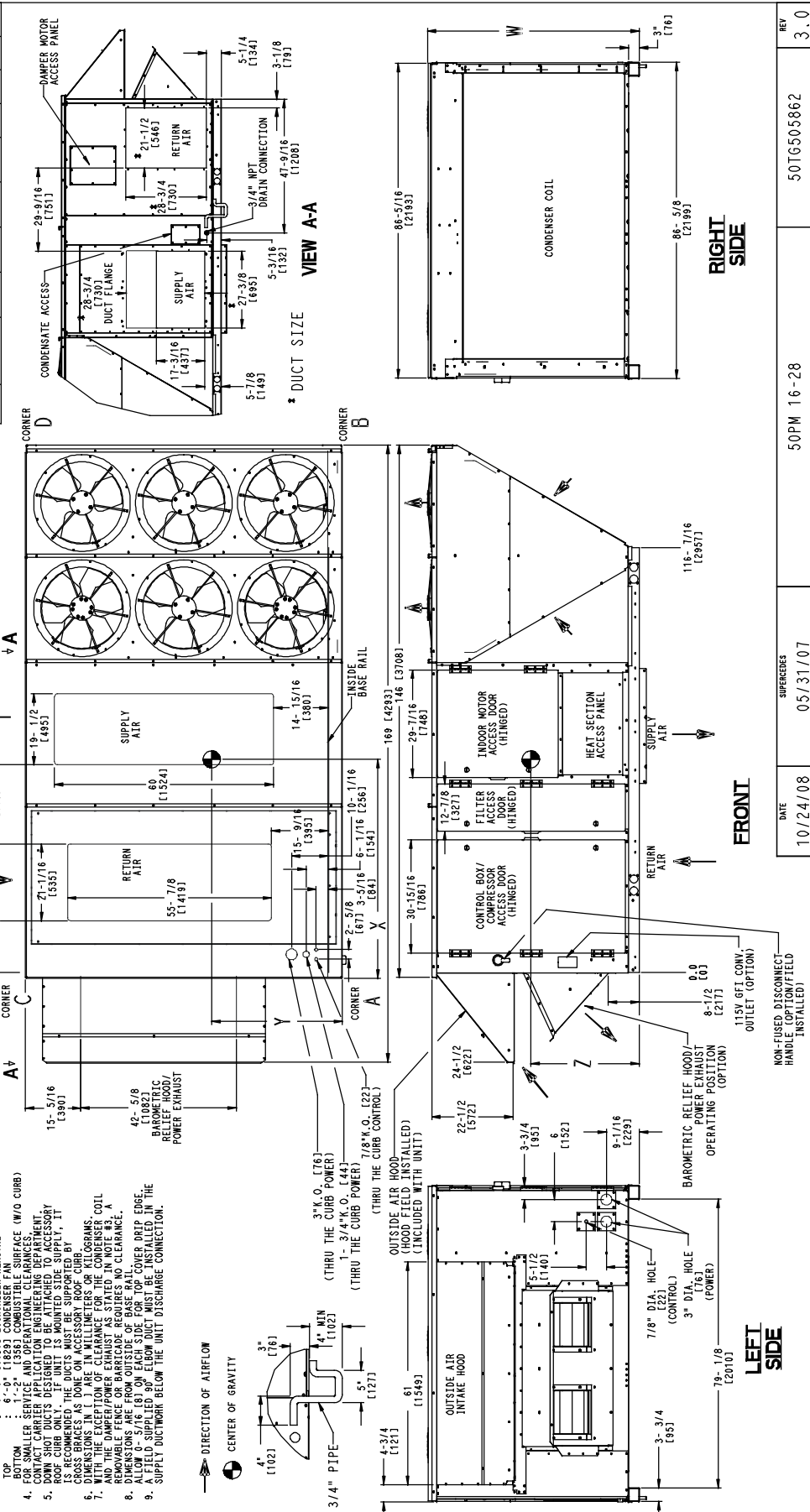
Do not slide unit to position when it is sitting on the curb. Curb gasketing material may be damaged and leaks may result.

UNITED TECHNOLOGIES STRUCORE, NY
CARRIER

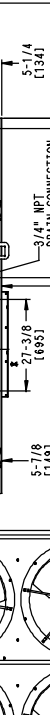
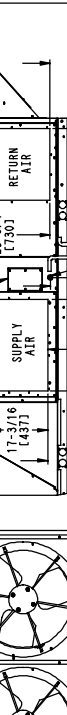
P.O. BOX 4999
19221

THIS DOCUMENT IS THE PROPERTY OF CARRIER CORPORATION AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF CARRIER CORPORATION. SUBMISSION OF THESE DRAWINGS OR DOCUMENTS DOES NOT CONSTITUTE PART PERFORMANCE OR ACCEPTANCE OF CONTRACT.

| UNIT SIZE | WEIGHT LBS. | HEIGHT IN. | CENTER OF GRAVITY LOCATION | | | CORNER WEIGHT LBS. | | |
|-----------|-------------|---------------|----------------------------|--------------|--------------|--------------------|-----------|-----------|
| | | | X (MM) | Y (MM) | Z (MM) | A (LBS.) | B (LBS.) | C (LBS.) |
| PM16 | 2171 (985) | 58-0 (1476) | 1157.5 (289) | 1157.5 (289) | 1157.5 (289) | 591 (132) | 698 (155) | 472 (106) |
| PM20 | 2216 (1005) | 58-7/8 (1476) | 1157.5 (289) | 1157.5 (289) | 1157.5 (289) | 617 (137) | 703 (156) | 471 (105) |
| PM24 | 2269 (1029) | 58-7/8 (1476) | 1157.5 (289) | 1157.5 (289) | 1157.5 (289) | 617 (137) | 703 (156) | 471 (105) |
| PM28 | 2389 (1084) | 70-1/8 (1781) | 1167.6 (293) | 1167.6 (293) | 1167.6 (293) | 617 (137) | 807 (180) | 541 (120) |



- NOTES:
- FOR OUTDOOR USE ONLY. WEIGHTS SHOWN ARE FOR SOPH COOLING ONLY UNIT COILS, AND STANDARD DRIVE FOR WEIGHTS OF OPTIONAL EQUIPMENT. CONSULT PRODUCT DATA BOOK.
 - MIN. CLEARANCES TO BE MAINTAINED AS SHOWN. LIGHT SIDE : 3'-0" (915) SERVICE FRONT SIDE : 3'-0" (915) SERVICE REAR SIDE : 6'-0" (1829) CONDENSER AIR : 6'-0" (1829) CONDENSER WATER : 6'-0" (1829) CONDENSER FAN : 6'-0" (1829) CONDENSER REMOVAL : 6'-0" (1829) CONDENSER FAN : 6'-0" (1829) CONDENSER REMOVAL (W/O CURB)
 - FOR SMALLER SERVICE APPLICATIONS, CONTACT CARRIER APPLICATION ENGINEERING DEPARTMENT.
 - DOWN SHOT DUCTS DESIGNED TO BE ATTACHED TO ACCESSORY IS REQUIRED. THE DUCTS MUST BE SUPPORTED BY CROSS BRACES AS SHOWN ON ACCESSORY ROOF CURB. DIMENSIONS IN L. ARE IN MILLIMETERS OR KILOGRAMS. WITH THE EXCEPTION OF CLEARANCE FROM CONDENSER COIL REMOVABLE FENCE OR BARRICADE REQUIRES NO CLEARANCE. DIMENSIONS ARE FROM OUTSIDE OF BASE RAIL. ALL DIMENSIONS ON EACH SIDE MUST BE COVERED BY THE SUPPLY DUCTWORK BELOW THE UNIT DISCHARGE CONNECTION.



| DATE | SUPERSEDES | REV |
|----------|------------|-----|
| 10/24/08 | 50PM 16-28 | 3.0 |
| 05/31/07 | 50TG505862 | |

Fig. 6 - Base Unit Dimensions

50PM

C09203

Table 1 – Physical Data

| UNIT 50PM | Units | PM16 | PM20 | PM24 | PM28 |
|---|----------------------|-----------------------------|--------------------|--------------------|---------------|
| DIMENSIONS | | | | | |
| Length | in | 145.8 | 145.8 | 145.8 | 145.8 |
| Width | in | 86.3 | 86.3 | 86.3 | 86.3 |
| Height | in | 57.8 | 57.8 | 57.8 | 69.8 |
| OPERATING WEIGHT | | | | | |
| Base unit (50 series) | lb | 2210 | 2216 | 2269 | 2389 |
| Base unit (48 series, low heat) | lb | 2325 | 2329 | 2344 | 2494 |
| COMPRESSOR | | | | | |
| Type | | Scroll | | | |
| Quantity | | 2 | 2 | 2 | 2 |
| Number of circuits | | 2 | 2 | 2 | 2 |
| Capacity Stages (%) Circuit 1 - Circuit 2 | | 50 - 50 | 50 - 50 | 50 - 50 | 50 - 50 |
| Oil type | | Copeland 3MA | | | |
| Oil quantity | | | | | |
| Circuit A | fl oz | 110 | 110 | 110 | 110 |
| Circuit B | fl oz | 60 | 60 | 110 | 110 |
| REFRIGERANT | | | | | |
| Type | | Puron (R410A) | | | |
| Operating charge - standard unit | | | | | |
| Circuit A | lb | 13.7 | 13.7 | 15.0 | 16.7 |
| Circuit B | lb | 12.0 | 12.0 | 15.0 | 16.7 |
| Operating charge - w/ Humidi-MiZer™ | | | | | |
| Circuit A | lb | 22.6 | 22.6 | 22.6 | 27.1 |
| Circuit B | lb | 20.9 | 20.9 | 22.6 | 27.1 |
| CONDENSER COIL | | | | | |
| Type | | MicroChannel | | | |
| Rows | | 1 | 1 | 1 | 1 |
| Fin density | fins/in | 20 | 20 | 20 | 20 |
| Total face area | ft ² | 52.6 | 52.6 | 57.0 | 65.5 |
| CONDENSER FAN | | | | | |
| Type | | Propeller | | | |
| Nominal airflow | ft ³ /min | 14400 | 14400 | 21000 | 21000 |
| Quantity | | 4 | 4 | 6 | 6 |
| Diameter | in | 22 | 22 | 22 | 22 |
| Motor Output (nominal) | HP | 0.25 | 0.25 | 0.25 | 0.25 |
| Motor speed (nominal) | rev/min | 1100 | 1100 | 1100 | 1100 |
| EVAPORATOR COIL | | | | | |
| Type | | Round Tube Plate Fin | | | |
| Rows | | 4 | 4 | 4 | 4 |
| Fin density | fins/in | 15 | 15 | 15 | 15 |
| Total face area | ft ² | 23.1 | 23.1 | 23.1 | 28.9 |
| Expansion device type | | Balanced-Port TXV w/ bypass | | | |
| Humidi-MiZer™ COIL (OPTIONAL) | | | | | |
| Type | | Round Tube Plate Fin | | | |
| Rows | | 2 | 2 | 2 | 2 |
| Fin density | fins/in | 15 | 15 | 15 | 15 |
| Total face area | ft ² | 12.4 | 12.4 | 12.4 | 17.1 |
| EVAPORATOR FAN | | | | | |
| Type | | Forward Curve Centrifugal | | | |
| Nominal airflow | ft ³ /min | 7200 | 7200 | 8000 | 10000 |
| Quantity | | 2 | 2 | 2 | 2 |
| Diameter x Width | in x in | 15x11 | 15x11 | 15x11 | 15x11 |
| Maximum allowable speed | RPM | 1400 | 1400 | 1400 | 1400 |
| Fan shaft diameter (nominal) | in | 1 3/16 | 1 3/16 | 1 3/16 | 1 3/16 |
| Drive type | | Belt | | | |
| Motor Output (nominal) | HP | 3.7, 5, 7.5, or 10 | 3.7, 5, 7.5, or 10 | 3.7, 5, 7.5, or 10 | 5, 7.5, or 10 |
| FILTERS | | | | | |
| Type | | Disposable | | | |
| Quantity | | 9 | 9 | 9 | 9 |
| Size - 2" (standard) | in ³ | 16x25x2 | 16x25x2 | 16x25x2 | 20x25x2 |
| Size - 4" (optional) | in ³ | 16x25x4 | 16x25x4 | 16x25x4 | 20x25x4 |

50PM

* Aluminum evaporator coil/aluminum condenser coil with low heat

** For applications less than 2000 ft elevation

*** Vertical application numbers shown.

Table 2 – Fan Motor and Drive Data — Vertical Supply/Return

| UNIT 50PM | 16 | | 20 | | 24 | | 28 | |
|---|------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|
| Voltage (volts) | 208/230 and 460 | 575 | 208/230 and 460 | 575 | 208/230 and 460 | 575 | 208/230 and 460 | 575 |
| LOW RANGE | | | | | | | | |
| Motor HP | 3.7 | 5 | 3.7 | 5 | 3.7 | 5 | 5 | 5 |
| Motor Nominal RPM | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 |
| Maximum Continuous BHP | 4.26 | 5.75 | 4.26 | 5.75 | 4.26 | 5.75 | 5.37 / 5.75 | 5.75 |
| Maximum Continuous Watts | 3700 | 5015 | 3700 | 5015 | 3700 | 5015 | 4578 / 5115 | 5015 |
| Motor Frame Size | 56HZ | S184T | 56HZ | S184T | 56HZ | S184T | S184T | S184T |
| Motor shaft diameter (in.) | 7/8 | 1 1/8 | 7/8 | 1 1/8 | 7/8 | 1 1/8 | 1 1/8 | 1 1/8 |
| Motor Pulley Pitch Diameter Min - Max (in) | 2.7 - 3.7 | 3.7 - 4.7 | 2.7 - 3.7 | 3.7 - 4.7 | 2.7 - 3.7 | 3.7 - 4.7 | 3.7 - 4.7 | 3.7 - 4.7 |
| Fan RPM Range | 685-939 | 751-954 | 685-939 | 751-954 | 685-939 | 751-954 | 687-873 | 687-873 |
| Blower Pulley Pitch Diameter (in.) | 6.8 | 8.6 | 6.8 | 8.6 | 6.8 | 8.6 | 9.4 | 9.4 |
| Pulley center line distance (in.) | 11.293-13.544 | 9.81-13.055 | 11.293-13.544 | 9.81-13.055 | 11.293-13.544 | 9.81-13.055 | 9.81-13.055 | 9.81-13.055 |
| Belt, Quantity..Type..Length (in.) | 1..BX38..39.8 | 1..BX40..41.8 | 1..BX38..39.8 | 1..BX40..41.8 | 1..BX38..39.8 | 1..BX40..41.8 | 1..BX41..42.8 | 1..BX41..42.8 |
| Speed change per turn - moveable pulley (RPM) | 42 | 34 | 42 | 34 | 42 | 34 | 31 | 31 |
| Moveable pulley maximum full turns | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Factory Speed setting (RPM) | 812 | 853 | 812 | 853 | 812 | 853 | 780 | 780 |
| MID-LOW RANGE | | | | | | | | |
| Motor HP | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Motor Nominal RPM | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 |
| Maximum Continuous BHP | 5.37 / 5.75 | 5.75 | 5.37 / 5.75 | 5.75 | 5.37 / 5.75 | 5.75 | 5.37 / 5.75 | 5.75 |
| Maximum Continuous Watts | 4578 / 5115 | 5015 | 4578 / 5115 | 5015 | 4578 / 5115 | 5015 | 4578 / 5115 | 5015 |
| Motor Frame Size | S184T | S184T | S184T | S184T | S184T | S184T | S184T | S184T |
| Motor shaft diameter (in.) | 1 1/8 | 1 1/8 | 1 1/8 | 1 1/8 | 1 1/8 | 1 1/8 | 1 1/8 | 1 1/8 |
| Motor Pulley Pitch Diameter Min - Max (in) | 3.7 - 4.7 | 3.7 - 4.7 | 3.7 - 4.7 | 3.7 - 4.7 | 3.7 - 4.7 | 3.7 - 4.7 | 4.8 - 6 | 4.8 - 6 |
| Fan RPM Range | 949-1206 | 949-1206 | 949-1206 | 949-1206 | 949-1206 | 949-1206 | 805-1007 | 805-1007 |
| Blower Pulley Pitch Diameter (in.) | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 10.4 | 10.4 |
| Pulley center line distance (in.) | 9.81-13.055 | 9.81-13.055 | 9.81-13.055 | 9.81-13.055 | 9.81-13.055 | 9.81-13.055 | 9.81-13.055 | 9.81-13.055 |
| Belt, Quantity..Type..Length (in.) | 1..BX38..39.8 | 1..BX38..39.8 | 1..BX38..39.8 | 1..BX38..39.8 | 1..BX38..39.8 | 1..BX38..39.8 | 1..BX45..46.8 | 1..BX45..46.8 |
| Speed change per turn - moveable pulley (RPM) | 43 | 43 | 43 | 43 | 43 | 43 | 34 | 34 |
| Moveable pulley maximum full turns | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Factory Speed setting (RPM) | 1078 | 1078 | 1078 | 1078 | 1078 | 1078 | 906 | 906 |
| MID-HIGH RANGE | | | | | | | | |
| Motor HP | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| Motor Nominal RPM | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 |
| Maximum Continuous BHP | 7.66/8.51 / 8.63 | 8.63 | 7.66/8.51 / 8.63 | 8.63 | 7.66/8.51 / 8.63 | 8.63 | 7.66/8.51 / 8.63 | 8.63 |
| Maximum Continuous Watts | 6458 / 7586 | 7586 | 6458 / 7586 | 7586 | 6458 / 7586 | 7586 | 6458 / 7586 | 7586 |
| Motor Frame Size | S213T | S213T | S213T | S213T | S213T | S213T | S213T | S213T |
| Motor shaft diameter (in.) | 1 3/8 | 1 3/8 | 1 3/8 | 1 3/8 | 1 3/8 | 1 3/8 | 1 3/8 | 1 3/8 |
| Motor Pulley Pitch Diameter Min - Max (in) | 4.8 - 6.0 | 4.8 - 6.0 | 4.8 - 6.0 | 4.8 - 6.0 | 4.8 - 6.0 | 4.8 - 6.0 | 4.8 - 6.0 | 4.8 - 6.0 |
| Fan RPM Range | 941-1176 | 941-1176 | 941-1176 | 941-1176 | 941-1176 | 941-1176 | 941-1176 | 941-1176 |
| Blower Pulley Pitch Diameter (in.) | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 |
| Pulley center line distance (in.) | 9.025-12.179 | 9.025-12.179 | 9.025-12.179 | 9.025-12.179 | 9.025-12.179 | 9.025-12.179 | 9.025-12.179 | 9.025-12.179 |
| Belt, Quantity..Type..Length (in.) | 1..BX42..43.8 | 1..BX42..43.8 | 1..BX42..43.8 | 1..BX42..43.8 | 1..BX42..43.8 | 1..BX42..43.8 | 1..BX42..43.8 | 1..BX42..43.8 |
| Speed change per turn - moveable pulley (RPM) | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 |
| Moveable pulley maximum full turns | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Factory Speed setting (RPM) | 1059 | 1059 | 1059 | 1059 | 1059 | 1059 | 1059 | 1059 |
| HIGH RANGE | | | | | | | | |
| Motor HP | N/A | N/A | 10 | 10 | 10 | 10 | 10 | 10 |
| Motor Nominal RPM | N/A | N/A | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 |
| Maximum Continuous BHP | N/A | N/A | 9.94/10.45 / 11.19 | 11.5 | 9.94/10.45 / 11.19 | 11.5 | 9.94/10.45 / 11.19 | 11.5 |
| Maximum Continuous Watts | N/A | N/A | 8284 / 9330 | 9711 | 8284 / 9330 | 9711 | 8284 / 9330 | 9711 |
| Motor Frame Size | N/A | N/A | S215T | S215T | S215T | S215T | S215T | S215T |
| Motor shaft diameter (in.) | N/A | N/A | 1 3/8 | 1 3/8 | 1 3/8 | 1 3/8 | 1 3/8 | 1 3/8 |
| Motor Pulley Pitch Diameter Min - Max (in) | N/A | N/A | 4.3 - 5.5 | 4.3 - 5.5 | 4.3 - 5.5 | 4.3 - 5.5 | 4.3 - 5.5 | 4.3 - 5.5 |
| Fan RPM Range | N/A | N/A | 1014-1297 | 1014-1297 | 1014-1297 | 1014-1297 | 1014-1297 | 1014-1297 |
| Blower Pulley Pitch Diameter (in.) | N/A | N/A | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 |
| Pulley center line distance (in.) | N/A | N/A | 9.025-12.179 | 9.025-12.179 | 9.025-12.179 | 9.025-12.179 | 9.025-12.179 | 9.025-12.179 |
| Belt, Quantity..Type..Length (in.) | N/A | N/A | 2..BX38..39.8 | 2..BX38..39.8 | 2..BX38..39.8 | 2..BX38..39.8 | 2..BX38..39.8 | 2..BX38..39.8 |
| Speed change per turn - moveable pulley (RPM) | N/A | N/A | 47 | 47 | 47 | 47 | 47 | 47 |
| Moveable pulley maximum full turns | N/A | N/A | 6 | 6 | 6 | 6 | 6 | 6 |
| Factory Speed setting (RPM) | N/A | N/A | 1156 | 1156 | 1156 | 1156 | 1156 | 1156 |

50PM

NOTE: See evaporator fan motor specifications.

Table 3 – Fan Motor and Drive Data — Horizontal Supply/Return

| UNIT 50PM | 16 | | 20 | | 24 | | 28 | |
|---|------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|
| Voltage (volts) | 208/230 and 460 | 575 | 208/230 and 460 | 575 | 208/230 and 460 | 575 | 208/230 and 460 | 575 |
| LOW RANGE | | | | | | | | |
| Motor HP | 3.7 | 5 | 3.7 | 5 | 3.7 | 5 | 5 | 5 |
| Motor Nominal RPM | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 |
| Maximum Continuous BHP | 4.26 | 5.75 | 4.26 | 5.75 | 4.26 | 5.75 | 5.37 / 5.75 | 5.75 |
| Maximum Continuous Watts | 3700 | 5015 | 3700 | 5015 | 3700 | 5015 | 4578 / 5115 | 5015 |
| Motor Frame Size | 56HZ | S184T | 56HZ | S184T | 56HZ | S184T | S184T | S184T |
| Motor shaft diameter (in.) | 7/8 | 1 1/8 | 7/8 | 1 1/8 | 7/8 | 1 1/8 | 1 1/8 | 1 1/8 |
| Motor Pulley Pitch Diameter Min - Max (in) | 2.7 - 3.7 | 3.7 - 4.7 | 2.7 - 3.7 | 3.7 - 4.7 | 2.7 - 3.7 | 3.7 - 4.7 | 3.7 - 4.7 | 3.7 - 4.7 |
| Fan RPM Range | 685-939 | 751-954 | 685-939 | 751-954 | 685-939 | 751-954 | 687-873 | 687-873 |
| Blower Pulley Pitch Diameter (in.) | 6.8 | 8.6 | 6.8 | 8.6 | 6.8 | 8.6 | 9.4 | 9.4 |
| Pulley center line distance (in.) | 11.293-13.544 | 9.81-13.055 | 11.293-13.544 | 9.81-13.055 | 11.293-13.544 | 9.81-13.055 | 9.81-13.055 | 9.81-13.055 |
| Belt, Quantity..Type..Length (in.) | 1..BX38..39.8 | 1..BX40..41.8 | 1..BX38..39.8 | 1..BX40..41.8 | 1..BX38..39.8 | 1..BX40..41.8 | 1..BX41..42.8 | 1..BX41..42.8 |
| Speed change per turn - moveable pulley (RPM) | 42 | 34 | 42 | 34 | 42 | 34 | 31 | 31 |
| Moveable pulley maximum full turns | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Factory Speed setting (RPM) | 812 | 853 | 812 | 853 | 812 | 853 | 780 | 780 |
| MID-LOW RANGE | | | | | | | | |
| Motor HP | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Motor Nominal RPM | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 |
| Maximum Continuous BHP | 5.37 / 5.75 | 5.75 | 5.37 / 5.75 | 5.75 | 5.37 / 5.75 | 5.75 | 5.37 / 5.75 | 5.75 |
| Maximum Continuous Watts | 4578 / 5115 | 5015 | 4578 / 5115 | 5015 | 4578 / 5115 | 5015 | 4578 / 5115 | 5015 |
| Motor Frame Size | S184T | S184T | S184T | S184T | S184T | S184T | S184T | S184T |
| Motor shaft diameter (in.) | 1 1/8 | 1 1/8 | 1 1/8 | 1 1/8 | 1 1/8 | 1 1/8 | 1 1/8 | 1 1/8 |
| Motor Pulley Pitch Diameter Min - Max (in) | 3.7 - 4.7 | 3.7 - 4.7 | 3.7 - 4.7 | 3.7 - 4.7 | 3.7 - 4.7 | 3.7 - 4.7 | 4.8 - 6 | 4.8 - 6 |
| Fan RPM Range | 949-1206 | 949-1206 | 949-1206 | 949-1206 | 949-1206 | 949-1206 | 805-1007 | 805-1007 |
| Blower Pulley Pitch Diameter (in.) | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 10.4 | 10.4 |
| Pulley center line distance (in.) | 9.81-13.055 | 9.81-13.055 | 9.81-13.055 | 9.81-13.055 | 9.81-13.055 | 9.81-13.055 | 9.81-13.055 | 9.81-13.055 |
| Belt, Quantity..Type..Length (in.) | 1..BX38..39.8 | 1..BX38..39.8 | 1..BX38..39.8 | 1..BX38..39.8 | 1..BX38..39.8 | 1..BX38..39.8 | 1..BX45..46.8 | 1..BX45..46.8 |
| Speed change per turn - moveable pulley (RPM) | 43 | 43 | 43 | 43 | 43 | 43 | 34 | 34 |
| Moveable pulley maximum full turns | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Factory Speed setting (RPM) | 1078 | 1078 | 1078 | 1078 | 1078 | 1078 | 906 | 906 |
| MID-HIGH RANGE | | | | | | | | |
| Motor HP | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| Motor Nominal RPM | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 |
| Maximum Continuous BHP | 7.66/8.51 / 8.63 | 8.63 | 7.66/8.51 / 8.63 | 8.63 | 7.66/8.51 / 8.63 | 8.63 | 7.66/8.51 / 8.63 | 8.63 |
| Maximum Continuous Watts | 6458 / 7586 | 7586 | 6458 / 7586 | 7586 | 6458 / 7586 | 7586 | 6458 / 7586 | 7586 |
| Motor Frame Size | S213T | S213T | S213T | S213T | S213T | S213T | S213T | S213T |
| Motor shaft diameter (in.) | 1 3/8 | 1 3/8 | 1 3/8 | 1 3/8 | 1 3/8 | 1 3/8 | 1 3/8 | 1 3/8 |
| Motor Pulley Pitch Diameter Min - Max (in) | 4.8 - 6.0 | 4.8 - 6.0 | 4.8 - 6.0 | 4.8 - 6.0 | 4.8 - 6.0 | 4.8 - 6.0 | 4.8 - 6.0 | 4.8 - 6.0 |
| Fan RPM Range | 941-1176 | 941-1176 | 941-1176 | 941-1176 | 941-1176 | 941-1176 | 941-1176 | 941-1176 |
| Blower Pulley Pitch Diameter (in.) | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 |
| Pulley center line distance (in.) | 9.025-12.179 | 9.025-12.179 | 9.025-12.179 | 9.025-12.179 | 9.025-12.179 | 9.025-12.179 | 9.025-12.179 | 9.025-12.179 |
| Belt, Quantity..Type..Length (in.) | 1..BX42..43.8 | 1..BX42..43.8 | 1..BX42..43.8 | 1..BX42..43.8 | 1..BX42..43.8 | 1..BX42..43.8 | 1..BX42..43.8 | 1..BX42..43.8 |
| Speed change per turn - moveable pulley (RPM) | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 |
| Moveable pulley maximum full turns | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Factory Speed setting (RPM) | 1059 | 1059 | 1059 | 1059 | 1059 | 1059 | 1059 | 1059 |
| HIGH RANGE | | | | | | | | |
| Motor HP | N/A | N/A | 10 | 10 | 10 | 10 | 10 | 10 |
| Motor Nominal RPM | N/A | N/A | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 |
| Maximum Continuous BHP | N/A | N/A | 9.94/10.45 / 11.19 | 11.5 | 9.94/10.45 / 11.19 | 11.5 | 9.94/10.45 / 11.19 | 11.5 |
| Maximum Continuous Watts | N/A | N/A | 8284 / 9330 | 9711 | 8284 / 9330 | 9711 | 8284 / 9330 | 9711 |
| Motor Frame Size | N/A | N/A | S215T | S215T | S215T | S215T | S215T | S215T |
| Motor shaft diameter (in.) | N/A | N/A | 1 3/8 | 1 3/8 | 1 3/8 | 1 3/8 | 1 3/8 | 1 3/8 |
| Motor Pulley Pitch Diameter Min - Max (in) | N/A | N/A | 4.3 - 5.5 | 4.3 - 5.5 | 4.3 - 5.5 | 4.3 - 5.5 | 4.3 - 5.5 | 4.3 - 5.5 |
| Fan RPM Range | N/A | N/A | 1014-1297 | 1014-1297 | 1014-1297 | 1014-1297 | 1014-1297 | 1014-1297 |
| Blower Pulley Pitch Diameter (in.) | N/A | N/A | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 |
| Pulley center line distance (in.) | N/A | N/A | 9.025-12.179 | 9.025-12.179 | 9.025-12.179 | 9.025-12.179 | 9.025-12.179 | 9.025-12.179 |
| Belt, Quantity..Type..Length (in.) | N/A | N/A | 2..BX38..39.8 | 2..BX38..39.8 | 2..BX38..39.8 | 2..BX38..39.8 | 2..BX38..39.8 | 2..BX38..39.8 |
| Speed change per turn - moveable pulley (RPM) | N/A | N/A | 47 | 47 | 47 | 47 | 47 | 47 |
| Moveable pulley maximum full turns | N/A | N/A | 6 | 6 | 6 | 6 | 6 | 6 |
| Factory Speed setting (RPM) | N/A | N/A | 1156 | 1156 | 1156 | 1156 | 1156 | 1156 |

NOTE: See evaporator fan motor specifications.

50PM

Step 4 — Field Fabricate Ductwork

On vertical units, secure all ducts to roof curb and building structure. *Do not connect ductwork to unit.* For horizontal applications, field-supplied flanges should be attached to horizontal discharge openings and all ductwork secured to the flanges. Insulate and weatherproof all external ductwork, joints, and roof openings with counter flashing and mastic in accordance with applicable codes.

Ducts passing through an unconditioned space must be insulated and covered with a vapor barrier.

If a plenum return is used on a vertical unit, the return should be ducted through the roof deck to comply with applicable fire codes.

A minimum clearance is not required around ductwork. Cabinet return-air static pressure (a negative condition) shall not exceed 0.35-in. wg with economizer or 0.45-in. wg without economizer.

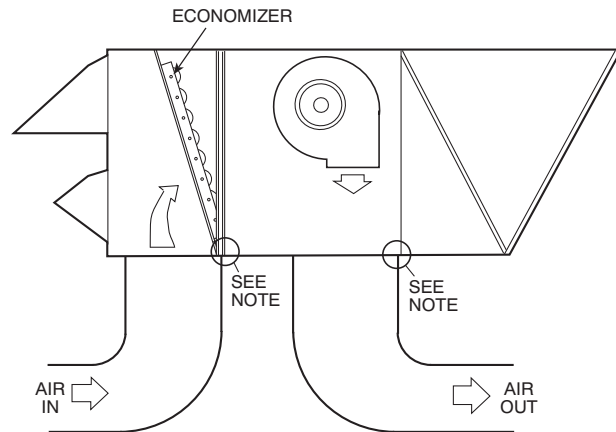
These units are designed for a minimum continuous return-air temperature in heating of 50°F (dry bulb), or an intermittent operation down to 45°F (dry bulb), such as when used with a night set-back thermostat.

To operate at lower return-air temperatures, a field-supplied outdoor-air temperature control must be used to initiate both stages of heat when the temperature is below 45°F. Indoor comfort may be compromised when these lower air temperatures are used with insufficient heating temperature rise.

Step 5 — Make Unit Connections

Vertical Configuration

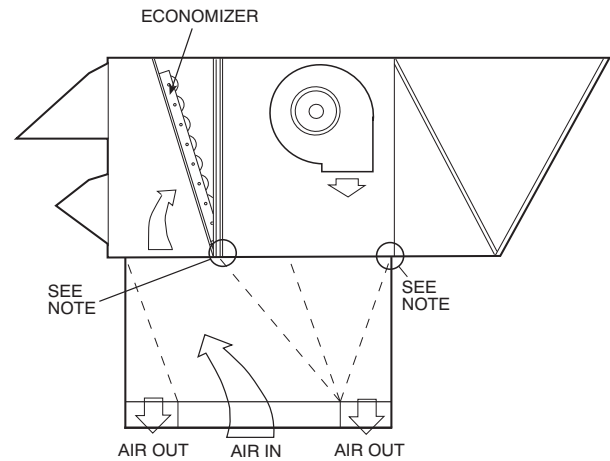
Unit is shipped for thru-the-bottom duct connections. Ductwork openings are shown in Fig. 1 and 6. Duct connections for vertical supply and return configuration are shown in Fig. 7. Field-fabricated concentric ductwork may be connected as shown in Fig. 8. The unit is designed to attach the ductwork to the roof curb. Do not attach duct directly to the unit.



NOTE: Do not drill in this area. Damage to basepan may result in water leak.

C06378

Fig. 7 - Air Distribution - Vertical Supply and Return



NOTE: Do not drill in this area. Damage to basepan may result in water leak.

C06379

Fig. 8 - Air Distribution - Concentric Duct

⚠ WARNING

UNIT DAMAGE AND PERSONAL INJURY HAZARD

Failure to follow this warning could cause equipment damage and/or personal injury.

For vertical supply and return units, tools or parts could drop into ductwork and cause an injury. Install a 90-degree turn in the return ductwork between the unit and the conditioned space. If a 90-degree elbow cannot be installed, then a grille of sufficient strength and density should be installed to prevent objects from falling into the conditioned space.

Units with electric heat require a 1-in. clearance for the first 24 in. of ductwork. Outlet grilles must not lie directly below unit discharge.

NOTE: A 90-degree elbow must be provided in the supply ductwork to comply with UL (Underwriters Laboratories) codes for use with electric heat.

Horizontal Applications

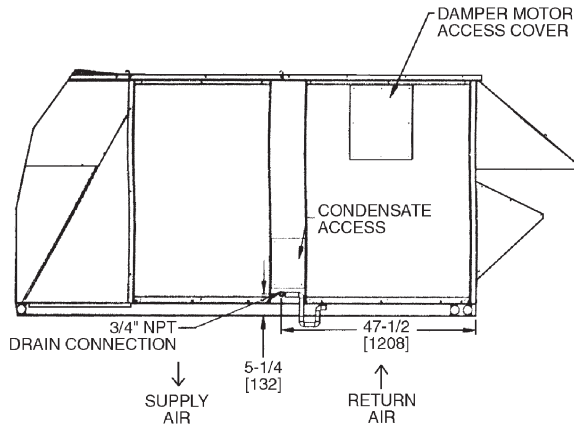
Horizontal units are shipped with outer panels that allow for side by side horizontal duct connections. If specified during ordering, the unit will be shipped with the vertical duct openings blocked off from the factory, ready for side supply installation. If the horizontal option was not specified at time of ordering the unit, a field-installed accessory kit is required to convert the vertical unit into a horizontal supply configuration.

Installation of the duct block-off covers should be completed prior to placing the unit unless sufficient side clearance is available. A minimum of 66-in. is required between the unit and any obstruction to install the duct block-off covers. Side supply duct dimensions and locations are shown on Fig. 6. Connect ductwork to horizontal duct flange connections on side of unit.

Step 6 — Trap Condensate Drain

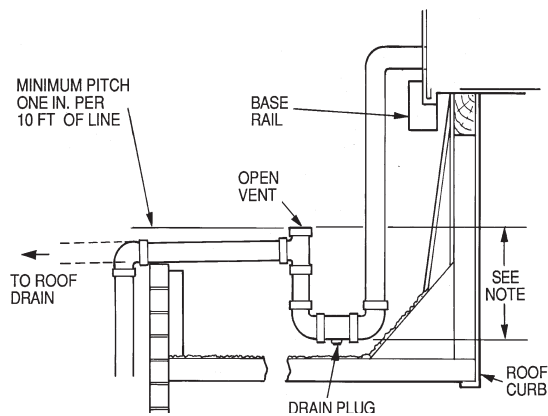
See Fig. 9 for drain location. One 3/4-in. half coupling is provided outside unit evaporator section for condensate drain connection. A trap at least 4-in. deep must be used. (See Fig. 10.)

All units must have an external trap for condensate drainage. Install a trap at least 4-in. deep and protect against freeze-up. If drain line is installed downstream from the external trap, pitch the line away from the unit at 1-in. per 10 ft of run. Do not use a pipe size smaller than the unit connection.



C06282

Fig. 9 - Condensate Drain Details



NOTE: Trap should be deep enough to offset maximum unit static difference. A 4-in. trap is recommended.

C06291

Fig. 10 - Condensate Drain Piping Details

Step 7 — Make Electrical Connections

⚠ WARNING

ELECTRICAL SHOCK AND FIRE HAZARD

Failure to follow this warning could result in electrical shock, fire, or death.

The cabinet **MUST** have an uninterrupted or unbroken ground according to NEC ANSI/NFPA 70-2002 and Canadian Electrical Code CSA C22.1 or local codes to minimize personal injury if an electrical fault should occur. This may consist of electrical wire or conduit approved for electrical ground when installed in accordance with existing electrical codes. Do not use gas piping as an electrical ground.

⚠ CAUTION

UNIT DAMAGE HAZARD

Failure to follow this caution may result in damage to unit.

The correct power phasing is critical to the operation of the scroll compressors. An incorrect phasing will result in an alarm being generated and compressor operation lockout. Should this occur, power phase correction must be made to the incoming power.

Field Power Supply

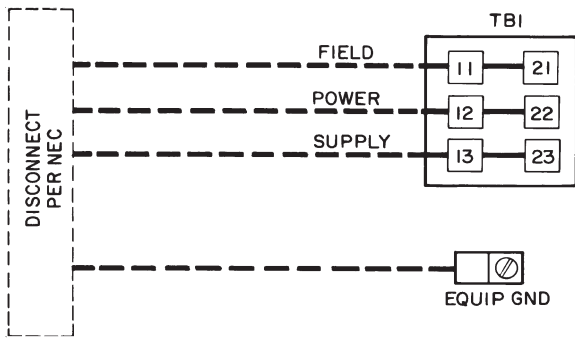
(For more details, refer to the Controls, Start-Up, Operation and Troubleshooting manual).

Unit is factory wired for voltage shown on unit nameplate. Be sure to check for correct voltage.

All 208/230-v units are factory wired for 230-v power supply. If the 208/230-v unit is to be connected to a 208-v power supply, transformers (TRAN1 and TRAN2) must be rewired by moving the black wire with the 1/4-in. female quick connect from the 230-v connection and moving to the 200-volt 1/4-in. male terminal on the primary side of the transformer.

When installing units, provide disconnect per NEC (National Electrical Code) of adequate size (MOCP [Maximum Overcurrent Protection] of unit is on the informative plate). (See Appendix A.) All field wiring must comply with NEC and local codes. Size wire based on MCA (Minimum Circuit Amps) on the unit informative plate. See Fig. 11 for power wiring connections to the unit power terminal block and equipment grounds.

Route power and ground lines through control box end panel or unit basepan (see Fig. 6) to connections as shown on unit wiring diagram and Fig. 11.



LEGEND
EQUIP - Equipment
GND - Ground
NEC - National Electrical Code
TB - Terminal Board

NOTE: The maximum wire size for TB1 is 2/0

C06293

Fig. 11 - Field Power Wiring Connections

Field wiring must conform to temperature limitations for type “T” wire. All field wiring must comply with NEC and local requirements.

Operating voltage to compressor must be within voltage range indicated on unit nameplate. On 3-phase units, voltages between phases must be balanced within 2%.

Unit failure as a result of operation on improper line voltage or excessive phase imbalance constitutes abuse and may cause damage to electrical components.

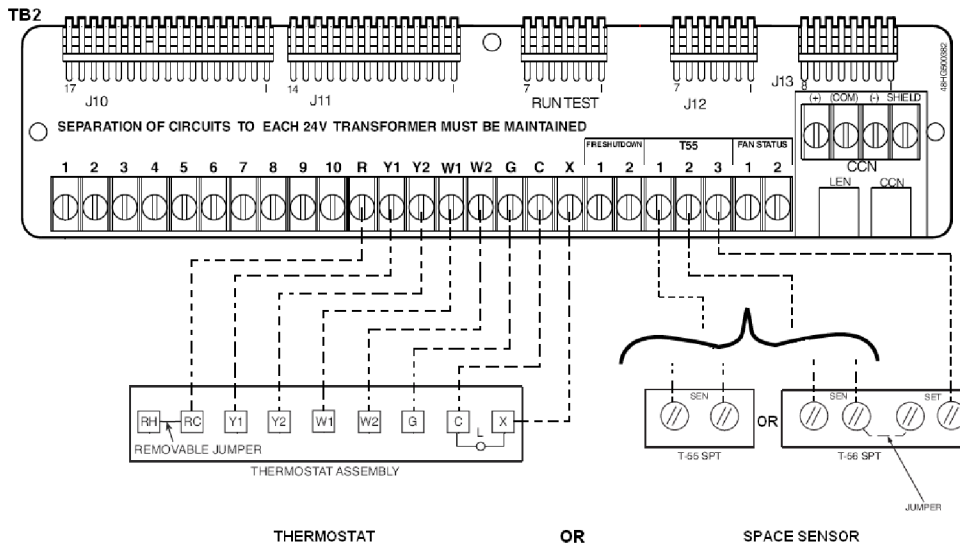


Fig. 12 - Field Control Thermostat Wiring

C09197

Field Control Wiring (Units Without Optional Humidi-MiZer™ Adaptive Dehumidification System)

Unit can be controlled with either a Carrier-approved accessory thermostat or a Carrier-approved space temperature sensor. Install thermostat according to the installation instructions included with accessory. Locate thermostat assembly or space temperature sensor on a solid interior wall in the conditioned space to sense average temperature.

Route thermostat or space temperature sensor cable or equivalent single leads of colored wire from subbase terminals through conduit into unit to low-voltage connections as shown on unit label wiring diagram and in Fig. 12.

NOTE: For wire runs up to 50 ft, use no. 18 AWG (American Wire Gauge) insulated wire (35°C minimum). For 50 to 75 ft, use no. 16 AWG insulated wire (35°C minimum). For over 75 ft, use no. 14 AWG insulated wire (35°C minimum). All wire larger than no. 18 AWG cannot be directly connected at the thermostat and will require a junction box and splice at the thermostat.

50PW

Set heat anticipator settings as shown in Table 4.

Table 4 – Heat Anticipator Settings

| UNIT SIZE 50PM | ELECTRIC HEAT (kW) | STAGE 1 (W1) ON | | | STAGES 1 AND 2 (W1 and W2) ON | | |
|-------------------|--------------------|-----------------|-----|-----|-------------------------------|-----|-----|
| | | Voltage | | | Voltage | | |
| | | 208/240 | 480 | 600 | 208/240 | 480 | 600 |
| 20-28 | 25 | 0.2 | 0.2 | 0.2 | 0.4 | 0.4 | 0.4 |
| | 50 | 0.4 | 0.2 | 0.2 | 0.8 | 0.4 | 0.4 |
| | 75 | 0.4 | 0.2 | 0.2 | 0.8 | 0.4 | 0.4 |

Settings may be changed slightly to provide a greater degree of comfort for a particular installation.

Field Control Wiring (Units with Optional Humidi-MiZer™ Adaptive Dehumidification System)

Units require temperature control inputs for cooling and heating operation and humidity control inputs for Humidi-MiZer™ operation.

Temperature Control

The unit can be controlled with either a Carrier-approved space temperature sensor, a Carrier accessory Thermidstat™ device, or a Carrier-approved accessory thermostat. Refer to unit price pages for reference. Install the temperature control device according to the installation instructions included with the accessory. Locate the device on a solid interior wall in the conditioned space to sense average temperature. Carrier space temperature sensor wiring connections are shown in Fig. 12. General thermostat field control wiring connections are shown in Fig. 12. Carrier Thermidstat device wiring connections are shown in Fig. 13. Configuration of the unit control is required to specify the control input type before unit operation.

Route thermostat or space temperature sensor cable or equivalent single leads of colored wire from subbase terminals through conduit into unit to low-voltage connections as shown on unit label wiring diagram and in Fig. 12.

NOTE: For wire runs up to 50 ft, use no. 18 AWG (American Wire Gauge) insulated wire (35°C minimum). For 50 to 75 ft, use no. 16 AWG insulated wire (35°C minimum). For over 75 ft, use no. 14 AWG insulated wire (35°C minimum). All wire larger than no. 18 AWG cannot be directly connected at the thermostat and will require a junction box and splice at the thermostat.

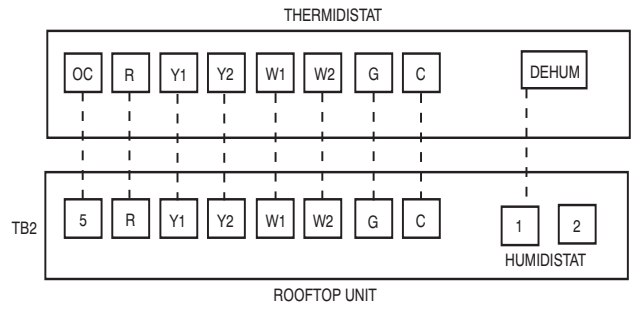


Fig. 13 - Field Control Thermidstat Wiring

C06295

Humidity Control

Unit can be controlled with either a Carrier accessory Thermidstat device or a Carrier-approved accessory humidistat (switch output). The input for an accessory humidity sensor with 4 to 20 mA output is another option available when an economizer board is installed.

Install the humidity control device according to the installation instructions included with the accessory. Locate the device on a solid interior wall in the conditioned space to sense average humidity. Carrier Thermidstat device wiring connections are shown in Fig. 13. General humidistat wiring connections are shown in Fig. 14. Configuration of the unit control is required to specify the control input type before unit operation. Refer to the Controls, Start-Up, Operation and Troubleshooting manual for configuration.

Units with the Humidi-MiZer™ option receive a discrete input from a field-installed device (such as from the Carrier humidistat or Thermidstat device). The discrete input is connected to the TB1 terminal strip points labeled Humidistat 1 and 2. As this is a discrete input, one of the connection points is for power to the switch and the other is the return path. (See Fig. 14.) A space relative humidity sensor input (SPRH) is only available if an economizer board (ECB) is installed in the unit and then the sensor can be connected to the OAQ point TB1-4. (See Fig. 14.) This input is used instead of the discrete humidistat or thermidstat inputs. The input controls the Humidi-MiZer™ using the 4 to 20mA as percent humidity. The relative humidity value (measured by the relative humidity sensor) can be displayed on the Scrolling Marquee, in the space through a System Pilot™ device, or can be read by other CCN devices where it can be used to perform more advanced functions. The humidity sensor must be configured correctly. Refer to the Controls, Start-Up, Operation, and Troubleshooting manual for details.

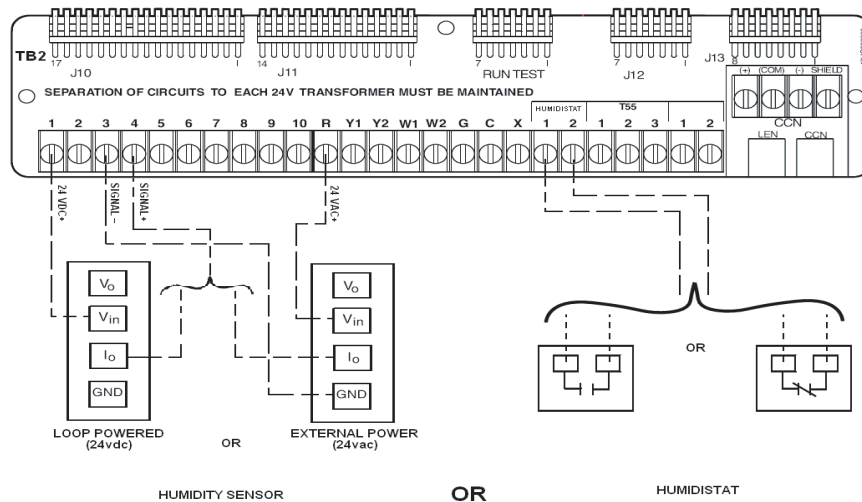


Fig. 14 - Field Control Humidistat Wiring

C07354

50PM

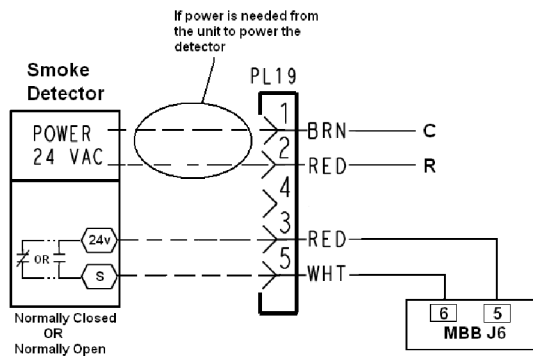


Fig. 15 - Third Party Smoke Detector Wiring

C09198

If the customer also wishes to install a smoke detector into a Humidi-MiZer™ equipped 50PM unit, the fire shutdown connection points are on Plug PL-19, located in the compressor section outside the control box. See the unit wiring schematic for wiring. For third-party smoke detector, refer to Fig. 15.

Point 19-3 is the 24 vac power source for the detector, and point 19-5 is the 24 vac signal input for fire shutdown.

More information is available in the third party control section of the Controls, Start-Up, Operation, and Troubleshooting manual.

Step 8 — Install Outdoor-Air Hood

NOTE: On units without economizers, the components are attached to the unit basepan. To access the components, remove the panel below the outdoor air intake section.

Perform the following procedure to install the outdoor-air hood on units equipped with an economizer, two-position damper, or outdoor-air damper:

1. Remove blank panel from return end of unit (hood section). Save the screws. See Fig. 16 for shipping location of components.
2. Hood sides are fastened to sides of outdoor air opening. Remove the hood sides and save the screws (3 each side).
3. Remove the bracket holding the bottom half of the hood in the shipping position. Remove the hood bottom half and filters (or manual dampers on units so equipped) from outdoor section.
4. Remove inner filter track from shipping position in outdoor section. Position inner filter track so the track is facing outward from the unit. Install the filter track with 4 screws provided.
5. Apply seal strip (provided) to back flange of both hood sides where hood side connects to the unit back panel. (See Fig. 17.)
6. Apply seal strip (provided) to top flange of both hood sides where hood sides connect to the hood top panels. (See Fig. 17.)

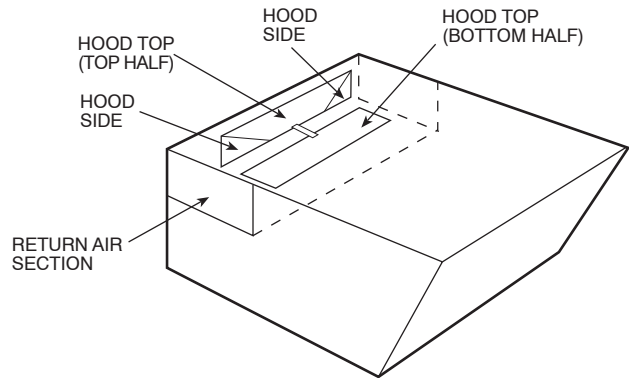


Fig. 16 - Outdoor-Air Hood Compartment Shipping Location

C06283

7. Install hood sides to the back panels using the screws from Step 2. The sloped flanges point outward. The drip edges of the side panels should face outward as well. The filter guides should face inward to hold the filters in place. (See Fig. 17.)
8. Apply seal strip along the entire length of the bottom flange of the hood top. (See Fig. 17.)
9. Install the bottom part of the hood top using 4 screws provided. (See Fig. 17.)
10. Remove the packaging from filters (3) and install into the filter tracks. Slide the filters to the sides then place the last filter into the center of the filter track.

NOTE: For units with manual dampers, replace the end filters with the manual dampers. Install the filter in the center between the manual dampers.

11. Install the filter retainer track along the bottom edge of the outdoor air hood using 4 screws provided. (See Fig. 17.)
12. Install top section of the outdoor air hood using 9 screws provided. (See Fig. 17.) See Fig. 18 for a picture of the assembled outdoor air hood.

NOTE: For filter removal, remove the four screws holding the filter retainer. The filters can then be removed, cleaned, or replaced. Install the filters by reversing the procedure.

Manual Damper Assembly

For units equipped with manual dampers, the assembly process is similar to the outdoor air hood for units with economizers. There are two slide dampers shipped with the unit to allow for manual setting of the outside air volume. When assembling the hood, place one of the manual slide dampers in each of the end positions and the remaining filter in the center position. The manual dampers can then be moved to the appropriate position and then locked into place using the screws mounted in the adjustment slots. (See Fig. 19.)

Step 9 — Position Optional Power Exhaust or Barometric Relief Damper Hood

The optional power exhaust or barometric relief dampers are shipped assembled and tilted back into the unit for shipping. Brackets and extra screws are shipped in shrink wrap around the dampers.

1. Remove 9 screws holding each damper assembly in place. (See Fig. 20.) Each damper assembly is secured with 3 screws on each side and 3 screws along the bottom. Save screws.

50PM

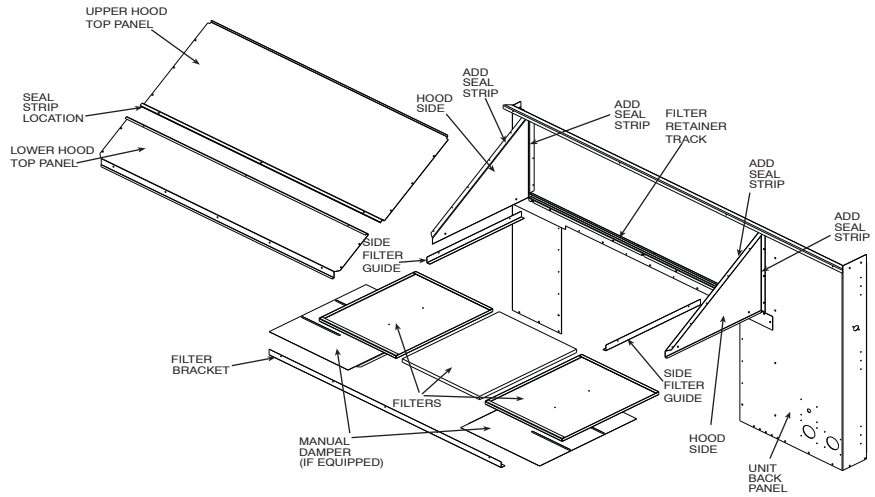


Fig. 17 - Outdoor Air Hood Details

C06284

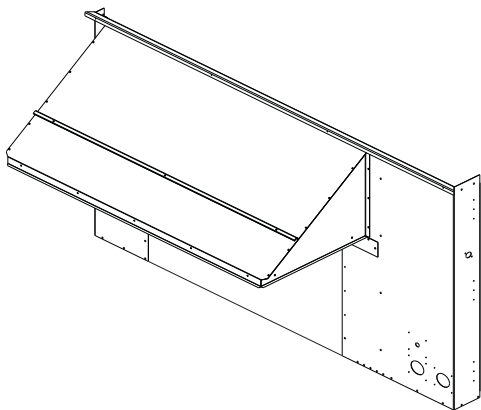


Fig. 18 - Outdoor Air Hood Assembled

C06285

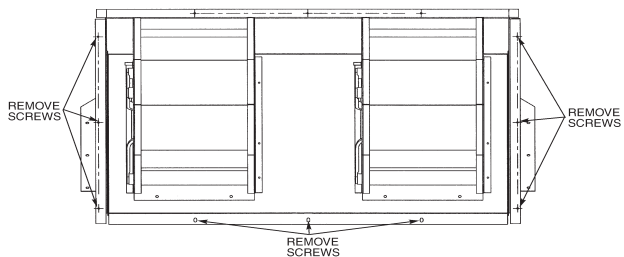


Fig. 20 - Power Exhaust or Barometric Relief Damper Mounting Details

C06287

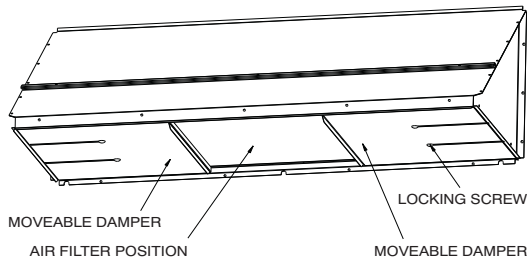


Fig. 19 - Manual Damper Details

C06286

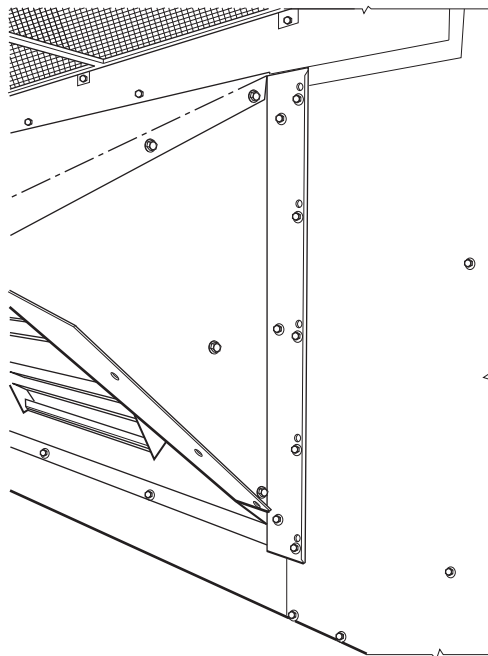


Fig. 21 - Bracket and Hood Positioning

C06288

CAUTION

PERSONAL INJURY HAZARD

Failure to follow this caution may result in personal injury. Be careful when tilting blower assembly. Hoods and blowers are heavy and can cause injury if dropped.

2. Pivot the damper assembly outward until top edge of damper assembly rests against inside wall of unit.
3. Secure each damper assembly to unit with 6 screws across top (3 screws provided) and bottom (3 screws from Step 1) of damper.
4. With screws saved from Step 1, install brackets on each side of damper assembly. (See Fig. 21.)
5. Remove tape from damper blades.

Step 10 — Non-Fused Disconnect

The handle for the factory-installed non-fused disconnect is shipped inside the unit to prevent the handle from damage during shipping. Follow these steps to complete installation of the handle.

WARNING

ELECTRICAL SHOCK HAZARD

Failure to follow this warning could result in personal injury or death.

Be sure power is shut-off to the unit from the building power supply and install lock-out tag-out for safety.

1. Open the control box access door.
2. Remove the small cover plate located on the unit corner post near the control section.
3. Remove the inner control box cover. The handle and shaft are located in a plastic bag at the bottom of the control box.
4. Insert the square shaft into the disconnect with the pins vertical. On the 100 amp disconnect the shaft is keyed into the disconnect and can only be installed one way with the pins vertical.
5. Insert the handle through the corner post and onto the shaft with the handle positioned so that “OFF” is on top.
6. Rotate the handle to the “ON” position to lock the pins into the handle.
7. From the inside of the corner post, attach the handle mounting screws to the handle. Slide the shaft fully into the handle and tighten the set screws(s) on the disconnect to lock the shaft. Tighten the screws that attach the handle to the corner post.
8. Rotate the handle back to the “OFF” position.
9. Replace all panels and doors.
10. Restore power to unit.

Step 11 — Install All Accessories

After all of the factory-installed options have been adjusted, install all field-installed accessories. Refer to the accessory installation instructions included with each accessory, and the unit Controls, Start-Up, Operation, Service, and Troubleshooting Instructions.

Step 12 — Configure Controls

Refer to unit Controls and Troubleshooting book for information on configuring controls.

Electrical Data - 50PM Units Without Optional Powered Convenience Outlet (CONT)

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | ELECTRIC HEAT † | | IFM | | POWER EXHAUST | | | POWER SUPPLY * † | | POWER SUPPLY WITH OPTIONAL BREAKER † | | DISCONNECT SIZE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|-----------------|---------------|-----|------------|-------|----------|-----|-----------------|----------|-----|-----|---------------|----|-----|------------------|-----|--------------------------------------|-----|-----------------|-------|----------|-----|------|-----|-----|---|------|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | Min | Max | No. 1 | No. 2 | FLA (ea) | FLA | kW | FLA (ea) | Hp | Qty | FLA (ea) | Hp | MCA | MOCIP | MCA | MOCIP | MCA | | MOCIP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 208/230-3-60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | 187 | 253 | 33.5 | 225 | 164 | 4 | 0.25 | 1.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | 460-3-60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 414 | 506 | 17.7 | 114 | 14.8 | 4 | 0.25 | 0.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Electrical Data - 50PM Units Without Optional Powered Convenience Outlet

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | | | ELECTRIC HEAT | | | IFM | | | POWER EXHAUST | | | POWER SUPPLY | | POWER SUPPLY WITH OPTIONAL BREAKER | | DISCONNECT SIZE |
|-----------|-----------------|---------------|-----|------------|-----|-----|-------|-----|-----|---------------|---------|----------|-----|-----|----------|---------------|---------|---------|--------------|---------|------------------------------------|----------|-----------------|
| | | Min | Max | No. 1 | | | No. 2 | | | KW | FLA | FLA (ea) | Hp | FLA | FLA (ea) | Qty | Hp | MCA | MOCPP | MCA | MOCPP | | |
| | | | | RLA | LRA | RLA | LRA | Qty | FLA | | | | | | | | | | | | | FLA (ea) | |
| 16 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | NA | NA | 56/75 | 156/180 | NA | NA | NA | NA | NA | 156/180 | 175/200 | 180/180 | 200/200 | 180/180 | 200/200 | 179/207 |
| 20 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | NA | NA | 56/75 | 156/180 | NA | NA | NA | NA | NA | 156/180 | 175/200 | 180/180 | 200/200 | 180/180 | 200/200 | 179/207 |
| 24 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | NA | NA | 56/75 | 156/180 | NA | NA | NA | NA | NA | 156/180 | 175/200 | 180/180 | 200/200 | 180/180 | 200/200 | 179/207 |
| 28 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | NA | NA | 56/75 | 156/180 | NA | NA | NA | NA | NA | 156/180 | 175/200 | 180/180 | 200/200 | 180/180 | 200/200 | 179/207 |

† Electric Heat Branch Circuit For 208/230/240v and nominal 75kW Electric Heat

Electrical Data - 50PM Units Without Optional Powered Convenience Outlet

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | | | ELECTRIC HEAT | | | IFM | | | POWER EXHAUST | | | POWER SUPPLY | | POWER SUPPLY WITH OPTIONAL BREAKER | | DISCONNECT SIZE |
|-----------|-----------------|---------------|-----|------------|-----|------|-------|-----|------|---------------|-------------|-----------|-----|-------------|----------|---------------|---------|---------|--------------|---------|------------------------------------|----------|-----------------|
| | | Min | Max | No. 1 | | | No. 2 | | | KW | FLA | FLA (ea) | Hp | FLA | FLA (ea) | Qty | Hp | MCA | MOCPP | MCA | MOCPP | | |
| | | | | RLA | LRA | RLA | LRA | Qty | FLA | | | | | | | | | | | | | FLA (ea) | |
| 16 | 208/230-3-60 | 187 | 253 | 25 | 164 | 25 | 164 | 4 | 0.25 | 1.5 | 56.3 / 68.9 | 156 / 180 | 3.7 | 10.6 / 19.6 | — | — | 169/192 | 200/225 | 192/192 | 200/225 | 192/192 | 200/225 | 192/218 |
| 20 | 208/230-3-60 | 187 | 253 | 33.5 | 225 | 29.6 | 164 | 4 | 0.25 | 1.5 | 56/75 | 156/180 | 5 | 16.7/15.2 | — | — | 184/207 | 200/225 | 207/207 | 200/225 | 207/207 | 200/225 | 205/232 |
| 24 | 208/230-3-60 | 187 | 253 | 40 | 239 | 33.5 | 225 | 6 | 0.25 | 1.5 | 56/75 | 156/180 | 5 | 16.7/15.2 | — | — | 177/199 | 200/225 | 199/199 | 200/225 | 199/199 | 200/225 | 199/224 |
| 28 | 208/230-3-60 | 187 | 253 | 48.1 | 245 | 48.1 | 245 | 6 | 0.25 | 1.5 | 56/75 | 156/180 | 7.5 | 24-222 | — | — | 192/214 | 200/225 | 222/222 | 200/225 | 222/222 | 200/225 | 212/238 |

LEGEND

- FLA — Full Load Amps
- IFM — Indoor (Evaporator) Fan Motor
- LRA — Locked Rotor Amps
- MCA — Minimum Circuit Amps
- MOCPP — Maximum Overcurrent Protection
- NEC — National Electrical Code
- OFM — Outdoor (Condenser) Fan Motor
- RLA — Rated Load Amps

† Feeder Circuit For 208/230/240v Unit with nominal 75kW Electric Heat
See General Notes for Electrical Data Tables on page 61.

Electrical Data - 50PM Units with Optional Powered Convenience Outlet (CONT)

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | IFIM | | ELECTRIC HEAT † | | | OFM | | | POWER EXHAUST | | | POWER SUPPLY * † | | POWER SUPPLY WITH OPTIONAL BREAKER † | | DISCONNECT SIZE | | | | | | | | | | | | |
|-----------|-----------------|---------------|-----|------------|---------|---------|---------|---------|---------|-----------------|---------|-----|----------|-----|----|---------------|-----|-------|------------------|-------|--------------------------------------|-------|-----------------|-----|-----------|---|---|-----|---------|---------|---------|---------|---------|---------|---------|
| | | Min | Max | No. 1 | No. 2 | RLA | LRA | Qty | Hp | FLA (ea) | kW | FLA | FLA (ea) | Qty | Hp | FLA (ea) | MCA | MOCIP | MCA | MOCIP | MCA | MOCIP | | FLA | | | | | | | | | | | |
| 20 | 575-3-60 | 518 | 633 | 13 | 80 | 11 | 78 | 4 | 0.25 | 0.7 | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | 5 | 6.1 | 2 | 1 | 2.4 | 39 | 50 | 39 | 50 | 39 | 50 | 41 |
| | | | | | | | | | | | | | | | | | | | | | | | | 7.5 | 9 | 2 | 1 | 2.4 | 42 | 50 | 42 | 50 | 42 | 50 | 45 |
| | | | | | | | | | | | | | | | | | | | | | | | | 10 | 11 | 2 | 1 | 2.4 | 44 | 50 | 44 | 50 | 44 | 50 | 47 |
| | | | | | | | | | | | | | | | | | | | | | | | | 5 | 6.1 | 2 | 1 | 2.4 | 41 | 50 | 41 | 50 | 41 | 50 | 41 |
| | | | | | | | | | | | | | | | | | | | | | | | | 7.5 | 9 | 2 | 1 | 2.4 | 45 | 50 | 45 | 50 | 45 | 50 | 45 |
| | | | | | | | | | | | | | | | | | | | | | | | | 10 | 11 | 2 | 1 | 2.4 | 51 | 60 | 51 | 60 | 51 | 60 | 50 |
| | | | | | | | | | | | | | | | | | | | | | | | | 5 | 6.1 | 2 | 1 | 2.4 | 48 | 50 | 48 | 50 | 48 | 50 | 47 |
| | | | | | | | | | | | | | | | | | | | | | | | | 7.5 | 9 | 2 | 1 | 2.4 | 54 | 60 | 54 | 60 | 54 | 60 | 52 |
| | | | | | | | | | | | | | | | | | | | | | | | | 10 | 11 | 2 | 1 | 2.4 | 69 | 70 | 69 | 70 | 69 | 70 | 63 |
| | | | | | | | | | | | | | | | | | | | | | | | | 5 | 6.1 | 2 | 1 | 2.4 | 73 | 80 | 73 | 80 | 73 | 80 | 69 |
| | | | | | | | | | | | | | | | | | | | | | | | | 7.5 | 9 | 2 | 1 | 2.4 | 79 | 80 | 79 | 80 | 79 | 80 | 67 |
| 10 | 11 | 2 | 1 | 2.4 | 81 | 80 | 81 | 80 | 81 | 80 | 69 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 6.1 | 2 | 1 | 2.4 | 86 | 100 | 86 | 100 | 86 | 100 | 97 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.5 | 9 | 2 | 1 | 2.4 | 92 | 100 | 92 | 100 | 92 | 100 | 102 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 11 | 2 | 1 | 2.4 | 96 | 100 | 96 | 100 | 96 | 100 | 100 | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | 208/230-3-60 | 187 | 253 | 40 | 239 | 33.5 | 225 | 6 | 0.25 | 1.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 1 | 5.9 | 108/107 | 125/125 | 108/108 | 125/125 | 108/108 | 125/125 | 113/112 |
| | | | | | | | | | | | | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 1 | 5.9 | 126/125 | 150/150 | 126/126 | 150/150 | 126/126 | 150/150 | 126/125 |
| | | | | | | | | | | | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 1 | 5.9 | 134/131 | 150/150 | 134/134 | 150/150 | 134/134 | 150/150 | 132/132 |
| | | | | | | | | | | | | | | | | | | | | | | | | 10 | 30.8/28 | 2 | 1 | 5.9 | 140/137 | 150/150 | 140/137 | 150/150 | 140/137 | 150/150 | 142/139 |
| | | | | | | | | | | | | | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 1 | 5.9 | 140/137 | 150/150 | 140/137 | 150/150 | 140/137 | 150/150 | 150/146 |
| | | | | | | | | | | | | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 1 | 5.9 | 157/145 | 175/175 | 157/157 | 175/175 | 157/157 | 175/175 | 145/161 |
| | | | | | | | | | | | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 1 | 5.9 | 167/154 | 175/175 | 167/167 | 175/175 | 167/167 | 175/175 | 158/175 |
| | | | | | | | | | | | | | | | | | | | | | | | | 10 | 30.8/28 | 2 | 1 | 5.9 | 181/169 | 200/175 | 181/181 | 200/200 | 181/181 | 200/200 | 167/183 |
| | | | | | | | | | | | | | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 1 | 5.9 | 190/176 | 200/200 | 190/190 | 200/200 | 190/190 | 200/200 | 174/190 |
| | | | | | | | | | | | | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 1 | 5.9 | 226/215 | 150/150 | 226/226 | 150/150 | 226/226 | 150/150 | 133/132 |
| | | | | | | | | | | | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 1 | 5.9 | 234/131 | 150/150 | 234/134 | 150/150 | 234/134 | 150/150 | 142/139 |
| 10 | 30.8/28 | 2 | 1 | 5.9 | 238/126 | 150/150 | 238/126 | 150/150 | 238/126 | 150/150 | 136/133 | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | 208/230-3-60 | 187 | 253 | 40 | 239 | 33.5 | 225 | 6 | 0.25 | 1.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 1 | 5.9 | 108/107 | 125/125 | 108/108 | 125/125 | 108/108 | 125/125 | 113/112 |
| | | | | | | | | | | | | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 1 | 5.9 | 126/125 | 150/150 | 126/126 | 150/150 | 126/126 | 150/150 | 126/125 |
| | | | | | | | | | | | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 1 | 5.9 | 134/131 | 150/150 | 134/134 | 150/150 | 134/134 | 150/150 | 132/132 |
| | | | | | | | | | | | | | | | | | | | | | | | | 10 | 30.8/28 | 2 | 1 | 5.9 | 140/137 | 150/150 | 140/137 | 150/150 | 140/137 | 150/150 | 142/139 |
| | | | | | | | | | | | | | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 1 | 5.9 | 140/137 | 150/150 | 140/137 | 150/150 | 140/137 | 150/150 | 150/146 |
| | | | | | | | | | | | | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 1 | 5.9 | 157/145 | 175/175 | 157/157 | 175/175 | 157/157 | 175/175 | 145/161 |
| | | | | | | | | | | | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 1 | 5.9 | 167/154 | 175/175 | 167/167 | 175/175 | 167/167 | 175/175 | 158/175 |
| | | | | | | | | | | | | | | | | | | | | | | | | 10 | 30.8/28 | 2 | 1 | 5.9 | 181/169 | 200/175 | 181/181 | 200/200 | 181/181 | 200/200 | 167/183 |
| | | | | | | | | | | | | | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 1 | 5.9 | 190/176 | 200/200 | 190/190 | 200/200 | 190/190 | 200/200 | 174/190 |
| | | | | | | | | | | | | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 1 | 5.9 | 226/215 | 150/150 | 226/226 | 150/150 | 226/226 | 150/150 | 133/132 |
| | | | | | | | | | | | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 1 | 5.9 | 234/131 | 150/150 | 234/134 | 150/150 | 234/134 | 150/150 | 142/139 |
| 10 | 30.8/28 | 2 | 1 | 5.9 | 238/126 | 150/150 | 238/126 | 150/150 | 238/126 | 150/150 | 136/133 | | | | | | | | | | | | | | | | | | | | | | | | |

See General Notes for Electrical Data Tables on page 61.



Branch and Feeder Circuit Data for PM16, 208/230V Unit with Nominal 75kW Electric Heater

Electrical Data - 50PM Units with Optional Powered Convenience Outlet

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | | | ELECTRIC HEAT | | | IFIM | | | POWER EXHAUST | | | POWER SUPPLY | | POWER SUPPLY WITH OPTIONAL BREAKER | | DISCONNECT SIZE | |
|-----------|-----------------|---------------|-----|------------|-----|-----|-------|-----|-------|---------------|----------|-----|------|----------|-----|---------------|----------|---------|--------------|---------|------------------------------------|---------|-----------------|----------|
| | | Min | Max | No. 1 | | | No. 2 | | | kW | FLA (ea) | FLA | Hp | FLA (ea) | Qty | Hp | FLA (ea) | Qty | MCA | MOCP | MCA | MOCP | | |
| | | | | RLA | LRA | RLA | LRA | Qty | Hp | | | | | | | | | | | | | | | FLA (ea) |
| 16 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | NA | 56/75 | 156/180 | NA | NA | NA | NA | NA | NA | NA | 156/180 | 175/200 | 180/180 | 200/200 | 180/180 | 200/200 | 179/207 |
| 20 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | NA | 56/75 | 156/180 | NA | NA | NA | NA | NA | NA | NA | 156/180 | 175/200 | 180/180 | 200/200 | 180/180 | 200/200 | 179/207 |
| 24 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | NA | 56/75 | 156/180 | NA | NA | NA | NA | NA | NA | NA | 156/180 | 175/200 | 180/180 | 200/200 | 180/180 | 200/200 | 179/207 |
| 28 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | NA | 56/75 | 156/180 | NA | NA | NA | NA | NA | NA | NA | 156/180 | 175/200 | 180/180 | 200/200 | 180/180 | 200/200 | 179/207 |

† Electric Heat Branch Circuit For 208/230/240v and nominal 75kW Electric Heat

Electrical Data - 50PM Units with Optional Powered Convenience Outlet

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | | | ELECTRIC HEAT | | | IFIM | | | POWER EXHAUST | | | POWER SUPPLY | | POWER SUPPLY WITH OPTIONAL BREAKER | | DISCONNECT SIZE | |
|-----------|-----------------|---------------|-----|------------|-----|------|-------|-----|------|---------------|-------------|-----------|------|------------|-----|---------------|----------|---------|--------------|---------|------------------------------------|---------|-----------------|----------|
| | | Min | Max | No. 1 | | | No. 2 | | | kW | FLA (ea) | FLA | Hp | FLA (ea) | Qty | Hp | FLA (ea) | Qty | MCA | MOCP | MCA | MOCP | | |
| | | | | RLA | LRA | RLA | LRA | Qty | Hp | | | | | | | | | | | | | | | FLA (ea) |
| 16 | 208/230-3-60 | 187 | 253 | 25 | 164 | 25 | 164 | 4 | 0.25 | 1.5 | 56.3 / 68.9 | 156 / 180 | 3.7 | 10.6 / 9.6 | — | — | — | 176/198 | 200/225 | 198/198 | 200/225 | 198/198 | 200/225 | 197/224 |
| 20 | 208/230-3-60 | 187 | 253 | 33.5 | 225 | 29.6 | 164 | 4 | 0.25 | 1.5 | 56/75 | 156/180 | 5 | 16.7/15.2 | — | — | — | 183/205 | 200/225 | 205/205 | 200/225 | 205/205 | 200/225 | 211/237 |
| 24 | 208/230-3-60 | 187 | 253 | 40 | 239 | 33.5 | 225 | 6 | 0.25 | 1.5 | 56/75 | 156/180 | 7.5 | 24.2/22 | — | — | — | 198/220 | 200/225 | 205/205 | 200/225 | 205/205 | 200/225 | 218/244 |
| 28 | 208/230-3-60 | 187 | 253 | 48.1 | 245 | 48.1 | 245 | 6 | 0.25 | 1.5 | 56/75 | 156/180 | 10 | 30.8/28 | — | — | — | 207/229 | 225/225 | 221/221 | 200/225 | 225/225 | 200/225 | 227/252 |
| | | | | | | | | | | | | | 3.7 | 10.6/9.6 | — | — | — | 176/198 | 200/225 | 198/198 | 200/225 | 198/198 | 200/225 | 197/224 |
| | | | | | | | | | | | | | 5 | 16.7/15.2 | — | — | — | 183/205 | 200/225 | 205/205 | 200/225 | 205/205 | 200/225 | 211/237 |
| | | | | | | | | | | | | | 7.5 | 24.2/22 | — | — | — | 198/220 | 200/225 | 205/205 | 200/225 | 205/205 | 200/225 | 218/244 |
| | | | | | | | | | | | | | 10 | 30.8/28 | — | — | — | 207/229 | 225/225 | 221/221 | 200/225 | 225/225 | 200/225 | 227/252 |
| | | | | | | | | | | | | | 3.7 | 10.6/9.6 | — | — | — | 176/198 | 200/225 | 198/198 | 200/225 | 198/198 | 200/225 | 197/224 |
| | | | | | | | | | | | | | 5 | 16.7/15.2 | — | — | — | 183/205 | 200/225 | 205/205 | 200/225 | 205/205 | 200/225 | 211/237 |
| | | | | | | | | | | | | | 7.5 | 24.2/22 | — | — | — | 198/220 | 200/225 | 205/205 | 200/225 | 205/205 | 200/225 | 218/244 |
| | | | | | | | | | | | | | 10 | 30.8/28 | — | — | — | 207/229 | 225/225 | 221/221 | 200/225 | 225/225 | 200/225 | 227/252 |
| | | | | | | | | | | | | | 3.7 | 10.6/9.6 | — | — | — | 176/198 | 200/225 | 198/198 | 200/225 | 198/198 | 200/225 | 197/224 |
| | | | | | | | | | | | | | 5 | 16.7/15.2 | — | — | — | 183/205 | 200/225 | 205/205 | 200/225 | 205/205 | 200/225 | 211/237 |
| | | | | | | | | | | | | | 7.5 | 24.2/22 | — | — | — | 198/220 | 200/225 | 205/205 | 200/225 | 205/205 | 200/225 | 218/244 |
| | | | | | | | | | | | | | 10 | 30.8/28 | — | — | — | 207/229 | 225/225 | 221/221 | 200/225 | 225/225 | 200/225 | 227/252 |
| | | | | | | | | | | | | | 3.7 | 10.6/9.6 | — | — | — | 176/198 | 200/225 | 198/198 | 200/225 | 198/198 | 200/225 | 197/224 |
| | | | | | | | | | | | | | 5 | 16.7/15.2 | — | — | — | 183/205 | 200/225 | 205/205 | 200/225 | 205/205 | 200/225 | 211/237 |
| | | | | | | | | | | | | | 7.5 | 24.2/22 | — | — | — | 198/220 | 200/225 | 205/205 | 200/225 | 205/205 | 200/225 | 218/244 |
| | | | | | | | | | | | | | 10 | 30.8/28 | — | — | — | 207/229 | 225/225 | 221/221 | 200/225 | 225/225 | 200/225 | 227/252 |
| | | | | | | | | | | | | | 3.7 | 10.6/9.6 | — | — | — | 176/198 | 200/225 | 198/198 | 200/225 | 198/198 | 200/225 | 197/224 |
| | | | | | | | | | | | | | 5 | 16.7/15.2 | — | — | — | 183/205 | 200/225 | 205/205 | 200/225 | 205/205 | 200/225 | 211/237 |
| | | | | | | | | | | | | | 7.5 | 24.2/22 | — | — | — | 198/220 | 200/225 | 205/205 | 200/225 | 205/205 | 200/225 | 218/244 |
| | | | | | | | | | | | | | 10 | 30.8/28 | — | — | — | 207/229 | 225/225 | 221/221 | 200/225 | 225/225 | 200/225 | 227/252 |
| | | | | | | | | | | | | | 3.7 | 10.6/9.6 | — | — | — | 176/198 | 200/225 | 198/198 | 200/225 | 198/198 | 200/225 | 197/224 |
| | | | | | | | | | | | | | 5 | 16.7/15.2 | — | — | — | 183/205 | 200/225 | 205/205 | 200/225 | 205/205 | 200/225 | 211/237 |
| | | | | | | | | | | | | | 7.5 | 24.2/22 | — | — | — | 198/220 | 200/225 | 205/205 | 200/225 | 205/205 | 200/225 | 218/244 |
| | | | | | | | | | | | | | 10 | 30.8/28 | — | — | — | 207/229 | 225/225 | 221/221 | 200/225 | 225/225 | 200/225 | 227/252 |
| | | | | | | | | | | | | | 3.7 | 10.6/9.6 | — | — | — | 176/198 | 200/225 | 198/198 | 200/225 | 198/198 | 200/225 | 197/224 |
| | | | | | | | | | | | | | 5 | 16.7/15.2 | — | — | — | 183/205 | 200/225 | 205/205 | 200/225 | 205/205 | 200/225 | 211/237 |
| | | | | | | | | | | | | | 7.5 | 24.2/22 | — | — | — | 198/220 | 200/225 | 205/205 | 200/225 | 205/205 | 200/225 | 218/244 |
| | | | | | | | | | | | | | 10 | 30.8/28 | — | — | — | 207/229 | 225/225 | 221/221 | 200/225 | 225/225 | 200/225 | 227/252 |
| | | | | | | | | | | | | | 3.7 | 10.6/9.6 | — | — | — | 176/198 | 200/225 | 198/198 | 200/225 | 198/198 | 200/225 | 197/224 |
| | | | | | | | | | | | | | 5 | 16.7/15.2 | — | — | — | 183/205 | 200/225 | 205/205 | 200/225 | 205/205 | 200/225 | 211/237 |
| | | | | | | | | | | | | | 7.5 | 24.2/22 | — | — | — | 198/220 | 200/225 | 205/205 | 200/225 | 205/205 | 200/225 | 218/244 |
| | | | | | | | | | | | | | 10 | 30.8/28 | — | — | — | 207/229 | 225/225 | 221/221 | 200/225 | 225/225 | 200/225 | 227/252 |
| | | | | | | | | | | | | | 3.7 | 10.6/9.6 | — | — | — | 176/198 | 200/225 | 198/198 | 200/225 | 198/198 | 200/225 | 197/224 |
| | | | | | | | | | | | | | 5 | 16.7/15.2 | — | — | — | 183/205 | 200/225 | 205/205 | 200/225 | 205/205 | 200/225 | 211/237 |
| | | | | | | | | | | | | | 7.5 | 24.2/22 | — | — | — | 198/220 | 200/225 | 205/205 | 200/225 | 205/205 | 200/225 | 218/244 |
| | | | | | | | | | | | | | 10 | 30.8/28 | — | — | — | 207/229 | 225/225 | 221/221 | 200/225 | 225/225 | 200/225 | 227/252 |
| | | | | | | | | | | | | | 3.7 | 10.6/9.6 | — | — | — | 176/198 | 200/225 | 198/198 | 200/225 | 198/198 | 200/225 | 197/224 |
| | | | | | | | | | | | | | 5 | 16.7/15.2 | — | — | — | 183/205 | 200/225 | 205/205 | 200/225 | 205/205 | 200/225 | 211/237 |
| | | | | | | | | | | | | | 7.5 | 24.2/22 | — | — | — | 198/220 | 200/225 | 205/205 | 200/225 | 205/205 | 200/225 | 218/244 |
| | | | | | | | | | | | | | 10 | 30.8/28 | — | — | — | 207/229 | 225/225 | 221/221 | 200/225 | 225/225 | 200/225 | 227/252 |

† Feeder Circuit For 208/230/240v Unit with nominal 75kW Electric Heat
See General Notes for Electrical Data Tables on page 61.

- LEGEND**
- Full Load Amps
 - FLA Indoor (Evaporator) Fan Motor
 - IFM Locked Rotor Amps
 - LRA Minimum Circuit Amps
 - MCA Maximum Overcurrent Protection
 - MOCP National Electrical Code
 - NEC National Electrical Code
 - OFM Outdoor (Condenser) Fan Motor
 - RLA Rated Load Amps

50PM

Electrical Data - 50PM16 - 28 Energy X Without Optional Unit Powered Convenience Outlet

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | ELECTRIC HEAT † | | IFM | | ERV SUPPLY | | ERV EXHAUST | | ERV WHEEL | | POWER SUPPLY † | | DISCONNECT SIZE † | | | | | | | | |
|-----------|-----------------|---------------|-----|------------|-----|------|------|-----------------|------|------|----------|------------|----------|-------------|-----------|-----------|----------|----------------|----------|-------------------|---|----------|----------|----------|----------|---------|---------|---------|
| | | Min | Max | RLA | LRA | RLA | LRA | No. 2 | FLA | HP | FLA (ea) | HP | FLA (ea) | Qty | FLA (ea) | HP | FLA | MCA | MOCP | | | | | | | | | |
| 16 | 208/230-3-60 | 187 | 253 | 25 | 164 | 25 | 164 | 164 | 1.5 | 0.25 | 4 | 0.25 | 19/25 | 52/60 | 3.7 | 10.9/9.6 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 98/95 | 110/100 | 106/102 |
| | | | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 104/100 | 125/125 | 113/108 |
| | | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 112/107 | 125/125 | 121/116 |
| | | | | | | | | | | | | | | | 3.7 | 10.9/9.6 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 110/116 | 125/125 | 106/106 |
| | | | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 118/123 | 125/125 | 113/113 |
| | | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 127/131 | 150/150 | 121/121 |
| | 460-3-60 | 414 | 506 | 12.8 | 100 | 100 | 12.8 | 100 | 0.7 | 0.25 | 4 | 0.25 | 38/50 | 104/120 | 3.7 | 10.9/9.6 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 183/182 | 200/175 | 161/175 |
| | | | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 187/182 | 200/175 | 161/175 |
| | | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 192/176 | 200/200 | 177/190 |
| | | | | | | | | | | | | | | | 3.7 | 10.9/9.6 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 192/176 | 200/200 | 177/190 |
| | | | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 192/176 | 200/200 | 177/190 |
| | | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 192/176 | 200/200 | 177/190 |
| 20 | 208/230-3-60 | 187 | 253 | 33.5 | 225 | 29.6 | 164 | 1.5 | 0.25 | 4 | 0.25 | 19/25 | 52/60 | 3.7 | 10.9/9.6 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 183/168 | 200/175 | 161/175 | |
| | | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 187/168 | 200/175 | 161/175 | |
| | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 192/176 | 200/175 | 161/175 | |
| | | | | | | | | | | | | | | 3.7 | 10.9/9.6 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 192/176 | 200/175 | 161/175 | |
| | | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 192/176 | 200/175 | 161/175 | |
| | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 192/176 | 200/175 | 161/175 | |
| | 460-3-60 | 414 | 506 | 17.7 | 114 | 14.8 | 100 | 0.7 | 0.25 | 4 | 0.25 | 56/75 † | 156/180 | 3.7 | 10.9/9.6 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 200/184 | 225/200 | 184/197 | |
| | | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 200/184 | 225/200 | 184/197 | |
| | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 200/184 | 225/200 | 184/197 | |
| | | | | | | | | | | | | | | 3.7 | 10.9/9.6 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 200/184 | 225/200 | 184/197 | |
| | | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 200/184 | 225/200 | 184/197 | |
| | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 200/184 | 225/200 | 184/197 | |

See General Notes for Electrical Data Tables on page 61.

Electrical Data - 50PM16 - 28 EnergyX Without Optional Unit Powered Convenience Outlet (CONT)

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | OFM | | ELECTRIC HEAT † | | IFM | | ERV SUPPLY | | ERV EXHAUST | | ERV WHEEL | | POWER SUPPLY † | | DISCONNECT SIZE † | |
|-----------|-----------------|---------------|-----|------------|-----|------|-----|-----|------|-----------------|----|-----|-----------|------------|----------|-------------|----|-----------|-------|----------------|---------|-------------------|---------|
| | | Min | Max | RLA | LRA | RLA | LRA | Qty | Hp | FLA (ea) | KW | FLA | FLA (ea) | Hp | FLA (ea) | Qty | Hp | FLA (ea) | FLA | FLA | MCA | | MOCOP |
| 20 | 575-3-60 | 518 | 633 | 13 | 80 | 11 | 78 | 4 | 0.25 | 0.7 | 24 | 5 | 6.1 | 2 | 2.4 | 2 | 3 | 3.3 | 0.167 | 0.3 | 45 | 50 | 49 |
| | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 2 | 3 | 3.3 | 0.167 | 0.3 | 48 | 60 | 52 |
| | | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 2 | 3 | 3.3 | 0.167 | 0.3 | 50 | 60 | 54 |
| | | | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 2 | 3 | 3.3 | 0.167 | 0.3 | 49 | 50 | 49 |
| | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 2 | 3 | 3.3 | 0.167 | 0.3 | 53 | 60 | 52 |
| | | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 2 | 3 | 3.3 | 0.167 | 0.3 | 55 | 60 | 54 |
| | | | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 2 | 3 | 3.3 | 0.167 | 0.3 | 77 | 80 | 71 |
| | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 2 | 3 | 3.3 | 0.167 | 0.3 | 80 | 90 | 74 |
| | | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 2 | 3 | 3.3 | 0.167 | 0.3 | 83 | 90 | 76 |
| | | | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 2 | 3 | 3.3 | 0.167 | 0.3 | 94 | 100 | 84 |
| 24 | 460-3-60 | 187 | 253 | 40 | 239 | 33.5 | 225 | 6 | 0.25 | 1.5 | 75 | 5 | 6.1 | 2 | 2.4 | 2 | 3 | 3.3 | 0.167 | 0.3 | 98 | 100 | 107 |
| | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 2 | 3 | 3.3 | 0.167 | 0.3 | 100 | 110 | 110 |
| | | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 2 | 3 | 3.3 | 0.167 | 0.3 | 107 | 110 | 110 |
| | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 129/125 | 150/150 | 136/132 |
| | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 135/131 | 150/150 | 143/139 |
| | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 142/138 | 175/175 | 152/147 |
| | | | | | | | | | | | | 10 | 30.8/28 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 149/144 | 175/175 | 160/154 |
| | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 129/125 | 150/150 | 136/132 |
| | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 135/131 | 150/150 | 143/139 |
| | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 142/138 | 175/175 | 152/147 |
| 24 | 460-3-60 | 414 | 506 | 19.5 | 125 | 17.7 | 114 | 6 | 0.25 | 0.7 | 30 | 5 | 6.1 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 63 | 80 | 77 |
| | | | | | | | | | | | | 7.5 | 9 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 69 | 80 | 77 |
| | | | | | | | | | | | | 10 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 72 | 90 | 88 |
| | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 129/125 | 150/150 | 136/132 |
| | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 135/131 | 150/150 | 143/139 |
| | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 142/138 | 175/175 | 152/147 |
| | | | | | | | | | | | | 10 | 30.8/28 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 149/144 | 175/175 | 160/154 |
| | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 63 | 80 | 77 |
| | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 69 | 80 | 77 |
| | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 72 | 90 | 88 |
| 24 | 460-3-60 | 518 | 633 | 16.6 | 80 | 13 | 80 | 6 | 0.25 | 0.7 | 75 | 5 | 6.1 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 118 | 125 | 129 |
| | | | | | | | | | | | | 7.5 | 9 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 122 | 125 | 133 |
| | | | | | | | | | | | | 10 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 125 | 133 | 133 |
| | | | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 2 | 3 | 3.3 | 0.167 | 0.3 | 53 | 60 | 57 |
| | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 2 | 3 | 3.3 | 0.167 | 0.3 | 56 | 60 | 60 |
| | | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 2 | 3 | 3.3 | 0.167 | 0.3 | 58 | 60 | 62 |
| | | | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 2 | 3 | 3.3 | 0.167 | 0.3 | 53 | 60 | 57 |
| | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 2 | 3 | 3.3 | 0.167 | 0.3 | 56 | 60 | 60 |
| | | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 2 | 3 | 3.3 | 0.167 | 0.3 | 58 | 60 | 62 |
| | | | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 2 | 3 | 3.3 | 0.167 | 0.3 | 53 | 60 | 57 |

See General Notes for Electrical Data Tables on page 61.



Electrical Data - 50PM16 - 28 EnergyX Without Optional Unit Powered Convenience Outlet (CONT)

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | ELECTRIC HEAT † | | IFM | | ERV SUPPLY | | ERV EXHAUST | | | ERV WHEEL | | POWER SUPPLY † | | DISCONNECT SIZE † | | |
|-----------|-----------------|---------------|------|------------|-----|-----|-------|-----------------|-----|----------|-----------|------------|----------|-------------|----------|----------|-----------|----------|----------------|----------|-------------------|----------|---------|
| | | Min | Max | No. 1 | RLA | LRA | No. 2 | RLA | LRA | FLA (ea) | FLA (ea) | FLA (ea) | FLA (ea) | FLA (ea) | FLA (ea) | FLA (ea) | FLA (ea) | FLA (ea) | FLA (ea) | FLA (ea) | | FLA (ea) | |
| 28 | 208/230-3-Ø | 187 | 253 | 48.1 | 245 | 245 | 245 | - | - | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 8.85/8.0 | 2 | 8.85/8.0 | 2 | 159/155 | 200/200 | 169/165 |
| | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 8.85/8.0 | 2 | 167/162 | 200/200 | 178/173 | | |
| | | | | | | | | | | 10 | 30.8/28 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 8.85/8.0 | 2 | 173/168 | 200/200 | 186/180 | | |
| | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 8.85/8.0 | 2 | 159/155 | 200/200 | 169/165 | | |
| | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 8.85/8.0 | 2 | 167/162 | 200/200 | 178/173 | | |
| | | | | | | | | | | 10 | 30.8/28 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 8.85/8.0 | 2 | 173/168 | 200/200 | 186/180 | | |
| | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 8.85/8.0 | 2 | 159/155 | 200/200 | 169/165 | | |
| | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 8.85/8.0 | 2 | 167/162 | 200/200 | 178/173 | | |
| | | | | | | | | | | 10 | 30.8/28 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 8.85/8.0 | 2 | 173/168 | 200/200 | 186/180 | | |
| | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 8.85/8.0 | 2 | 159/155 | 200/200 | 169/165 | | |
| 460-3-Ø | 414 | 506 | 22.5 | 125 | 125 | 125 | - | - | - | 5 | 7.6 | 2 | 3.2 | 2 | 3.2 | 2 | 3.2 | 2 | 3.2 | 2 | 74 | 90 | 79 |
| | | | | | | | | | | 7.5 | 11 | 2 | 3.2 | 2 | 3.2 | 2 | 3.2 | 2 | 77 | 90 | 83 | | |
| | | | | | | | | | | 10 | 14 | 2 | 3.2 | 2 | 3.2 | 2 | 3.2 | 2 | 80 | 100 | 86 | | |
| | | | | | | | | | | 5 | 7.6 | 2 | 3.2 | 2 | 3.2 | 2 | 3.2 | 2 | 74 | 90 | 79 | | |
| | | | | | | | | | | 7.5 | 11 | 2 | 3.2 | 2 | 3.2 | 2 | 3.2 | 2 | 77 | 90 | 83 | | |
| | | | | | | | | | | 10 | 14 | 2 | 3.2 | 2 | 3.2 | 2 | 3.2 | 2 | 80 | 100 | 86 | | |
| | | | | | | | | | | 5 | 7.6 | 2 | 3.2 | 2 | 3.2 | 2 | 3.2 | 2 | 74 | 90 | 79 | | |
| | | | | | | | | | | 7.5 | 11 | 2 | 3.2 | 2 | 3.2 | 2 | 3.2 | 2 | 77 | 90 | 83 | | |
| | | | | | | | | | | 10 | 14 | 2 | 3.2 | 2 | 3.2 | 2 | 3.2 | 2 | 80 | 100 | 86 | | |
| | | | | | | | | | | 5 | 7.6 | 2 | 3.2 | 2 | 3.2 | 2 | 3.2 | 2 | 74 | 90 | 79 | | |
| 575-3-Ø | 518 | 633 | 18 | 100 | 100 | 100 | 24 | 48.3 | 78 | 5 | 6.1 | 2 | 2.4 | 2 | 3.3 | 2 | 3.3 | 2 | 3.3 | 2 | 60 | 70 | 64 |
| | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 2 | 3.3 | 2 | 3.3 | 2 | 63 | 80 | 67 | | |
| | | | | | | | | | | 10 | 11 | 2 | 2.4 | 2 | 3.3 | 2 | 3.3 | 2 | 65 | 80 | 70 | | |
| | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 2 | 3.3 | 2 | 3.3 | 2 | 60 | 70 | 64 | | |
| | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 2 | 3.3 | 2 | 3.3 | 2 | 63 | 80 | 67 | | |
| | | | | | | | | | | 10 | 11 | 2 | 2.4 | 2 | 3.3 | 2 | 3.3 | 2 | 65 | 80 | 70 | | |
| | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 2 | 3.3 | 2 | 3.3 | 2 | 60 | 70 | 64 | | |
| | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 2 | 3.3 | 2 | 3.3 | 2 | 63 | 80 | 67 | | |
| | | | | | | | | | | 10 | 11 | 2 | 2.4 | 2 | 3.3 | 2 | 3.3 | 2 | 65 | 80 | 70 | | |
| | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 2 | 3.3 | 2 | 3.3 | 2 | 60 | 70 | 64 | | |

LEGEND

- FLA - Full Load Amps
- IFM - Indoor (Evaporator) Fan Motor
- LRA - Locked Rotor Amps
- MCA - Minimum Circuit Amps
- MOCP - Maximum Overcurrent Protection
- NEC - National Electrical Code
- OFM - Outdoor (Condenser) Fan Motor
- RLA - Rated Load Amps

* Fuse or circuit breaker.
 †208/230 v 75-kW Electric Heat units must use dual-point wiring. The main table lists the branch circuit values for the refrigeration part of the system. See separate tables for the branch circuit values for the electric heat and values for a feeder circuit for both branch circuits.
 See General Notes for Electrical Data Tables on page 61.

Electrical Data - 50PM16 - 28 EnergyX Without Optional Unit Powered Convenience Outlet (CONT)

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | | | ELECTRIC HEAT | | | IFM | | ERV SUPPLY | | | ERV EXHAUST | | | ERV WHEEL | | POWER SUPPLY | | DISCONNECT SIZE |
|-----------|-----------------|---------------|-----|------------|-----|-----|-------|-----|-----|---------------|----------|----|-----|----------|------------|----------|----|-------------|----|----------|-----------|-----|--------------|---------|-----------------|
| | | Min | Max | No. 1 | | | No. 2 | | | kW | FLA (ea) | Hp | FLA | FLA (ea) | Hp | FLA (ea) | Hp | FLA (ea) | Hp | FLA (ea) | FLA | FLA | MCA | MCCP | |
| | | | | RLA | LRA | LRA | RLA | LRA | Qty | | | | | | | | | | | | | | | | |
| 16 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 156/180 | 175/200 | 179/207 |
| 20 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 156/180 | 175/200 | 179/207 |
| 24 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 156/180 | 175/200 | 179/207 |
| 28 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 156/180 | 175/200 | 179/207 |

† Electric Heat Branch Circuit for 50PM16—28 unit 208/230/240v with 75 –kW Electric Heat

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | | | ELECTRIC HEAT | | | IFM | | ERV SUPPLY | | | ERV EXHAUST | | | ERV WHEEL | | POWER SUPPLY | | DISCONNECT SIZE | | | | | |
|-----------|-----------------|---------------|-----|------------|-----|------|-------|------|-----|---------------|----------|-------|---------|----------|------------|----------|----------|-------------|----------|----------|-----------|----------|--------------|----------|-----------------|---------|----------|---------|----|----------|
| | | Min | Max | No. 1 | | | No. 2 | | | kW | FLA (ea) | Hp | FLA | FLA (ea) | Qty | Hp | FLA (ea) | Qty | Hp | FLA (ea) | Qty | Hp | FLA (ea) | Qty | | Hp | FLA (ea) | Qty | Hp | FLA (ea) |
| | | | | RLA | LRA | LRA | RLA | LRA | Qty | | | | | | | | | | | | | | | | | | | | | |
| 16 | 208/230-3-60 | 187 | 253 | 25 | 164 | 25 | 164 | 25 | 164 | 4 | 0.25 | 1.5 | 56/75 | 156/180 | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 201/221 | 225/225 | 221/244 | | |
| 20 | 208/230-3-60 | 187 | 253 | 33.5 | 225 | 29.6 | 164 | 0.25 | 1.5 | 4 | 0.25 | 56/75 | 156/180 | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 209/228 | 225/250 | 236/259 | | | |
| 24 | 208/230-3-60 | 187 | 253 | 40 | 239 | 33.5 | 225 | 0.25 | 1.5 | 6 | 0.25 | 56/75 | 156/180 | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 201/221 | 225/225 | 221/244 | | | |
| 28 | 208/230-3-60 | 187 | 253 | 48.1 | 245 | 48.1 | 245 | 0.25 | 1.5 | 6 | 0.25 | 56/75 | 156/180 | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 218/236 | 225/250 | 236/259 | | | |

LEGEND

- Full Load Amps
- Indoor (Evaporator) Fan Motor
- Locked Rotor Amps
- Minimum Circuit Amps
- Maximum Overcurrent Protection
- National Electrical Code
- Outdoor (Condenser) Fan Motor
- Rated Load Amps

† Electric Heat Branch Circuit for 50PM16—28, 208/230/240v EnergyX unit and 75 –kW Electric Heat
See General Notes for Electrical Data Tables on page 61.



Electrical Data - 50PM16 - 28 EnergyX with Optional Unit Powered Convenience Outlet

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | OFM | | ELECTRIC HEAT † | | IFM | | ERV SUPPLY | | ERV EXHAUST | | ERV WHEEL | | POWER SUPPLY † | | DISCONNECT SIZE † | |
|-----------|-----------------|---------------|-----|------------|-----|-----|-------|------|------|-----------------|-------|-----|-----------|------------|----------|-------------|----|-----------|-------|----------------|---------|-------------------|---------|
| | | Min | Max | RLA | RLA | RLA | No. 2 | Qty | Hp | FLA (ea) | kW | FLA | FLA (ea) | Hp | FLA (ea) | Qty | Hp | FLA (ea) | FLA | FLA | MCA | | MOCP |
| 16 | 208/230-3-0 | 187 | 253 | 25 | 164 | 164 | 1.5 | 4 | 0.25 | 19/25 | 52/60 | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 2 | 3 | 8.85/6.0 | 0.167 | 0.650/0.6 | 103/100 | 125/110 | 112/108 |
| | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 3 | 8.85/6.0 | 0.167 | 0.650/0.6 | 109/105 | 125/125 | 119/114 |
| | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 2 | 3 | 8.85/6.0 | 0.167 | 0.650/0.6 | 117/112 | 125/125 | 127/122 |
| | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 3 | 8.85/6.0 | 0.167 | 0.650/0.6 | 116/122 | 125/125 | 127/112 |
| | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 3 | 8.85/6.0 | 0.167 | 0.650/0.6 | 129/129 | 150/150 | 119/119 |
| | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 2 | 3 | 8.85/6.0 | 0.167 | 0.650/0.6 | 139/138 | 150/150 | 127/127 |
| | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 3 | 8.85/6.0 | 0.167 | 0.650/0.6 | 181/167 | 200/175 | 167/181 |
| | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 3 | 8.85/6.0 | 0.167 | 0.650/0.6 | 189/174 | 200/175 | 174/188 |
| | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 2 | 3 | 8.85/6.0 | 0.167 | 0.650/0.6 | 198/183 | 200/200 | 182/196 |
| | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 3 | 8.85/6.0 | 0.167 | 0.650/0.6 | 103/100 | 125/110 | 112/108 |
| | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 3 | 8.85/6.0 | 0.167 | 0.650/0.6 | 109/105 | 125/125 | 119/114 |
| | | | | | | | | | | | | 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 51 | 60 | 55 |
| 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 54 | 60 | 58 | | | | | | | | | | | | |
| 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 57 | 60 | 62 | | | | | | | | | | | | |
| 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 62 | 70 | 57 | | | | | | | | | | | | |
| 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 65 | 70 | 60 | | | | | | | | | | | | |
| 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 69 | 70 | 64 | | | | | | | | | | | | |
| 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 84 | 90 | 91 | | | | | | | | | | | | |
| 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 88 | 90 | 94 | | | | | | | | | | | | |
| 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 92 | 100 | 98 | | | | | | | | | | | | |
| 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 114 | 125 | 126 | | | | | | | | | | | | |
| 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 118 | 125 | 129 | | | | | | | | | | | | |
| 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 122 | 125 | 133 | | | | | | | | | | | | |
| 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 143 | 150 | 146 | | | | | | | | | | | | |
| 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 146 | 150 | 150 | | | | | | | | | | | | |
| 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 153 | 160 | 157 | | | | | | | | | | | | |
| 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 174 | 181 | 177 | | | | | | | | | | | | |
| 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 177 | 181 | 181 | | | | | | | | | | | | |
| 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 181 | 181 | 181 | | | | | | | | | | | | |
| 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 198 | 200 | 196 | | | | | | | | | | | | |
| 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 207 | 200 | 202 | | | | | | | | | | | | |
| 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 219 | 215 | 213 | | | | | | | | | | | | |
| 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 225 | 220 | 223 | | | | | | | | | | | | |
| 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 231 | 225 | 229 | | | | | | | | | | | | |
| 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 239 | 230 | 233 | | | | | | | | | | | | |
| 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 242 | 235 | 236 | | | | | | | | | | | | |
| 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 248 | 240 | 243 | | | | | | | | | | | | |
| 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 255 | 245 | 250 | | | | | | | | | | | | |
| 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 261 | 250 | 255 | | | | | | | | | | | | |
| 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 267 | 255 | 260 | | | | | | | | | | | | |
| 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 273 | 260 | 265 | | | | | | | | | | | | |
| 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 284 | 270 | 273 | | | | | | | | | | | | |
| 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 288 | 275 | 281 | | | | | | | | | | | | |
| 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 292 | 280 | 285 | | | | | | | | | | | | |
| 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 301 | 285 | 290 | | | | | | | | | | | | |
| 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 307 | 290 | 294 | | | | | | | | | | | | |
| 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 313 | 295 | 300 | | | | | | | | | | | | |
| 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 324 | 300 | 304 | | | | | | | | | | | | |
| 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 328 | 305 | 310 | | | | | | | | | | | | |
| 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 334 | 310 | 315 | | | | | | | | | | | | |
| 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 345 | 315 | 320 | | | | | | | | | | | | |
| 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 349 | 320 | 325 | | | | | | | | | | | | |
| 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 355 | 325 | 330 | | | | | | | | | | | | |
| 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 366 | 330 | 333 | | | | | | | | | | | | |
| 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 370 | 335 | 336 | | | | | | | | | | | | |
| 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 376 | 340 | 341 | | | | | | | | | | | | |
| 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 387 | 345 | 346 | | | | | | | | | | | | |
| 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 391 | 350 | 351 | | | | | | | | | | | | |
| 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 397 | 355 | 356 | | | | | | | | | | | | |
| 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 408 | 360 | 361 | | | | | | | | | | | | |
| 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 412 | 365 | 366 | | | | | | | | | | | | |
| 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 418 | 370 | 371 | | | | | | | | | | | | |
| 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 429 | 375 | 376 | | | | | | | | | | | | |
| 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 433 | 380 | 381 | | | | | | | | | | | | |
| 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 439 | 385 | 386 | | | | | | | | | | | | |
| 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 450 | 390 | 391 | | | | | | | | | | | | |
| 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 454 | 395 | 396 | | | | | | | | | | | | |
| 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 460 | 400 | 401 | | | | | | | | | | | | |
| 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 471 | 405 | 406 | | | | | | | | | | | | |
| 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 475 | 410 | 411 | | | | | | | | | | | | |
| 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 481 | 415 | 416 | | | | | | | | | | | | |
| 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 492 | 420 | 421 | | | | | | | | | | | | |
| 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 496 | 425 | 426 | | | | | | | | | | | | |
| 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 502 | 430 | 431 | | | | | | | | | | | | |
| 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 513 | 435 | 436 | | | | | | | | | | | | |
| 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 517 | 440 | 441 | | | | | | | | | | | | |
| 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 523 | 445 | 446 | | | | | | | | | | | | |
| 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 534 | 450 | 451 | | | | | | | | | | | | |
| 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 538 | 455 | 456 | | | | | | | | | | | | |
| 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 544 | 460 | 461 | | | | | | | | | | | | |
| 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 555 | 465 | 466 | | | | | | | | | | | | |
| 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 559 | 470 | 471 | | | | | | | | | | | | |
| 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 565 | 475 | 476 | | | | | | | | | | | | |
| 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 576 | 480 | 481 | | | | | | | | | | | | |
| 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 580 | 485 | 486 | | | | | | | | | | | | |
| 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 586 | 490 | 491 | | | | | | | | | | | | |
| 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 597 | 495 | 496 | | | | | | | | | | | | |
| 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 601 | 500 | 501 | | | | | | | | | | | | |
| 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 607 | 505 | 506 | | | | | | | | | | | | |
| 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 618 | 510 | 511 | | | | | | | | | | | | |
| 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 622 | 515 | 516 | | | | | | | | | | | | |
| 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 628 | 520 | 521 | | | | | | | | | | | | |
| 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 639 | 525 | 526 | | | | | | | | | | | | |
| 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 643 | 530 | 531 | | | | | | | | | | | | |
| 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 649 | 535 | 536 | | | | | | | | | | | | |
| 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 660 | 540 | 541 | | | | | | | | | | | | |
| 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 664 | 545 | 546 | | | | | | | | | | | | |
| 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 670 | 550 | 551 | | | | | | | | | | | | |
| 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 681 | 555 | 556 | | | | | | | | | | | | |
| 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 685 | 560 | 561 | | | | | | | | | | | | |
| 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 691 | 565 | 566 | | | | | | | | | | | | |
| 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 702 | 570 | 571 | | | | | | | | | | | | |
| 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 706 | 575 | 576 | | | | | | | | | | | | |
| 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 712 | 580 | 581 | | | | | | | | | | | | |
| 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | | | | | | | | | | | | | | | | | | |

Electrical Data - 50PMI6 - 28 EnergyX with Optional Unit Powered Convenience Outlet (CONT)

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | OFM | | ELECTRIC HEAT † | | IFM | | ERV SUPPLY | | ERV EXHAUST | | ERV WHEEL | | POWER SUPPLY † | | DISCONNECT SIZE † | |
|-----------|-----------------|---------------|-----|------------|-----|-------|-------|-----|------|-----------------|----|-----|-----------|------------|----------|-------------|----------|-----------|-----|----------------|---------|-------------------|---------|
| | | Min | Max | RLA | LRA | No. 1 | No. 2 | Qty | Hp | FLA (ea) | kW | FLA | FLA | FLA (ea) | FLA (ea) | FLA (ea) | FLA | FLA | FLA | FLA | FLA | | FLA |
| 20 | 575-3-60 | 518 | 633 | 13 | 80 | 11 | 78 | 4 | 0.25 | 0.7 | - | 5 | 6.1 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 48 | 52 |
| | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 51 | 55 |
| | | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 53 | 58 |
| | | | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 53 | 52 |
| | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 57 | 55 |
| | | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 59 | 58 |
| | | | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 81 | 74 |
| | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 84 | 77 |
| | | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 87 | 80 |
| | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 102 | 107 |
| 24 | 460-3-60 | 187 | 253 | 40 | 239 | 38.5 | 225 | 6 | 0.25 | 1.5 | - | 5 | 6.1 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 104 | 110 |
| | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 104 | 111 |
| | | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 104 | 113 |
| | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 2 | 8.85/6.0 | 2 | 3 | 0.660/6 | 0.660/6 | 134/130 | 142/138 |
| | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 8.85/6.0 | 2 | 3 | 0.660/6 | 0.660/6 | 140/136 | 149/145 |
| | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 8.85/6.0 | 2 | 3 | 0.660/6 | 0.660/6 | 147/143 | 158/152 |
| | | | | | | | | | | | | 10 | 30.8/28 | 2 | 7.08/6.4 | 2 | 8.85/6.0 | 2 | 3 | 0.660/6 | 0.660/6 | 154/149 | 165/159 |
| | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 2 | 8.85/6.0 | 2 | 3 | 0.660/6 | 0.660/6 | 134/130 | 142/138 |
| | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 8.85/6.0 | 2 | 3 | 0.660/6 | 0.660/6 | 140/136 | 149/145 |
| | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 8.85/6.0 | 2 | 3 | 0.660/6 | 0.660/6 | 147/143 | 158/152 |
| 24 | 460-3-60 | 414 | 506 | 19.5 | 125 | 17.7 | 114 | 6 | 0.25 | 0.7 | - | 5 | 7.6 | 2 | 3.2 | 2 | 4 | 2 | 3 | 0.167 | 0.35 | 66 | 70 |
| | | | | | | | | | | | | 7.5 | 11 | 2 | 3.2 | 2 | 4 | 2 | 3 | 0.167 | 0.35 | 68 | 73 |
| | | | | | | | | | | | | 10 | 14 | 2 | 3.2 | 2 | 4 | 2 | 3 | 0.167 | 0.35 | 72 | 77 |
| | | | | | | | | | | | | 3.7 | 4.8 | 2 | 3.2 | 2 | 4 | 2 | 3 | 0.167 | 0.35 | 66 | 70 |
| | | | | | | | | | | | | 5 | 7.6 | 2 | 3.2 | 2 | 4 | 2 | 3 | 0.167 | 0.35 | 75 | 80 |
| | | | | | | | | | | | | 7.5 | 11 | 2 | 3.2 | 2 | 4 | 2 | 3 | 0.167 | 0.35 | 80 | 85 |
| | | | | | | | | | | | | 10 | 14 | 2 | 3.2 | 2 | 4 | 2 | 3 | 0.167 | 0.35 | 84 | 91 |
| | | | | | | | | | | | | 3.7 | 4.8 | 2 | 3.2 | 2 | 4 | 2 | 3 | 0.167 | 0.35 | 66 | 70 |
| | | | | | | | | | | | | 5 | 7.6 | 2 | 3.2 | 2 | 4 | 2 | 3 | 0.167 | 0.35 | 75 | 80 |
| | | | | | | | | | | | | 7.5 | 11 | 2 | 3.2 | 2 | 4 | 2 | 3 | 0.167 | 0.35 | 80 | 85 |
| 24 | 460-3-60 | 518 | 633 | 16.6 | 80 | 13 | 80 | 6 | 0.25 | 0.7 | - | 5 | 6.1 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 60 | 63 |
| | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 61 | 66 |
| | | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 61 | 66 |
| | | | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 56 | 60 |
| | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 59 | 63 |
| | | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 61 | 66 |
| | | | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 56 | 60 |
| | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 59 | 63 |
| | | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 61 | 66 |
| | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 61 | 66 |
| 24 | 460-3-60 | 187 | 253 | 40 | 239 | 38.5 | 225 | 6 | 0.25 | 1.5 | - | 5 | 6.1 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 102 | 107 |
| | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 104 | 110 |
| | | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 104 | 113 |
| | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 2 | 8.85/6.0 | 2 | 3 | 0.660/6 | 0.660/6 | 134/130 | 142/138 |
| | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 8.85/6.0 | 2 | 3 | 0.660/6 | 0.660/6 | 140/136 | 149/145 |
| | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 8.85/6.0 | 2 | 3 | 0.660/6 | 0.660/6 | 147/143 | 158/152 |
| | | | | | | | | | | | | 10 | 30.8/28 | 2 | 7.08/6.4 | 2 | 8.85/6.0 | 2 | 3 | 0.660/6 | 0.660/6 | 154/149 | 165/159 |
| | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 2 | 8.85/6.0 | 2 | 3 | 0.660/6 | 0.660/6 | 134/130 | 142/138 |
| | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 8.85/6.0 | 2 | 3 | 0.660/6 | 0.660/6 | 140/136 | 149/145 |
| | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 8.85/6.0 | 2 | 3 | 0.660/6 | 0.660/6 | 147/143 | 158/152 |

See General Notes for Electrical Data Tables on page 61.



Electrical Data - 50PM16 - 28 EnergyX with Optional Unit Powered Convenience Outlet (CONT)

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | | | COMPRESSOR | | | | | | ELECTRIC HEAT | | IFM | | ERV SUPPLY | | | ERV EXHAUST | | | ERV WHEEL | | POWER SUPPLY | | DISCONNECT SIZE |
|-----------|-----------------|---------------|-----|-------|-----|------------|-----|----|-----|----|----------|---------------|----------|-----|----------|------------|----------|----|-------------|----|-----|-----------|---------|--------------|-----|-----------------|
| | | Min | Max | No. 1 | | No. 2 | | KW | FLA | Hp | FLA (ea) | Qty | FLA (ea) | Hp | FLA (ea) | Qty | FLA (ea) | Hp | FLA (ea) | Hp | FLA | FLA | MCA | MOCP | | |
| | | | | RLA | LRA | RLA | LRA | | | | | | | | | | | | | | | | | | FLA | |
| 16 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | NA | NA | NA | NA | 56/75 | 156/180 | NA | NA | NA | NA | NA | NA | NA | NA | 156/180 | 175/200 | 179/207 | FLA | |
| 20 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | NA | NA | NA | NA | 56/75 | 156/180 | NA | NA | NA | NA | NA | NA | NA | NA | 156/180 | 175/200 | 179/207 | FLA | |
| 24 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | NA | NA | NA | NA | 56/75 | 156/180 | NA | NA | NA | NA | NA | NA | NA | NA | 156/180 | 175/200 | 179/207 | FLA | |
| 28 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | NA | NA | NA | NA | 56/75 | 156/180 | NA | NA | NA | NA | NA | NA | NA | NA | 156/180 | 175/200 | 179/207 | FLA | |

† Electric Heat Branch Circuit for 50PM16—28 unit 208/230/240v with 75—kW Electric Heat

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | | | COMPRESSOR | | | | | | ELECTRIC HEAT | | IFM | | ERV SUPPLY | | | ERV EXHAUST | | | ERV WHEEL | | POWER SUPPLY | | DISCONNECT SIZE | |
|-----------|-----------------|---------------|-----|-------|-----|------------|-----|----|------|-----|----------|---------------|----------|-----------|----------|------------|----------|----------|-------------|----|----------|-----------|----------|--------------|---------|-----------------|-----|
| | | Min | Max | No. 1 | | No. 2 | | KW | FLA | Hp | FLA (ea) | Qty | FLA (ea) | Hp | FLA (ea) | Qty | FLA (ea) | Hp | FLA (ea) | Hp | FLA | FLA | MCA | MOCP | | | |
| | | | | RLA | LRA | RLA | LRA | | | | | | | | | | | | | | | | | | FLA | | FLA |
| 16 | 208/230-3-60 | 187 | 253 | 25 | 164 | 25 | 164 | 4 | 0.25 | 1.5 | 56/75 | 156/180 | 3.7 | 10.9/9.6 | 2 | 7.08/6.4 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 207/227 | 225/250 | 227/250 | FLA |
| 20 | 208/230-3-60 | 187 | 253 | 33.5 | 225 | 29.6 | 164 | 4 | 0.25 | 1.5 | 56/75 | 156/180 | 7.5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 204/243 | 225/250 | 234/257 | FLA |
| | | | | | | | | | | | | | 3.7 | 10.9/9.6 | 2 | 7.08/6.4 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 207/227 | 225/250 | 227/250 | |
| 24 | 208/230-3-60 | 187 | 253 | 40 | 239 | 33.5 | 225 | 6 | 0.25 | 1.5 | 56/75 | 156/180 | 7.5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 224/243 | 225/250 | 234/257 | FLA |
| | | | | | | | | | | | | | 3.7 | 10.9/9.6 | 2 | 7.08/6.4 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 207/227 | 225/250 | 227/250 | |
| 28 | 208/230-3-60 | 187 | 253 | 48.1 | 245 | 48.1 | 245 | 6 | 0.25 | 1.5 | 56/75 | 156/180 | 7.5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 224/243 | 225/250 | 234/257 | FLA |
| | | | | | | | | | | | | | 10 | 30.8/28 | 2 | 7.08/6.4 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 233/250 | 250/250 | 250/271 | |

LEGEND

- FLA — Full Load Amps
- IFM — Indoor (Evaporator) Fan Motor
- LRA — Locked Rotor Amps
- MCA — Minimum Circuit Amps
- MOCP — Maximum Overcurrent Protection
- NEC — National Electrical Code
- OFM — Outdoor (Condenser) Fan Motor
- RLA — Rated Load Amps

† Electric Heat Branch Circuit for 50PM16—28, 208/230/240v EnergyX unit with Optional Powered Conv Outlet and 75—kW Electric Heat
See General Notes for Electrical Data Tables on page 61.



Electrical Data - 50PM16 - 28 Energy X with Optional HACR Breaker

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | OFM | | ELECTRIC HEAT † | | IPM | | ERV SUPPLY | | ERV EXHAUST | | ERV WHEEL | | POWER SUPPLY † | | DISCONNECT SIZE † | | |
|-----------|-----------------|---------------|----------|------------|------|----------|-------|-----------|---------|-----------------|-----|-----|-----|------------|--------------|-------------|----------|-----------|----------|----------------|-------|-------------------|---------|---------|
| | | Min | Max | RLA | LRA | No. 1 | RLA | LRA | No. 2 | RLA | LRA | Qty | Hp | FLA (ea) | FLA (ea) | Qty | Hp | FLA (ea) | FLA (ea) | Hp | FLA | | MCA | MOCP |
| 16 | 208/230-3-60 | 187 | 253 | 25 | 164 | 25 | 164 | 164 | 4 | 0.25 | 1.5 | - | - | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.660/0.6 | 98/98 | 100/100 |
| | | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.660/0.6 | 104/104 | 125/125 |
| | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.660/0.6 | 112/112 | 125/125 |
| | | | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.660/0.6 | 116/116 | 125/125 |
| | | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.660/0.6 | 123/123 | 125/125 |
| | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.660/0.6 | 131/131 | 150/150 |
| | | | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.660/0.6 | 175/175 | 200/200 |
| | | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.660/0.6 | 183/183 | 200/200 |
| | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.660/0.6 | 192/192 | 200/200 |
| | | | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.660/0.6 | 36/98 | 100/100 |
| | | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.660/0.6 | 104/104 | 125/125 |
| | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.660/0.6 | 112/112 | 125/125 |
| | | | | | | | | | | | | | | 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 48 | 60 |
| | | | | | | | | | | | | | | 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 51 | 60 |
| | | | | | | | | | | | | | | 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 54 | 60 |
| | | | | | | | | | | | | | | 20 | 208/230-3-60 | 187 | 253 | 25 | 164 | 29.6 | 225 | 164 | 4 | 0.25 |
| 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.660/0.6 | 120/120 | 150/150 | | | | | | | | | | | | | | |
| 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.660/0.6 | 127/127 | 150/150 | | | | | | | | | | | | | | |
| 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.660/0.6 | 134/134 | 150/150 | | | | | | | | | | | | | | |
| 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.660/0.6 | 116/116 | 125/125 | | | | | | | | | | | | | | |
| 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.660/0.6 | 123/123 | 150/150 | | | | | | | | | | | | | | |
| 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.660/0.6 | 131/131 | 150/150 | | | | | | | | | | | | | | |
| 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.660/0.6 | 137/131 | 150/150 | | | | | | | | | | | | | | |
| 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.660/0.6 | 137/131 | 150/150 | | | | | | | | | | | | | | |
| 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.660/0.6 | 150/150 | 200/200 | | | | | | | | | | | | | | |
| 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.660/0.6 | 157/175 | 200/200 | | | | | | | | | | | | | | |
| 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.660/0.6 | 168/182 | 200/200 | | | | | | | | | | | | | | |
| 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 56 | 70 | | | | | | | | | | | | | | |
| 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 59 | 70 | | | | | | | | | | | | | | |
| 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 62 | 70 | | | | | | | | | | | | | | |
| 460-3-60 | 414 | 506 | 17.7 | 114 | 14.8 | 114 | 114 | 4 | 0.25 | 0.7 | - | - | 3.7 | | | | | | | | | | | |
| | | | | | | | | | | | | | 5 | 14 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 65 | 80 | |
| | | | | | | | | | | | | | 7.5 | 21 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 70 | 80 | |
| | | | | | | | | | | | | | 3.7 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 61 | 70 | |
| | | | | | | | | | | | | | 5 | 14 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 66 | 70 | |
| | | | | | | | | | | | | | 7.5 | 21 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 69 | 80 | |
| | | | | | | | | | | | | | 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 80 | 90 | |
| | | | | | | | | | | | | | 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 84 | 90 | |
| | | | | | | | | | | | | | 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 88 | 90 | |
| | | | | | | | | | | | | | 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 92 | 100 | |
| | | | | | | | | | | | | | 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 92 | 100 | |
| | | | | | | | | | | | | | 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 110 | 125 | |
| | | | | | | | | | | | | | 3.7 | 4.8 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 114 | 125 | |
| | | | | | | | | | | | | | 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 118 | 125 | |
| | | | | | | | | | | | | | 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 122 | 125 | |

See General Notes for Electrical Data Tables on page 61.

Electrical Data - 50PMI6 - 28 EnergyX with Optional HACR Breaker (CONT)

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | OFM | | ELECTRIC HEAT † | | IFM | | ERV SUPPLY | | ERV EXHAUST | | ERV WHEEL | | POWER SUPPLY † | | DISCONNECT SIZE † | | | | | | | |
|-----------|-----------------|---------------|-----|------------|-----|-------|-------|-----|------|-----------------|---------|---------|----|------------|-----|-------------|----------|-----------|-------|----------------|---------|-------------------|---------|---------|-----|----------|---------|---------|---------|
| | | Min | Max | RLA | LRA | No. 1 | No. 2 | Qty | Hp | FLA (ea) | kW | FLA | Hp | FLA (ea) | Qty | Hp | FLA (ea) | Hp | FLA | MCA | MOCP | FLA | SIZE † | | | | | | |
| 20 | 575-3-60 | 518 | 633 | 13 | 80 | 11 | 78 | 4 | 0.25 | 0.7 | 48.3 | 46 | 9 | 6.1 | 2 | 2.4 | 3 | 3.3 | 0.167 | 77 | 80 | 83 | 90 | 74 | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 3.3 | 45 | 50 | 49 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 7.5 | 3.3 | 48 | 60 | 54 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 10 | 3.3 | 50 | 60 | 50 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 3.3 | 49 | 50 | 49 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 7.5 | 3.3 | 53 | 60 | 52 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 10 | 3.3 | 55 | 60 | 54 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 3.3 | 77 | 80 | 71 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 7.5 | 3.3 | 80 | 90 | 74 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 10 | 3.3 | 83 | 90 | 76 |
| 24 | 460-3-60 | 187 | 253 | 40 | 239 | 33.5 | 225 | 6 | 0.25 | 1.5 | 3860 | 104/120 | 11 | 10.6/96 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 149/149 | 175/175 | 200/200 | 168/162 | 160/154 | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 3.7 | 8.85/8.0 | 175/175 | 200/200 | 167/154 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 8.85/8.0 | 183/163 | 200/200 | 177/190 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 7.5 | 8.85/8.0 | 192/192 | 200/200 | 184/197 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 10 | 8.85/8.0 | 200/200 | 225/225 | 196/197 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 3.7 | 8.85/8.0 | 129/129 | 150/150 | 136/132 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 8.85/8.0 | 135/135 | 150/150 | 143/139 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 7.5 | 8.85/8.0 | 142/142 | 175/175 | 152/147 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 10 | 8.85/8.0 | 149/149 | 175/175 | 160/154 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 3.7 | 8.85/8.0 | 135/135 | 150/150 | 143/139 |
| 24 | 460-3-60 | 414 | 506 | 19.5 | 125 | 17.7 | 114 | 6 | 0.25 | 0.7 | 58/75 † | 156/180 | 11 | 10.6/96 | 2 | 3.2 | 3 | 4 | 0.167 | 149/149 | 175/175 | 200/200 | 168/162 | 160/154 | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 3.7 | 4 | 63 | 80 | 66 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 4 | 65 | 80 | 70 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 7.5 | 4 | 69 | 80 | 74 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 10 | 4 | 72 | 90 | 77 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 3.7 | 4 | 63 | 80 | 66 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 4 | 65 | 80 | 70 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 7.5 | 4 | 69 | 80 | 74 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 10 | 4 | 72 | 90 | 77 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 3.7 | 4 | 63 | 80 | 66 |
| 24 | 575-3-60 | 518 | 633 | 16.6 | 80 | 13 | 80 | 6 | 0.25 | 0.7 | 24.8 | 46 | 9 | 6.1 | 2 | 2.4 | 3 | 3.3 | 0.167 | 77 | 80 | 83 | 90 | 74 | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 3.3 | 53 | 60 | 57 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 7.5 | 3.3 | 56 | 70 | 62 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 10 | 3.3 | 58 | 70 | 62 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 3.3 | 53 | 60 | 57 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 7.5 | 3.3 | 56 | 70 | 62 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 10 | 3.3 | 58 | 70 | 62 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 3.3 | 77 | 80 | 71 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 7.5 | 3.3 | 80 | 90 | 74 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 10 | 3.3 | 83 | 90 | 76 |
| 24 | 575-3-60 | 518 | 633 | 16.6 | 80 | 13 | 80 | 6 | 0.25 | 0.7 | 78 | 75 | 9 | 6.1 | 2 | 2.4 | 3 | 3.3 | 0.167 | 77 | 80 | 83 | 90 | 104 | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 3.3 | 53 | 60 | 57 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 7.5 | 3.3 | 56 | 70 | 62 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 10 | 3.3 | 58 | 70 | 62 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 3.3 | 53 | 60 | 57 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 7.5 | 3.3 | 56 | 70 | 62 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 10 | 3.3 | 58 | 70 | 62 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 3.3 | 77 | 80 | 71 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 7.5 | 3.3 | 80 | 90 | 74 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 10 | 3.3 | 83 | 90 | 76 |

See General Notes for Electrical Data Tables on page 61.



Electrical Data - 50PM16 - 28 EnergyX with Optional HACR Breaker (CONT)

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | ELECTRIC HEAT † | | IFM | | ERV SUPPLY | | ERV EXHAUST | | ERV WHEEL | | POWER SUPPLY † | | DISCONNECT SIZE † | | | |
|-----------|-----------------|---------------|---------|------------|-----------|-----------|-----------|-----------------|-------|----------|----------|------------|-----------|-------------|----------|-----------|-----|----------------|-------|-------------------|---------|---------|---------|
| | | Min | Max | No. 1 RLA | No. 1 LRA | No. 2 RLA | No. 2 LRA | Qty | Hp | FLA | FLA (ea) | Qty | Hp | FLA (ea) | Qty | Hp | FLA | MCA | MOCPP | | | | |
| 28 | 208/230-3-60 | 187 | 253 | 48.1 | 245 | 48.1 | 245 | 6 | 0.25 | 1.5 | 19/25 | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 159/159 | 200/200 | 169/165 |
| | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 167/167 | 200/200 | 178/173 |
| | | | | | | | | | | | | 10 | 30.8/28 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 173/173 | 200/200 | 186/180 |
| | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 159/159 | 200/200 | 169/165 | | | | | | | | | | |
| | | 10 | 30.8/28 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 167/167 | 200/200 | 178/173 | | | | | | | | | | |
| | | 10 | 30.8/28 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 187/183 | 200/200 | 196/182 | | | | | | | | | | |
| | 460-3-60 | 518 | 633 | 18 | 100 | 18 | 100 | 6 | 0.25 | 0.7 | 38/50 | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 159/159 | 200/200 | 169/165 |
| | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 167/167 | 200/200 | 178/173 |
| | | | | | | | | | | | | 10 | 30.8/28 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 173/173 | 200/200 | 186/180 |
| | | | | | | | | | | | | 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 74 | 90 | 79 |
| | | | | | | | | | | | | 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 77 | 90 | 86 |
| | | | | | | | | | | | | 10 | 14 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 74 | 90 | 79 |
| 575-3-60 | 518 | 633 | 18 | 100 | 18 | 100 | 6 | 0.25 | 0.7 | 56/75 † | 5 | 7.6 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 74 | 90 | 79 | |
| | | | | | | | | | | | 7.5 | 11 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 77 | 90 | 86 | |
| | | | | | | | | | | | 10 | 14 | 2 | 3.2 | 2 | 3 | 4 | 0.167 | 0.35 | 74 | 90 | 79 | |
| | | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 2 | 3 | 3.3 | 0.167 | 0.3 | 60 | 70 | 64 | |
| | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 2 | 3 | 3.3 | 0.167 | 0.3 | 63 | 80 | 67 | |
| | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 2 | 3 | 3.3 | 0.167 | 0.3 | 65 | 80 | 70 | |
| 75 | 75 | 75 | 9 | 2.4 | 2.4 | 2.4 | 2 | 3.3 | 3.3 | 24.8 | 5 | 6.1 | 2 | 2.4 | 2 | 3 | 3.3 | 0.167 | 0.3 | 60 | 70 | 64 | |
| | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 2 | 3 | 3.3 | 0.167 | 0.3 | 63 | 80 | 67 | |
| | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 2 | 3 | 3.3 | 0.167 | 0.3 | 65 | 80 | 70 | |
| | | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 2 | 3 | 3.3 | 0.167 | 0.3 | 63 | 80 | 67 | |
| | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 2 | 3 | 3.3 | 0.167 | 0.3 | 65 | 80 | 70 | |
| | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 2 | 3 | 3.3 | 0.167 | 0.3 | 63 | 80 | 67 | |
| 78 | 78 | 78 | 9 | 2.4 | 2.4 | 2.4 | 2 | 3.3 | 3.3 | 48.3 | 5 | 6.1 | 2 | 2.4 | 2 | 3 | 3.3 | 0.167 | 0.3 | 60 | 70 | 64 | |
| | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 2 | 3 | 3.3 | 0.167 | 0.3 | 63 | 80 | 67 | |
| | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 2 | 3 | 3.3 | 0.167 | 0.3 | 65 | 80 | 70 | |
| | | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 2 | 3 | 3.3 | 0.167 | 0.3 | 63 | 80 | 67 | |
| | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 2 | 3 | 3.3 | 0.167 | 0.3 | 65 | 80 | 70 | |
| | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 2 | 3 | 3.3 | 0.167 | 0.3 | 63 | 80 | 67 | |

LEGEND

- FLA - Full Load Amps
- IFM - Indoor (Evaporator) Fan Motor
- LRA - Locked Rotor Amps
- MCA - Minimum Circuit Amps
- MOCPP - Maximum Overcurrent Protection
- NEC - National Electrical Code
- OFM - Outdoor (Condenser) Fan Motor
- RLA - Rated Load Amps

* Fuse or circuit breaker.

† 208/230 v 75-kW Electric Heat units must use dual - point wiring. The main table lists the branch circuit values for the refrigeration part of the system. See separate tables for the branch circuit values for the electric heat and values for a feeder circuit for both branch circuits.

See General Notes for Electrical Data Tables on page 61.

Electrical Data - 50PM16 - 28 Energy X with Optional HACR Breaker

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | | | ELECTRIC HEAT | | IFM | | ERV SUPPLY | | ERV EXHAUST | | | ERV WHEEL | | POWER SUPPLY | | DISCONNECT SIZE | | | |
|-----------|-----------------|---------------|-----|------------|-----|-----|-------|-----|-----|---------------|---------|-----|-----|------------|----------|-------------|----|----------|-----------|----------|--------------|---------|-----------------|---------|---------|-----|
| | | Min | Max | No. 1 | | | No. 2 | | | kW | FLA | Hp | FLA | Hp | FLA (ea) | Qty | Hp | FLA (ea) | Hp | FLA (ea) | FLA | Hp | MCA | MOC | FLA | FLA |
| | | | | RLA | LRA | RLA | LRA | FLA | FLA | | | | | | | | | | | | | | | | | |
| 16 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | NA | NA | 56/75 | 156/180 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 180/180 | 200/200 | 179/207 | 179/207 | |
| 20 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | NA | NA | 56/75 | 156/180 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 180/180 | 200/200 | 179/207 | 179/207 | |
| 24 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | NA | NA | 56/75 | 156/180 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 180/180 | 200/200 | 179/207 | 179/207 | |
| 28 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | NA | NA | 56/75 | 156/180 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 180/180 | 200/200 | 179/207 | 179/207 | |

† Electric Heat Branch Circuit for 50PM16 – 28 unit 208/230/240v with 75 – kW Electric Heat

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | | | ELECTRIC HEAT | | IFM | | ERV SUPPLY | | ERV EXHAUST | | | ERV WHEEL | | POWER SUPPLY | | DISCONNECT SIZE | | | |
|-----------|-----------------|---------------|-----|------------|-----|------|-------|-----|-------|---------------|-----|-----------|-----|------------|----------|-------------|----------|----------|-----------|----------|--------------|---------|-----------------|---------|---------|-----|
| | | Min | Max | No. 1 | | | No. 2 | | | kW | FLA | Hp | FLA | Hp | FLA (ea) | Qty | Hp | FLA (ea) | Hp | FLA (ea) | FLA | Hp | MCA | MOC | FLA | FLA |
| | | | | RLA | LRA | RLA | LRA | FLA | FLA | | | | | | | | | | | | | | | | | |
| 16 | 208/230-3-60 | 187 | 253 | 25 | 164 | 25 | 164 | 1.5 | 56/75 | 156/180 | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 0.66/0.6 | 0.167 | 221/221 | 225/225 | 221/244 | 221/244 | |
| 20 | 208/230-3-60 | 187 | 253 | 33.5 | 225 | 29.6 | 164 | 1.5 | 56/75 | 156/180 | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 0.66/0.6 | 0.167 | 228/228 | 236/236 | 236/259 | 236/259 | |
| 24 | 208/230-3-60 | 187 | 253 | 40 | 239 | 33.5 | 225 | 1.5 | 56/75 | 156/180 | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 0.66/0.6 | 0.167 | 221/221 | 225/225 | 221/244 | 221/244 | |
| 28 | 208/230-3-60 | 187 | 253 | 48.1 | 245 | 48.1 | 245 | 1.5 | 56/75 | 156/180 | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 0.66/0.6 | 0.167 | 236/236 | 250/250 | 236/259 | 236/259 | |

LEGEND

- FLA – Full Load Amps
- IFM – Indoor (Evaporator) Fan Motor
- LRA – Locked Rotor Amps
- MCA – Minimum Circuit Amps
- MOC – Maximum Overcurrent Protection
- NEC – National Electrical Code
- OFM – Outdoor (Condenser) Fan Motor
- RLA – Rated Load Amps

† Electric Heat Branch Circuit for 50PM16 – 28, 208/230/240v EnergyX unit with Optional HACR Breaker unit and 75 – kW Electric Heat
See General Notes for Electrical Data Tables on page 61.



Electrical Data - 50PM16 - 28 EnergyX with Optional Powered Conv Outlet and HACR Breaker

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | ELECTRIC HEAT † | | IFM | | ERV SUPPLY | | ERV EXHAUST | | ERV WHEEL | | POWER SUPPLY † | | DISCONNECT SIZE † | | | | | |
|-----------|-----------------|---------------|-----|------------|------|------|-------|-----------------|------|------|-------|------------|----------|-------------|-----------|-----------|----------|----------------|----------|-------------------|----------|----------|---------|---------|---------|
| | | Min | Max | No. 1 | RLA | LRA | No. 2 | RLA | LRA | Qty | Hp | FLA (ea) | FLA (ea) | Qty | Hp | FLA (ea) | FLA (ea) | FLA | MCA | | MOC | | | | |
| 16 | 208/230-3-60 | 187 | 253 | 25 | 164 | 12.8 | 100 | 4 | 0.25 | 1.5 | 19/25 | 52/60 | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 103/103 | 125/125 | 112/108 | |
| | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 109/109 | 125/125 | 119/114 | |
| | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 117/117 | 125/125 | 127/122 | |
| | | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 122/122 | 125/125 | 112/112 | |
| | 460-3-60 | 414 | 506 | 100 | 12.8 | 100 | 4 | 0.25 | 0.7 | 50 | 60 | 38/50 | 104/120 | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 139/138 | 150/150 | 119/119 |
| | | | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 147/147 | 160/160 | 127/127 |
| | | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 181/181 | 200/200 | 174/188 |
| | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 198/198 | 200/200 | 182/196 |
| | 575-3-60 | 518 | 633 | 78 | 9.6 | 78 | 9.6 | 4 | 0.7 | 24.8 | 24 | 56/75 | 156/180 | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 103/103 | 125/125 | 112/108 |
| | | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 109/109 | 125/125 | 119/114 |
| | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 117/117 | 125/125 | 127/122 |
| | | | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 122/122 | 125/125 | 112/108 |
| | 208/230-3-60 | 187 | 253 | 33.5 | 225 | 164 | 29.6 | 4 | 0.25 | 78 | 75 | 38/50 | 104/120 | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 139/138 | 150/150 | 119/119 |
| | | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 147/147 | 160/160 | 127/127 |
| | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 181/181 | 200/200 | 174/188 |
| | | | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 198/198 | 200/200 | 182/196 |
| 460-3-60 | 414 | 506 | 114 | 14.8 | 100 | 14.8 | 4 | 0.7 | 50 | 60 | 56/75 | 156/180 | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 103/103 | 125/125 | 112/108 | |
| | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 109/109 | 125/125 | 119/114 | |
| | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 117/117 | 125/125 | 127/122 | |
| | | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 8.85/8.0 | 122/122 | 125/125 | 112/108 | |

See General Notes for Electrical Data Tables on page 61.

Electrical Data - 50PM16 - 28 Energy X with Optional Powered Conv Outlet and HACR Breaker (CONT)

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | | | ELECTRIC HEAT † | | IFM | | ERV SUPPLY | | ERV EXHAUST | | ERV WHEEL | | POWER SUPPLY † | | DISCONNECT SIZE † | | |
|-----------|-----------------|---------------|-----|------------|-----|------|-----|-----|------|-----------------|-------|---------|-----|------------|-----|-------------|-----|-----------|-----|----------------|-------|-------------------|---------|---------|
| | | Min | Max | FLA | LRA | FLA | LRA | FLA | LRA | FLA | LRA | FLA | LRA | FLA | LRA | FLA | LRA | FLA | LRA | FLA | LRA | | MCA | MOC |
| 20 | 575-3-60 | | 633 | 13 | 80 | 11 | 78 | 4 | 0.25 | 0.7 | 24.8 | 24 | 5 | 6.1 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 48 | 60 |
| | | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 51 | 60 |
| | | | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 53 | 60 |
| | | | | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 53 | 60 |
| | | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 57 | 60 |
| | | | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 59 | 60 |
| | | | | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 81 | 90 |
| | | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 84 | 90 |
| | | | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 87 | 90 |
| | | | | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 88 | 100 |
| 24 | 460-3-60 | | 506 | 19.5 | 125 | 17.7 | 114 | 6 | 0.25 | 0.7 | 56/75 | 30 | 5 | 7.5 | 2 | 3.2 | 2 | 4 | 2 | 3 | 0.167 | 0.35 | 66 | 80 |
| | | | | | | | | | | | | | 7.5 | 11 | 2 | 3.2 | 2 | 4 | 2 | 3 | 0.167 | 0.35 | 68 | 80 |
| | | | | | | | | | | | | | 10 | 14 | 2 | 3.2 | 2 | 4 | 2 | 3 | 0.167 | 0.35 | 72 | 90 |
| | | | | | | | | | | | | | 5 | 7.6 | 2 | 3.2 | 2 | 4 | 2 | 3 | 0.167 | 0.35 | 72 | 90 |
| | | | | | | | | | | | | | 7.5 | 11 | 2 | 3.2 | 2 | 4 | 2 | 3 | 0.167 | 0.35 | 75 | 90 |
| | | | | | | | | | | | | | 10 | 14 | 2 | 3.2 | 2 | 4 | 2 | 3 | 0.167 | 0.35 | 75 | 90 |
| | | | | | | | | | | | | | 5 | 7.6 | 2 | 3.2 | 2 | 4 | 2 | 3 | 0.167 | 0.35 | 77 | 90 |
| | | | | | | | | | | | | | 7.5 | 11 | 2 | 3.2 | 2 | 4 | 2 | 3 | 0.167 | 0.35 | 80 | 80 |
| | | | | | | | | | | | | | 10 | 14 | 2 | 3.2 | 2 | 4 | 2 | 3 | 0.167 | 0.35 | 84 | 90 |
| | | | | | | | | | | | | | 5 | 7.6 | 2 | 3.2 | 2 | 4 | 2 | 3 | 0.167 | 0.35 | 84 | 90 |
| 20 | 575-3-60 | | 633 | 16.6 | 80 | 13 | 80 | 6 | 0.25 | 0.7 | 24.8 | 24 | 5 | 6.1 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 56 | 70 |
| | | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 59 | 70 |
| | | | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 61 | 70 |
| | | | | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 56 | 70 |
| | | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 59 | 70 |
| | | | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 61 | 70 |
| | | | | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 61 | 70 |
| | | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 64 | 90 |
| | | | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 67 | 90 |
| | | | | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 2 | 3.3 | 2 | 3 | 0.167 | 0.3 | 67 | 90 |
| 24 | 208/230-3-60 | | 253 | 40 | 239 | 33.5 | 225 | 6 | 0.25 | 1.5 | 38/50 | 104/120 | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 0.167 | 0.66/0.6 | 181/181 | 200/200 |
| | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 0.167 | 0.66/0.6 | 189/189 | 200/200 |
| | | | | | | | | | | | | | 10 | 30.8/28 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 0.167 | 0.66/0.6 | 198/198 | 200/200 |
| | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 0.167 | 0.66/0.6 | 181/181 | 200/200 |
| | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 0.167 | 0.66/0.6 | 189/189 | 200/200 |
| | | | | | | | | | | | | | 10 | 30.8/28 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 0.167 | 0.66/0.6 | 198/198 | 200/200 |
| | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 0.167 | 0.66/0.6 | 181/181 | 200/200 |
| | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 0.167 | 0.66/0.6 | 189/189 | 200/200 |
| | | | | | | | | | | | | | 10 | 30.8/28 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 0.167 | 0.66/0.6 | 198/198 | 200/200 |
| | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 8.85/8.0 | 2 | 3 | 0.167 | 0.66/0.6 | 181/181 | 200/200 |

See General Notes for Electrical Data Tables on page 61.



50PM

Electrical Data - 50PM16 - 28 Energy X with Optional Powered Conv Outlet and HACR Breaker (CONT)

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | | | ELECTRIC HEAT | | IFM | | ERV SUPPLY | | ERV EXHAUST | | | ERV WHEEL | | POWER SUPPLY | | DISCONNECT SIZE |
|-----------|-----------------|---------------|-----|------------|-----|-------|-----|----------|----|---------------|----|----------|-----|------------|----------|-------------|----|----------|-----------|---------|--------------|---------|-----------------|
| | | Min | Max | No. 1 | | No. 2 | | FLA (ea) | KW | FLA | Hp | FLA (ea) | Qty | Hp | FLA (ea) | Qty | Hp | FLA (ea) | Hp | FLA | MCA | MOCP | |
| | | | | RLA | LRA | RLA | LRA | | | | | | | | | | | | | | | | |
| 16 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 180/180 | 200/200 | 179/207 | |
| 20 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 180/180 | 200/200 | 179/207 | |
| 24 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 180/180 | 200/200 | 179/207 | |
| 28 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 180/180 | 200/200 | 179/207 | |

† Electric Heat Branch Circuit for 50PM16 – 28 unit 208/230/240v with 75 – kW Electric Heat

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | | | ELECTRIC HEAT | | IFM | | ERV SUPPLY | | ERV EXHAUST | | | ERV WHEEL | | POWER SUPPLY | | DISCONNECT SIZE | | | |
|-----------|-----------------|---------------|-----|------------|-----|-------|-----|----------|-------|---------------|-----|-----------|-----|------------|----------|-------------|----|----------|-----------|----|--------------|-------|-----------------|---------|---------|---------|
| | | Min | Max | No. 1 | | No. 2 | | FLA (ea) | KW | FLA | Hp | FLA (ea) | Qty | Hp | FLA (ea) | Qty | Hp | FLA (ea) | Qty | Hp | FLA | MCA | | MOCP | | |
| | | | | RLA | LRA | RLA | LRA | | | | | | | | | | | | | | | | | | FLA | FLA |
| 16 | 208/230-3-60 | 187 | 253 | 25 | 164 | 25 | 164 | 1.5 | 56/75 | 156/180 | 3.7 | 10.6/15.2 | 2 | 7.08/6.4 | 2 | 7.08/6.4 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 227/227 | 250/250 | 227/250 |
| 20 | 208/230-3-60 | 187 | 253 | 33.5 | 225 | 29.6 | 164 | 1.5 | 56/75 | 156/180 | 7.5 | 24.2/22.2 | 2 | 7.08/6.4 | 2 | 7.08/6.4 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 227/227 | 250/250 | 227/250 |
| 24 | 208/230-3-60 | 187 | 253 | 40 | 239 | 33.5 | 225 | 1.5 | 56/75 | 156/180 | 10 | 30.8/28 | 2 | 7.08/6.4 | 2 | 7.08/6.4 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 250/250 | 300/250 | 250/271 |
| 28 | 208/230-3-60 | 187 | 253 | 48.1 | 245 | 48.1 | 245 | 1.5 | 56/75 | 156/180 | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 7.08/6.4 | 2 | 7.08/6.4 | 2 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 243/243 | 250/250 | 242/265 |

LEGEND

- FLA – Full Load Amps
- IFM – Indoor (Evaporator) Fan Motor
- LRA – Locked Rotor Amps
- MCA – Minimum Circuit Amps
- MOCP – Maximum Overcurrent Protection
- NEC – National Electrical Code
- OFM – Outdoor (Condenser) Fan Motor
- RLA – Rated Load Amps

† Electric Heat Branch Circuit for 50PM16 – 28, 208/230/240v EnergyX unit with Optional Powered Conv Outlet and HACR Breaker unit and 75 – kW Electric Heat
See General Notes for Electrical Data Tables on page 61.

50PM

Electrical Data - 50PM16 - 28 EnergyX Unit Without Optional Unit Powered Convenience Outlet, with Economizer

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | OFIM | | ELECTRIC HEAT † | | IFIM | | ERV SUPPLY | | ERV EXHAUST | | ERV WHEEL | | POWER SUPPLY † | | DISCONNECT SIZE † | | | | |
|--------------|-----------------|---------------|------|------------|-----|------|----------|-------|-----------------|---------|----------|---------|------------|-----|-------------|-----|-----------|----------|----------------|----------|-------------------|----------|---------|---------|---------|
| | | Min | Max | RLA | RLA | LRA | No. 1 | No. 2 | Qty | Hp | FLA (ea) | kW | FLA | Hp | FLA (ea) | Qty | Hp | FLA (ea) | FLA | MCA | | MOCp | | | |
| 16 | 208/230-3-60 | 187 | 253 | 25 | 164 | 25 | 164 | 164 | 4 | 0.25 | 1.5 | - | 52/60 | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 107/103 | 125/125 | 116/111 |
| | | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 113/108 | 125/125 | 123/118 |
| | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 121/115 | 125/125 | 132/125 |
| | | | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 121/126 | 125/150 | 116/116 |
| | | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 129/133 | 150/150 | 123/122 |
| | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 139/141 | 150/150 | 132/130 |
| | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 186/171 | 200/175 | 171/185 | | | | | | | | | | | | | |
| | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 194/178 | 200/200 | 178/191 | | | | | | | | | | | | | |
| | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 203/186 | 225/200 | 187/199 | | | | | | | | | | | | | |
| | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 107/103 | 125/125 | 116/111 | | | | | | | | | | | | | |
| | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 113/108 | 125/125 | 123/118 | | | | | | | | | | | | | |
| | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 121/115 | 125/125 | 132/125 | | | | | | | | | | | | | |
| 20 | 460-3-60 | 414 | 506 | 12.8 | 100 | 12.8 | 100 | 100 | 4 | 0.25 | 0.7 | - | 60 | 3.7 | 7.6 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 52 | 60 | 56 |
| | | | | | | | | | | | | | | 5 | 7.6 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 55 | 60 | 59 |
| | | | | | | | | | | | | | | 7.5 | 11 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 58 | 60 | 63 |
| | | | | | | | | | | | | | | 3.7 | 4.8 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 63 | 70 | 58 |
| | | | | | | | | | | | | | | 5 | 7.6 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 66 | 70 | 61 |
| | | | | | | | | | | | | | | 7.5 | 11 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 71 | 80 | 65 |
| | 3.7 | 4.8 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 85 | 90 | 92 | | | | | | | | | | | | | |
| | 5 | 7.6 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 89 | 90 | 96 | | | | | | | | | | | | | |
| | 7.5 | 11 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 93 | 100 | 100 | | | | | | | | | | | | | |
| | 3.7 | 4.8 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 97 | 100 | 103 | | | | | | | | | | | | | |
| | 5 | 7.6 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 119 | 125 | 127 | | | | | | | | | | | | | |
| | 7.5 | 11 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 123 | 125 | 134 | | | | | | | | | | | | | |
| 50PM16 | 575-3-60 | 518 | 633 | 9.6 | 78 | 9.6 | 78 | 78 | 4 | 0.25 | 0.7 | - | 24 | 3.7 | 6.1 | 2 | 2.4 | 3 | 3 | 3.3 | 0.167 | 0.3 | 43 | 50 | 47 |
| | | | | | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 3 | 3 | 3.3 | 0.167 | 0.3 | 46 | 50 | 50 |
| | | | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3 | 3.3 | 0.167 | 0.3 | 53 | 60 | 49 |
| | | | | | | | | | | | | | | 3.7 | 4.8 | 2 | 2.4 | 3 | 3 | 3.3 | 0.167 | 0.3 | 57 | 60 | 52 |
| | | | | | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 3 | 3 | 3.3 | 0.167 | 0.3 | 81 | 90 | 74 |
| | | | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3 | 3.3 | 0.167 | 0.3 | 85 | 90 | 78 |
| | 3.7 | 6.1 | 2 | 2.4 | 3 | 3 | 3.3 | 0.167 | 0.3 | 98 | 100 | 108 | | | | | | | | | | | | | |
| | 5 | 6.1 | 2 | 2.4 | 3 | 3 | 3.3 | 0.167 | 0.3 | 102 | 110 | 111 | | | | | | | | | | | | | |
| | 7.5 | 9 | 2 | 2.4 | 3 | 3 | 3.3 | 0.167 | 0.3 | 115 | 125 | 127 | | | | | | | | | | | | | |
| | 3.7 | 4.8 | 2 | 2.4 | 3 | 3 | 3.3 | 0.167 | 0.3 | 122/118 | 150/150 | 131/126 | | | | | | | | | | | | | |
| | 5 | 6.1 | 2 | 2.4 | 3 | 3 | 3.3 | 0.167 | 0.3 | 128/124 | 150/150 | 147/140 | | | | | | | | | | | | | |
| | 7.5 | 9 | 2 | 2.4 | 3 | 3 | 3.3 | 0.167 | 0.3 | 136/130 | 150/150 | 154/147 | | | | | | | | | | | | | |
| 208/230-3-60 | 187 | 253 | 29.6 | 164 | 25 | 29.6 | 164 | 164 | 4 | 0.25 | 1.5 | - | 52/60 | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 129/133 | 150/150 | 138/133 |
| | | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 138/141 | 150/150 | 147/140 |
| | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 146/149 | 175/150 | 154/147 |
| | | | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 166/171 | 200/175 | 171/185 |
| | | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 194/178 | 200/200 | 178/191 |
| | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 203/186 | 225/200 | 187/199 |
| | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 211/194 | 225/200 | 194/206 | | | | | | | | | | | | | |
| | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 221/118 | 150/150 | 131/126 | | | | | | | | | | | | | |
| | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 228/124 | 150/150 | 138/133 | | | | | | | | | | | | | |
| | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 236/130 | 150/150 | 147/140 | | | | | | | | | | | | | |
| | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 243/136 | 175/150 | 154/147 | | | | | | | | | | | | | |
| | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 251/147 | 175/150 | 154/147 | | | | | | | | | | | | | |

See General Notes for Electrical Data Tables on page 61.

Electrical Data - 50PM16 - 28 EnergyX Unit Without Optional Unit Powered Convenience Outlet, with Economizer (CONT)

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | | | ELECTRIC HEAT | | | IFM | | | ERV SUPPLY | | | ERV EXHAUST | | | ERV WHEEL | | POWER SUPPLY | | DISCONNECT SIZE | |
|-----------|-----------------|---------------|-----|------------|-----|-------|-----|----------|---------|---------------|----|----------|-------|----------|-----|------------|----|----------|-------------|----------|----|-----------|----|--------------|---------|-----------------|-------|
| | | Min | Max | No. 1 | | No. 2 | | FLA (ea) | KW | FLA | Hp | FLA (ea) | Hp | FLA (ea) | Qty | FLA (ea) | Hp | FLA (ea) | Qty | FLA (ea) | Hp | FLA (ea) | Hp | FLA | MCA | | MOCPP |
| | | | | RLA | LRA | RLA | LRA | | | | | | | | | | | | | | | | | | | | |
| 16 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 56/75 | 156/180 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 156/180 | 175/200 | 179/207 | |
| 20 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | 56/75 | 156/180 | NA | NA | NA | 56/75 | 156/180 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 156/180 | 175/200 | 179/207 | |
| 24 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | 56/75 | 156/180 | NA | NA | NA | 56/75 | 156/180 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 156/180 | 175/200 | 179/207 | |
| 28 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | 56/75 | 156/180 | NA | NA | NA | 56/75 | 156/180 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 156/180 | 175/200 | 179/207 | |

† Electric Heat Branch Circuit for 50PM16 – 28 unit 208/230/240v with 75 – kW Electric Heat

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | | | ELECTRIC HEAT | | | IFM | | | ERV SUPPLY | | | ERV EXHAUST | | | ERV WHEEL | | POWER SUPPLY | | DISCONNECT SIZE | |
|-----------|-----------------|---------------|-----|------------|-----|-------|-----|----------|-----|---------------|----|----------|---------|----------|-----------|------------|----------|----------|-------------|----------|-----|-----------|-------|--------------|---------|-----------------|---------|
| | | Min | Max | No. 1 | | No. 2 | | FLA (ea) | KW | FLA | Hp | FLA (ea) | Qty | FLA (ea) | Hp | FLA (ea) | Qty | FLA (ea) | Hp | FLA (ea) | Qty | FLA (ea) | Hp | FLA | MCA | | MOCPP |
| | | | | RLA | LRA | RLA | LRA | | | | | | | | | | | | | | | | | | | | |
| 16 | 208/230-3-60 | 187 | 253 | 25 | 164 | 25 | 164 | 4 | 1.5 | 0.25 | 4 | 56/75 | 156/180 | 3.7 | 10.8/9.6 | 2 | 7.08/6.4 | 2 | 7.08/6.4 | 3 | 3 | 8.85/6.0 | 0.167 | 0.66/0.6 | 212/231 | 225/250 | 231/254 |
| 20 | 208/230-3-60 | 187 | 253 | 33.5 | 225 | 29.6 | 164 | 4 | 1.5 | 0.25 | 4 | 56/75 | 156/180 | 7.5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 7.08/6.4 | 3 | 3 | 8.85/6.0 | 0.167 | 0.66/0.6 | 220/238 | 225/250 | 238/260 |
| 24 | 208/230-3-60 | 187 | 253 | 40 | 239 | 33.5 | 225 | 6 | 1.5 | 0.25 | 6 | 56/75 | 156/180 | 3.7 | 10.8/9.6 | 2 | 7.08/6.4 | 2 | 7.08/6.4 | 3 | 3 | 8.85/6.0 | 0.167 | 0.66/0.6 | 229/246 | 250/250 | 247/268 |
| 28 | 208/230-3-60 | 187 | 253 | 48 | 245 | 48 | 245 | 6 | 1.5 | 0.25 | 6 | 56/75 | 156/180 | 7.5 | 16.7/15.2 | 2 | 7.08/6.4 | 2 | 7.08/6.4 | 3 | 3 | 8.85/6.0 | 0.167 | 0.66/0.6 | 237/254 | 250/300 | 254/275 |

LEGEND

- FLA – Full Load Amps
- IFM – Indoor (Evaporator) Fan Motor
- LRA – Locked Rotor Amps
- MCA – Minimum Circuit Amps
- MOCPP – Maximum Overcurrent Protection
- NEC – National Electrical Code
- OFM – Outdoor (Condenser) Fan Motor
- RLA – Rated Load Amps

† Electric Heat Branch Circuit for 50PM16 – 28, 208/230/240v EnergyX unit without Optional Powered Conv Outlet with economizer and 75 – kW Electric Heat
See General Notes for Electrical Data Tables on page 61.



50PM

Electrical Data - 50PM16 - 28 EnergyX Unit with Optional Unit Powered Convenience Outlet, with Economizer (CONT)

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | OFM | | ELECTRIC HEAT † | | IFM | | ERV SUPPLY | | ERV EXHAUST | | ERV WHEEL | | POWER SUPPLY † | | DISCONNECT SIZE † | |
|-----------|-----------------|---------------|-----|------------|-----|------|-----|-----|------|-----------------|-------|---------|-----|------------|-----|-------------|----------|-----------|-------|----------------|---------|-------------------|---------|
| | | Min | Max | RLA | LRA | RLA | LRA | Qty | Hp | FLA (ea) | KW | FLA | Hp | FLA (ea) | Qty | Hp | FLA (ea) | FLA | Hp | MCA | MOCP | | |
| 20 | 575-3-60 | 518 | 633 | 13 | 80 | 11 | 78 | 4 | 0.25 | 0.7 | 48.3 | 24 | 5 | 6.1 | 2 | 2.4 | 3 | 3.3 | 0.3 | 52 | 60 | 56 | |
| | | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3.3 | 0.167 | 0.3 | 55 | 60 | 59 |
| | | | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 3 | 3.3 | 0.167 | 0.3 | 57 | 60 | 61 |
| | | | | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 3 | 3.3 | 0.167 | 0.3 | 57 | 60 | 56 |
| | | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3.3 | 0.167 | 0.3 | 61 | 70 | 59 |
| | | | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 3 | 3.3 | 0.167 | 0.3 | 63 | 70 | 61 |
| | | | | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 3 | 3.3 | 0.167 | 0.3 | 85 | 90 | 78 |
| | | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3.3 | 0.167 | 0.3 | 88 | 90 | 81 |
| | | | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 3 | 3.3 | 0.167 | 0.3 | 91 | 100 | 83 |
| | | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3.3 | 0.167 | 0.3 | 102 | 110 | 88 |
| 24 | 460-3-60 | 187 | 253 | 40 | 239 | 33.5 | 225 | 6 | 0.25 | 1.5 | 38/50 | 104/120 | 5 | 6.1 | 2 | 2.4 | 3 | 3.3 | 0.3 | 108 | 110 | 115 | |
| | | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3.3 | 0.167 | 0.3 | 108 | 110 | 117 |
| | | | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 3 | 3.3 | 0.167 | 0.3 | 108 | 110 | 117 |
| | | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 3 | 8.85/6.0 | 0.167 | 0.66/0.6 | 142/138 | 175/175 | 152/147 |
| | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 8.85/6.0 | 0.167 | 0.66/0.6 | 149/144 | 175/175 | 159/154 |
| | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 8.85/6.0 | 0.167 | 0.66/0.6 | 156/151 | 175/175 | 168/162 |
| | | | | | | | | | | | | | 10 | 30.8/28 | 2 | 7.08/6.4 | 3 | 8.85/6.0 | 0.167 | 0.66/0.6 | 163/157 | 200/175 | 175/168 |
| | | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 3 | 8.85/6.0 | 0.167 | 0.66/0.6 | 142/138 | 175/175 | 152/147 |
| | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 8.85/6.0 | 0.167 | 0.66/0.6 | 148/144 | 175/175 | 159/154 |
| | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 8.85/6.0 | 0.167 | 0.66/0.6 | 156/151 | 175/175 | 168/162 |
| 24 | 460-3-60 | 414 | 506 | 19.5 | 125 | 17.7 | 114 | 6 | 0.25 | 0.7 | 56/75 | 156/180 | 5 | 6.1 | 2 | 2.4 | 3 | 3.3 | 0.35 | 70 | 80 | 74 | |
| | | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3.3 | 0.167 | 0.35 | 72 | 90 | 78 |
| | | | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 3 | 3.3 | 0.167 | 0.35 | 76 | 90 | 82 |
| | | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 3 | 8.85/6.0 | 0.167 | 0.66/0.6 | 163/157 | 200/175 | 175/168 |
| | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 8.85/6.0 | 0.167 | 0.66/0.6 | 163/157 | 200/175 | 175/168 |
| | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 8.85/6.0 | 0.167 | 0.66/0.6 | 163/157 | 200/175 | 175/168 |
| | | | | | | | | | | | | | 10 | 30.8/28 | 2 | 7.08/6.4 | 3 | 8.85/6.0 | 0.167 | 0.66/0.6 | 163/157 | 200/175 | 175/168 |
| | | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 3 | 8.85/6.0 | 0.167 | 0.66/0.6 | 163/157 | 200/175 | 175/168 |
| | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 8.85/6.0 | 0.167 | 0.66/0.6 | 163/157 | 200/175 | 175/168 |
| | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 8.85/6.0 | 0.167 | 0.66/0.6 | 163/157 | 200/175 | 175/168 |
| 24 | 575-3-60 | 518 | 633 | 16.6 | 80 | 13 | 80 | 6 | 0.25 | 0.7 | 24.8 | 24 | 5 | 6.1 | 2 | 2.4 | 3 | 3.3 | 0.3 | 60 | 60 | 64 | |
| | | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3.3 | 0.167 | 0.3 | 63 | 70 | 67 |
| | | | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 3 | 3.3 | 0.167 | 0.3 | 65 | 80 | 69 |
| | | | | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 3 | 3.3 | 0.167 | 0.3 | 60 | 60 | 64 |
| | | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3.3 | 0.167 | 0.3 | 63 | 70 | 67 |
| | | | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 3 | 3.3 | 0.167 | 0.3 | 65 | 80 | 69 |
| | | | | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 3 | 3.3 | 0.167 | 0.3 | 65 | 80 | 69 |
| | | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3.3 | 0.167 | 0.3 | 88 | 90 | 83 |
| | | | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 3 | 3.3 | 0.167 | 0.3 | 91 | 100 | 88 |
| | | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3.3 | 0.167 | 0.3 | 102 | 110 | 111 |

See General Notes for Electrical Data Tables on page 61.



Electrical Data - 50PM16 - 28 EnergyX Unit with Optional Unit Powered Convenience Outlet, with Economizer (CONT)

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | | | ELECTRIC HEAT † | | IFM | | ERV SUPPLY | | ERV EXHAUST | | | ERV WHEEL | | POWER SUPPLY † | | DISCONNECT SIZE † | | |
|-----------|-----------------|---------------|-------|------------|------|------|-------|-------|-----|-----------------|-----------|-----------|----------|------------|-----------|-------------|----------|----------|-----------|----------|----------------|----------|-------------------|---------|---------|
| | | Min | Max | RLA | RLA | RLA | No. 1 | No. 2 | FLA | FLA | FLA | FLA (ea) | Qty | Hp | FLA (ea) | FLA | FLA | FLA | MCA | MOCP | FLA | FLA | | | |
| 28 | 208/230-3-60 | 187 | 253 | 48.1 | 245 | 48.1 | 245 | 18 | 100 | 6 | 0.25 | 1.5 | - | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 173/168 | 200/200 | 185/180 |
| | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 181/175 | 225/200 | 194/188 |
| | | | | | | | | | | | | | | 10 | 30.8/28 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 187/181 | 225/225 | 202/195 |
| | | 19/25 | 52/60 | - | - | - | - | - | - | - | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 173/168 | 200/200 | 185/180 | 194/188 | 202/195 | |
| | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 181/175 | 225/200 | 194/188 | | | |
| | | | | | | | | | | | 10 | 30.8/28 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 187/181 | 225/225 | 202/195 | | | |
| | 38/50 | 104/120 | - | - | - | - | - | - | - | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 200/184 | 200/200 | 185/197 | 194/188 | 202/195 | | |
| | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 209/193 | 225/200 | 194/188 | | | | |
| | | | | | | | | | | 10 | 30.8/28 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 218/200 | 225/225 | 202/195 | | | | |
| | 56/75 † | 156/180 | - | - | - | - | - | - | - | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 173/168 | 200/200 | 185/180 | 194/188 | 202/195 | | |
| | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 181/175 | 225/200 | 194/188 | | | | |
| | | | | | | | | | | 10 | 30.8/28 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 187/181 | 225/225 | 202/195 | | | | |
| 460-3-60 | 414 | 506 | 22.5 | 125 | 22.5 | 125 | 18 | 100 | 6 | 0.25 | 0.7 | - | 5 | 7.6 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 81 | 100 | 87 | |
| | | | | | | | | | | | | | 7.5 | 11 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 84 | 100 | 94 | |
| | | | | | | | | | | | | | 10 | 14 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 87 | 100 | 94 | |
| | | | | | | | | | | | | | 5 | 7.6 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 81 | 100 | 87 | |
| | | | | | | | | | | | | | 7.5 | 11 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 84 | 100 | 94 | |
| | | | | | | | | | | | | | 10 | 14 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 87 | 100 | 94 | |
| | 50 | 60 | - | - | - | - | - | - | - | 5 | 7.6 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 93 | 100 | 99 | | | | |
| | | | | | | | | | | 7.5 | 11 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 97 | 100 | 103 | | | | |
| | | | | | | | | | | 10 | 14 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 101 | 100 | 106 | | | | |
| | | | | | | | | | | 5 | 7.6 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 123 | 125 | 134 | | | | |
| | | | | | | | | | | 7.5 | 11 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 127 | 150 | 137 | | | | |
| | | | | | | | | | | 10 | 14 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 131 | 150 | 141 | | | | |
| 75 | 90 | - | - | - | - | - | - | - | 5 | 6.1 | 2 | 2.4 | 3 | 3 | 3.3 | 0.167 | 0.3 | 66 | 80 | 71 | | | | | |
| | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3 | 3.3 | 0.167 | 0.3 | 69 | 80 | 75 | | | | | |
| | | | | | | | | | 10 | 11 | 2 | 2.4 | 3 | 3 | 3.3 | 0.167 | 0.3 | 71 | 80 | 77 | | | | | |
| | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 3 | 3 | 3.3 | 0.167 | 0.3 | 66 | 80 | 71 | | | | | |
| | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3 | 3.3 | 0.167 | 0.3 | 69 | 80 | 75 | | | | | |
| | | | | | | | | | 10 | 11 | 2 | 2.4 | 3 | 3 | 3.3 | 0.167 | 0.3 | 71 | 80 | 77 | | | | | |
| 48.3 | 46 | - | - | - | - | - | - | - | 5 | 6.1 | 2 | 2.4 | 3 | 3 | 3.3 | 0.167 | 0.3 | 85 | 90 | 78 | | | | | |
| | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3 | 3.3 | 0.167 | 0.3 | 88 | 90 | 81 | | | | | |
| | | | | | | | | | 10 | 11 | 2 | 2.4 | 3 | 3 | 3.3 | 0.167 | 0.3 | 91 | 100 | 83 | | | | | |
| | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 3 | 3 | 3.3 | 0.167 | 0.3 | 102 | 110 | 111 | | | | | |
| | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3 | 3.3 | 0.167 | 0.3 | 106 | 110 | 115 | | | | | |
| | | | | | | | | | 10 | 11 | 2 | 2.4 | 3 | 3 | 3.3 | 0.167 | 0.3 | 108 | 110 | 117 | | | | | |

LEGEND

- FLA - Full Load Amps
- IFM - Indoor (Evaporator) Fan Motor
- LRA - Locked Rotor Amps
- MCA - Minimum Circuit Amps
- MOCP - Maximum Overcurrent Protection
- NEC - National Electrical Code
- OFM - Outdoor (Condenser) Fan Motor
- RLA - Rated Load Amps

* Fuse or circuit breaker.
 † 208/230 v 75-kW Electric Heat units must use dual-point wiring. The main table lists the branch circuit values for the refrigeration part of the system. See separate tables for the branch circuit values for the electric heat and values for a feeder circuit for both branch circuits.
 See General Notes for Electrical Data Tables on page 61.

Electrical Data - 50PM16 - 28 EnergyX Unit with Optional Unit Powered Convenience Outlet, with Economizer (CONT)

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | | | ELECTRIC HEAT | | IFM | | ERV SUPPLY | | ERV EXHAUST | | | ERV WHEEL | | POWER SUPPLY | | DISCONNECT SIZE | |
|-----------|-----------------|---------------|-----|------------|-----|-------|-----|----------|---------|---------------|----|----------|----|------------|-----|-------------|----------|----|-----------|----|--------------|---------|-----------------|-------|
| | | Min | Max | No. 1 | | No. 2 | | FLA (ea) | kW | FLA | Hp | FLA (ea) | Hp | FLA (ea) | Qty | Hp | FLA (ea) | Hp | FLA | Hp | FLA | MCA | | MOCPP |
| | | | | RLA | LRA | RLA | LRA | | | | | | | | | | | | | | | | | |
| 16 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | 56/75 | 156/180 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 156/180 | 175/200 | 179/207 | |
| 20 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | 56/75 | 156/180 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 156/180 | 175/200 | 179/207 | |
| 24 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | 56/75 | 156/180 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 156/180 | 175/200 | 179/207 | |
| 28 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | 56/75 | 156/180 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 156/180 | 175/200 | 179/207 | |

† Electrical Data - 50PM16 - 28 EnergyX Unit with Optional Unit Powered Convenience Outlet, with Economizer

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | | | ELECTRIC HEAT | | IFM | | ERV SUPPLY | | ERV EXHAUST | | | ERV WHEEL | | POWER SUPPLY | | DISCONNECT SIZE | | |
|-----------|-----------------|---------------|-----|------------|-----|-------|-----|----------|---------|---------------|-----------|----------|----------|------------|----------|-------------|-------|----------|-----------|---------|--------------|---------|-----------------|-----|-------|
| | | Min | Max | No. 1 | | No. 2 | | FLA (ea) | kW | FLA | Hp | FLA (ea) | Qty | Hp | FLA (ea) | Qty | Hp | FLA (ea) | Hp | FLA | Hp | FLA | | MCA | MOCPP |
| | | | | RLA | LRA | RLA | LRA | | | | | | | | | | | | | | | | | | |
| 16 | 208/230-3-60 | 187 | 253 | 25 | 164 | 25 | 164 | 56/75 | 156/180 | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 218/237 | 225/250 | 218/237 | 225/250 | 237/259 | | |
| 20 | 208/230-3-60 | 187 | 253 | 33.5 | 225 | 29.6 | 164 | 56/75 | 156/180 | 7.5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 226/244 | 250/250 | 226/244 | 250/250 | 244/266 | | |
| 24 | 208/230-3-60 | 187 | 253 | 40 | 239 | 33.5 | 225 | 56/75 | 156/180 | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 235/253 | 250/300 | 235/253 | 250/300 | 252/274 | | |
| 28 | 208/230-3-60 | 187 | 253 | 48.1 | 245 | 48.1 | 245 | 56/75 | 156/180 | 10 | 30.8/28 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 244/260 | 250/300 | 244/260 | 250/300 | 260/281 | | |

LEGEND

- FLA - Full Load Amps
- IFM - Indoor (Evaporator) Fan Motor
- LRA - Locked Rotor Amps
- MCA - Minimum Circuit Amps
- MOCPP - Maximum Overcurrent Protection
- NEC - National Electrical Code
- OFM - Outdoor (Condenser) Fan Motor
- RLA - Rated Load Amps

† Electric Heat Branch Circuit for 50PM16-28, 208/230/240v EnergyX Unit with Optional Powered Conv Outlet with economizer and 75--kW Electric Heat
See General Notes for Electrical Data Tables on page 61.

Electrical Data - 50PMI6 - 28 EnergyX Without Optional Unit Powered Convenience Outlet, with HACR Breaker, with Economizer

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | OFM | | ELECTRIC HEAT † | | IFM | | ERV SUPPLY | | ERV EXHAUST | | ERV WHEEL | | POWER SUPPLY † | | DISCONNECT SIZE † | | | | | |
|-----------|-----------------|---------------|-----|------------|------|-------|------|-------|-----|-----------------|------|----------|---------|------------|-----------|-------------|-----------|-----------|----------|----------------|----------|-------------------|---------|---------|---------|---------|---------|
| | | Min | Max | RLA | LRA | No. 1 | RLA | No. 2 | LRA | Qty | Hp | FLA (ea) | kW | FLA | Hp | FLA (ea) | Qty | Hp | FLA (ea) | FLA | Hp | | IMCA | MOCP | | | |
| 16 | 208/230 | 187 | 253 | 25 | 164 | 12.8 | 100 | 0.7 | 4 | 0.25 | 1.5 | 19/25 | 52/60 | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.650/6 | 107/107 | 125/125 | 116/111 | | |
| | | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.650/6 | 113/113 | 125/125 | 123/118 | | |
| | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.650/6 | 121/121 | 125/125 | 132/125 | | |
| | | | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.650/6 | 126/126 | 150/150 | 116/116 | | |
| | | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.650/6 | 139/133 | 150/150 | 123/122 | | |
| | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.650/6 | 147/141 | 150/150 | 132/130 | | |
| | 460 | 506 | 414 | 506 | 12.8 | 100 | 0.7 | 0.25 | 4 | 0.25 | 1.5 | 38/50 | 104/120 | 56/75 † | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.650/6 | 107/107 | 125/125 | 116/111 | |
| | | | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.650/6 | 113/113 | 125/125 | 123/118 | |
| | | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.650/6 | 121/121 | 125/125 | 132/125 | |
| | | | | | | | | | | | | | | | 3.7 | 4.8 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 52 | 60 | 56 | |
| | | | | | | | | | | | | | | | 5 | 7.6 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 55 | 60 | 59 | |
| | | | | | | | | | | | | | | | 7.5 | 11 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 58 | 70 | 63 | |
| 20 | 208/230 | 187 | 253 | 33.5 | 225 | 29.6 | 164 | 1.5 | 4 | 0.25 | 1.5 | 38/50 | 104/120 | 56/75 † | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.650/6 | 107/107 | 125/125 | 116/111 | |
| | | | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.650/6 | 113/113 | 125/125 | 123/118 | |
| | | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.650/6 | 121/121 | 125/125 | 132/125 | |
| | | | | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.650/6 | 126/126 | 150/150 | 116/116 | |
| | | | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.650/6 | 139/133 | 150/150 | 123/122 | |
| | | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.650/6 | 147/141 | 150/150 | 132/130 | |
| | 460 | 506 | 414 | 506 | 17.7 | 114 | 14.8 | 100 | 0.7 | 4 | 0.25 | 1.5 | 38/50 | 104/120 | 56/75 † | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.650/6 | 107/107 | 125/125 | 116/111 |
| | | | | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.650/6 | 113/113 | 125/125 | 123/118 |
| | | | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.650/6 | 121/121 | 125/125 | 132/125 |
| | | | | | | | | | | | | | | | | 3.7 | 4.8 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 52 | 60 | 56 |
| | | | | | | | | | | | | | | | | 5 | 7.6 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 55 | 60 | 59 |
| | | | | | | | | | | | | | | | | 7.5 | 11 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 58 | 70 | 63 |

See General Notes for Electrical Data Tables on page 61.

Electrical Data - 50PM16 - 28 EnergyX Without Optional Unit Powered Convenience Outlet, with HACR Breaker, with Economizer (CONT)

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | ELECTRIC HEAT † | | IFM | | ERV SUPPLY | | ERV EXHAUST | | ERV WHEEL | | POWER SUPPLY † | | DISCONNECT SIZE † | | | | | | | | | | | | | |
|-----------|-----------------|---------------|-------|------------|-----------|------|----------|-----------------|----------|-----|-----------|------------|----------|-------------|----------|-----------|-------|----------------|---------|-------------------|---------|-----|-----------|---|----------|---|----------|---|-------|----------|---------|---------|---------|
| | | Min | Max | No. 1 | No. 2 | FLA | LRA | FLA | LRA | Qty | HP | FLA (ea) | Qty | HP | FLA (ea) | Qty | HP | FLA | MCO | | FLA | | | | | | | | | | | | |
| 20 | 575 | 518 | 633 | 13 | 80 | 11 | 78 | 0.7 | - | 5 | 6.1 | 2 | 2.4 | 3 | 3.3 | 3 | 0.167 | 0.3 | 49 | 60 | 52 | | | | | | | | | | | | |
| | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3.3 | 3 | 0.167 | 0.3 | 52 | 60 | 58 | | | | | | | | | | | | |
| | | | | | | | | | | 10 | 11 | 2 | 2.4 | 3 | 3.3 | 3 | 0.167 | 0.3 | 54 | 60 | 60 | | | | | | | | | | | | |
| | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 3 | 3.3 | 3 | 0.167 | 0.3 | 53 | 60 | 52 | | | | | | | | | | | | |
| | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3.3 | 3 | 0.167 | 0.3 | 57 | 60 | 56 | | | | | | | | | | | | |
| | | | | | | | | | | 10 | 11 | 2 | 2.4 | 3 | 3.3 | 3 | 0.167 | 0.3 | 60 | 60 | 58 | | | | | | | | | | | | |
| | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 3 | 3.3 | 3 | 0.167 | 0.3 | 81 | 90 | 74 | | | | | | | | | | | | |
| | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3.3 | 3 | 0.167 | 0.3 | 85 | 90 | 78 | | | | | | | | | | | | |
| | | | | | | | | | | 10 | 11 | 2 | 2.4 | 3 | 3.3 | 3 | 0.167 | 0.3 | 87 | 90 | 80 | | | | | | | | | | | | |
| | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3.3 | 3 | 0.167 | 0.3 | 87 | 90 | 80 | | | | | | | | | | | | |
| 24 | 460 | 414 | 506 | 19.5 | 125 | 17.7 | 114 | 0.7 | - | 5 | 6.1 | 2 | 2.4 | 3 | 3.3 | 3 | 0.167 | 0.3 | 57 | 70 | 60 | | | | | | | | | | | | |
| | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3.3 | 3 | 0.167 | 0.3 | 60 | 70 | 64 | | | | | | | | | | | | |
| | | | | | | | | | | 10 | 11 | 2 | 2.4 | 3 | 3.3 | 3 | 0.167 | 0.3 | 62 | 70 | 66 | | | | | | | | | | | | |
| | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 3 | 3.3 | 3 | 0.167 | 0.3 | 57 | 70 | 60 | | | | | | | | | | | | |
| | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3.3 | 3 | 0.167 | 0.3 | 60 | 70 | 64 | | | | | | | | | | | | |
| | | | | | | | | | | 10 | 11 | 2 | 2.4 | 3 | 3.3 | 3 | 0.167 | 0.3 | 62 | 70 | 66 | | | | | | | | | | | | |
| | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 3 | 3.3 | 3 | 0.167 | 0.3 | 81 | 90 | 74 | | | | | | | | | | | | |
| | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3.3 | 3 | 0.167 | 0.3 | 85 | 90 | 78 | | | | | | | | | | | | |
| | | | | | | | | | | 10 | 11 | 2 | 2.4 | 3 | 3.3 | 3 | 0.167 | 0.3 | 87 | 90 | 80 | | | | | | | | | | | | |
| | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3.3 | 3 | 0.167 | 0.3 | 87 | 90 | 80 | | | | | | | | | | | | |
| 28 | 208/230 | 187 | 253 | 40 | 239 | 33.5 | 225 | 1.5 | - | 5 | 6.1 | 2 | 2.4 | 3 | 3.3 | 3 | 0.167 | 0.3 | 102 | 125 | 111 | | | | | | | | | | | | |
| | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3.3 | 3 | 0.167 | 0.3 | 105 | 125 | 113 | | | | | | | | | | | | |
| | | | | | | | | | | 10 | 11 | 2 | 2.4 | 3 | 3.3 | 3 | 0.167 | 0.3 | 105 | 125 | 113 | | | | | | | | | | | | |
| | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 3 | 0.167 | 0.66/0.6 | 137/137 | 175/175 | 146/142 | | | | | | | | | | | | |
| | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 3 | 0.167 | 0.66/0.6 | 143/143 | 175/175 | 154/148 | | | | | | | | | | | | |
| | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 3 | 0.167 | 0.66/0.6 | 151/151 | 175/175 | 162/156 | | | | | | | | | | | | |
| | | | | | | | | | | 10 | 30.8/28 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 3 | 0.167 | 0.66/0.6 | 158/158 | 175/175 | 170/163 | | | | | | | | | | | | |
| | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 3 | 0.167 | 0.66/0.6 | 137/137 | 175/175 | 146/142 | | | | | | | | | | | | |
| | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 3 | 0.167 | 0.66/0.6 | 143/143 | 175/175 | 154/148 | | | | | | | | | | | | |
| | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 3 | 0.167 | 0.66/0.6 | 151/151 | 175/175 | 162/156 | | | | | | | | | | | | |
| 32 | 208/230 | 104/120 | 38/50 | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 3 | 0.167 | 0.66/0.6 | 158/158* | 175/175 | 170/163 | 71 | 67 | 80 | 80 | 74 | 78 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 3 | 0.167 | 0.66/0.6 | 137/137 | 175/175 | 146/142 |
| | | | | | | | | | | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 3 | 0.167 | 0.66/0.6 | 143/143 | 175/175 | 154/148 |
| | | | | | | | | | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 3 | 0.167 | 0.66/0.6 | 151/151 | 175/175 | 162/156 |
| | | | | | | | | | | | | | | | | | | | | | | 10 | 30.8/28 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 3 | 0.167 | 0.66/0.6 | 158/158 | 175/175 | 170/163 |
| | | | | | | | | | | | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 3 | 0.167 | 0.66/0.6 | 137/137 | 175/175 | 146/142 |
| | | | | | | | | | | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 3 | 0.167 | 0.66/0.6 | 143/143 | 175/175 | 154/148 |
| | | | | | | | | | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 3 | 0.167 | 0.66/0.6 | 151/151 | 175/175 | 162/156 |
| | | | | | | | | | | | | | | | | | | | | | | 10 | 30.8/28 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 3 | 0.167 | 0.66/0.6 | 158/158 | 175/175 | 170/163 |
| | | | | | | | | | | | | | | | | | | | | | | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 3 | 0.167 | 0.66/0.6 | 137/137 | 175/175 | 146/142 |

See General Notes for Electrical Data Tables on page 61.



Electrical Data - 50PM16 - 28 EnergyX Without Optional Unit Powered Convenience Outlet, with HACR Breaker, with Economizer (CONT)

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | ELECTRIC HEAT † | | IFM | | ERV SUPPLY | | ERV EXHAUST | | ERV WHEEL | | POWER SUPPLY † | | DISCONNECT SIZE † |
|-----------|-----------------|---------------|------|------------|------|------|-----|-----------------|-----|-----|-----------|------------|----------|-------------|----------|-----------|----------|----------------|---------|-------------------|
| | | Min | Max | RLA | FLA | RLA | FLA | RLA | FLA | FLA | FLA (ea) | Qty | Hp | FLA (ea) | Qty | Hp | FLA | FLA | MCA | |
| 28 | 208/230 | 187 | 253 | 48.1 | 245 | 48.1 | 245 | 1.5 | - | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 168/168 | 200/200 | 180/174 |
| | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 176/176 | 200/200 | 188/182 |
| | | | | | | | | | | 10 | 30.8/28 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 182/182 | 225/225 | 196/189 |
| | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 168/168 | 200/200 | 180/174 |
| | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 176/176 | 200/200 | 188/182 |
| | | | | | | | | | | 10 | 30.8/28 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 182/182 | 225/225 | 196/189 |
| | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 168/168 | 200/200 | 180/174 |
| | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 176/176 | 200/200 | 188/182 |
| | | | | | | | | | | 10 | 30.8/28 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 182/182 | 225/225 | 196/189 |
| | | | | | | | | | | 5 | 7.6 | 2 | 3.2 | 3 | 4 | 0.167 | 0.35 | 78 | 100 | 83 |
| 460 | 414 | 506 | 22.5 | 125 | 22.5 | 125 | 0.7 | - | 10 | 14 | 2 | 3.2 | 3 | 4 | 0.167 | 0.35 | 84 | 100 | 87 | |
| | | | | | | | | | 7.5 | 11 | 2 | 3.2 | 3 | 4 | 0.167 | 0.35 | 84 | 100 | 87 | |
| | | | | | | | | | 5 | 7.6 | 2 | 3.2 | 3 | 4 | 0.167 | 0.35 | 78 | 100 | 83 | |
| | | | | | | | | | 7.5 | 11 | 2 | 3.2 | 3 | 4 | 0.167 | 0.35 | 81 | 100 | 87 | |
| | | | | | | | | | 10 | 14 | 2 | 3.2 | 3 | 4 | 0.167 | 0.35 | 84 | 100 | 91 | |
| | | | | | | | | | 5 | 7.6 | 2 | 3.2 | 3 | 4 | 0.167 | 0.35 | 84 | 100 | 91 | |
| | | | | | | | | | 7.5 | 11 | 2 | 3.2 | 3 | 4 | 0.167 | 0.35 | 89 | 100 | 96 | |
| | | | | | | | | | 10 | 14 | 2 | 3.2 | 3 | 4 | 0.167 | 0.35 | 93 | 100 | 100 | |
| | | | | | | | | | 5 | 7.6 | 2 | 3.2 | 3 | 4 | 0.167 | 0.35 | 97 | 100 | 103 | |
| | | | | | | | | | 7.5 | 11 | 2 | 3.2 | 3 | 4 | 0.167 | 0.35 | 97 | 100 | 103 | |
| 575 | 518 | 633 | 18 | 100 | 18 | 100 | 0.7 | 24 | 5 | 7.6 | 2 | 3.2 | 3 | 4 | 0.167 | 0.35 | 119 | 125 | 130 | |
| | | | | | | | | | 7.5 | 11 | 2 | 3.2 | 3 | 4 | 0.167 | 0.35 | 123 | 125 | 134 | |
| | | | | | | | | | 10 | 14 | 2 | 3.2 | 3 | 4 | 0.167 | 0.35 | 127 | 150 | 137 | |
| | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 3 | 3.3 | 0.167 | 0.3 | 63 | 80 | 68 | |
| | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3.3 | 0.167 | 0.3 | 66 | 80 | 71 | |
| | | | | | | | | | 10 | 11 | 2 | 2.4 | 3 | 3.3 | 0.167 | 0.3 | 68 | 80 | 73 | |
| | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 3 | 3.3 | 0.167 | 0.3 | 63 | 80 | 68 | |
| | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3.3 | 0.167 | 0.3 | 66 | 80 | 71 | |
| | | | | | | | | | 10 | 11 | 2 | 2.4 | 3 | 3.3 | 0.167 | 0.3 | 66 | 80 | 73 | |
| | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 3 | 3.3 | 0.167 | 0.3 | 68 | 80 | 74 | |
| 78 | 75 | 78 | 75 | 75 | 75 | 75 | 75 | 46 | 5 | 6.1 | 2 | 2.4 | 3 | 3.3 | 0.167 | 0.3 | 85 | 90 | 80 | |
| | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3.3 | 0.167 | 0.3 | 87 | 90 | 80 | |
| | | | | | | | | | 10 | 11 | 2 | 2.4 | 3 | 3.3 | 0.167 | 0.3 | 87 | 90 | 80 | |
| | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 3 | 3.3 | 0.167 | 0.3 | 98 | 100 | 108 | |
| | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3.3 | 0.167 | 0.3 | 102 | 125 | 111 | |
| | | | | | | | | | 10 | 11 | 2 | 2.4 | 3 | 3.3 | 0.167 | 0.3 | 105 | 125 | 113 | |

LEGEND

- FLA - Full Load Amps
- IFM - Indoor (Evaporator) Fan Motor
- LRA - Locked Rotor Amps
- MCA - Minimum Circuit Amps
- MOCP - Maximum Overcurrent Protection
- NEC - National Electrical Code
- OFM - Outdoor (Condenser) Fan Motor
- RLA - Rated Load Amps

* Fuse or circuit breaker.

† 208/230 v 75-kW Electric Heat units must use dual - point wiring. The main table lists the branch circuit values for the refrigeration part of the system. See separate tables for the branch circuit values for the electric heat and values for a feeder circuit for both branch circuits.

See General Notes for Electrical Data Tables on page 61.

Electrical Data - 50PM16 - 28 EnergyX Without Optional Unit Powered Convenience Outlet, with HACR Breaker, with Economizer (CONT)

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | | | ELECTRIC HEAT | | | IFM | | | ERV SUPPLY | | | ERV EXHAUST | | | ERV WHEEL | | POWER SUPPLY | | DISCONNECT SIZE | | |
|-----------|-----------------|---------------|-----|------------|-----|-------|-----|----------|----|---------------|----|-----|-----|----------|-----|------------|----------|-----|-------------|----------|-----|-----------|-----|--------------|---------|-----------------|---------|------|
| | | Min | Max | No. 1 | | No. 2 | | FLA (ea) | KW | FLA | Hp | FLA | Hp | FLA (ea) | Qty | Hp | FLA (ea) | Qty | Hp | FLA (ea) | Qty | Hp | FLA | Hp | FLA | | MCA | MOCP |
| | | | | RLA | LRA | RLA | LRA | | | | | | | | | | | | | | | | | | | | | |
| 16 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 180/180 | 200/200 | 179/207 | |
| 20 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 180/180 | 200/200 | 179/207 | |
| 24 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 180/180 | 200/200 | 179/207 | |
| 28 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 180/180 | 200/200 | 179/207 | |

† Electric Heat Branch Circuit for 50PM16 – 28 unit 208/230/240v with 75 – kW Electric Heat

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | | | ELECTRIC HEAT | | | IFM | | | ERV SUPPLY | | | ERV EXHAUST | | | ERV WHEEL | | POWER SUPPLY | | DISCONNECT SIZE | | | |
|-----------|-----------------|---------------|-----|------------|-----|-------|-----|----------|-------|---------------|-----|-----------|-----|----------|----------|------------|----------|----------|-------------|----------|----------|-----------|----------|--------------|----------|-----------------|---------|---------|------|
| | | Min | Max | No. 1 | | No. 2 | | FLA (ea) | KW | FLA | Hp | FLA | Qty | Hp | FLA (ea) | Qty | Hp | FLA (ea) | Qty | Hp | FLA (ea) | Qty | Hp | FLA | Hp | | FLA | MCA | MOCP |
| | | | | RLA | LRA | RLA | LRA | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 208/230-3-60 | 125 | 253 | 25 | 164 | 25 | 164 | 1.5 | 56/75 | 156/180 | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 3 | 3 | 8.85/8.0 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 231/231 | 250/250 | 231/254 | |
| 20 | 208/230-3-60 | 187 | 253 | 33.5 | 225 | 29.6 | 164 | 1.5 | 56/75 | 156/180 | 3.7 | 10.6/9.6 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 3 | 3 | 8.85/8.0 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 231/231 | 250/250 | 231/254 | |
| 24 | 208/230-3-60 | 187 | 253 | 40 | 239 | 33.5 | 225 | 1.5 | 56/75 | 156/180 | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 3 | 3 | 8.85/8.0 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 238/238 | 250/250 | 238/260 | |
| 28 | 208/230-3-60 | 187 | 253 | 48.1 | 245 | 48.1 | 245 | 1.5 | 56/75 | 156/180 | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 3 | 3 | 8.85/8.0 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 238/238 | 250/250 | 238/260 | |
| | | | | | | | | | | | 10 | 30.8/28 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 3 | 3 | 8.85/8.0 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 254/254 | 300/300 | 254/275 | |

LEGEND

- FLA – Full Load Amps
- IFM – Indoor (Evaporator) Fan Motor
- LRA – Locked Rotor Amps
- MCA – Minimum Circuit Amps
- MOCP – Maximum Overcurrent Protection
- NEC – National Electrical Code
- OFM – Outdoor (Condenser) Fan Motor
- RLA – Rated Load Amps

† Electric Heat Branch Circuit for 50PM16 – 28, 208/230/240v EnergyX unit without Optional Powered Conv Outlet with HACR Breaker, with economizer and 75 – kW Electric Heat
See General Notes for Electrical Data Tables on page 61.



Electrical Data - 50PM16 - 28 Energy X Unit with Optional Unit Powered Convenience Outlet, with HACR, with Economizer

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | OFM | | ELECTRIC HEAT † | | IFM | | ERV SUPPLY | | ERV EXHAUST | | ERV WHEEL | | POWER SUPPLY † | | DISCONNECT SIZE † | |
|-----------|-----------------|---------------|-----|------------|-----|-------|-------|------|------|-----------------|---------|----------|-----------|------------|----------|-------------|----------|-----------|---------|----------------|---------|-------------------|---------|
| | | Min | Max | RLA | LRA | No. 1 | No. 2 | RLA | LRA | Qty | Hp | FLA (ea) | FLA (ea) | Qty | Hp | FLA (ea) | FLA (ea) | Hp | FLA | MCA | MOCP | | |
| 16 | 208/230-3-60 | 187 | 253 | 25 | 164 | 164 | 1.5 | 4 | 0.25 | 19/25 | 52/60 | 3.7 | 10.9/9.6 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 0.560/6 | 112/112 | 125/125 | 122/117 | |
| | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 0.560/6 | 118/118 | 125/125 | 129/123 | |
| | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 0.560/6 | 126/126 | 150/150 | 137/131 | |
| | | | | | | | | | | | | 3.7 | 10.9/9.6 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 0.560/6 | 182/182 | 150/150 | 122/121 | |
| | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 0.560/6 | 139/139 | 150/150 | 129/128 | |
| | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 0.560/6 | 148/148 | 150/150 | 137/136 | |
| | 460-3-60 | 414 | 506 | 12.8 | 100 | 0.7 | 50 | 60 | 4 | 0.25 | 56/75 † | 156/180 | 3.7 | 10.9/9.6 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 0.560/6 | 200/200 | 200/200 | 184/197 |
| | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 0.560/6 | 200/200 | 200/200 | 177/190 |
| | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 0.560/6 | 209/209 | 225/225 | 193/205 |
| | | | | | | | | | | | | | 3.7 | 10.9/9.6 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 0.560/6 | 112/112 | 125/125 | 122/117 |
| | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 0.560/6 | 118/118 | 125/125 | 129/123 |
| | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 0.560/6 | 126/126 | 150/150 | 137/131 |
| 20 | 208/230-3-60 | 187 | 253 | 33.5 | 225 | 1.5 | 4 | 0.25 | 78 | 75 | 90 | 3.7 | 10.9/9.6 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 0.560/6 | 106 | 125 | 111 | |
| | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 0.560/6 | 127/127 | 150/150 | 137/132 | |
| | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 0.560/6 | 133/133 | 150/150 | 144/138 | |
| | | | | | | | | | | | | 3.7 | 10.9/9.6 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 0.560/6 | 141/141 | 150/150 | 152/146 | |
| | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 0.560/6 | 148/148 | 150/150 | 160/153 | |
| | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 0.560/6 | 132/132 | 150/150 | 137/132 | |
| | 460-3-60 | 414 | 506 | 17.7 | 114 | 0.7 | 25 | 30 | 4 | 0.25 | 19/25 | 52/60 | 3.7 | 10.9/9.6 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 0.560/6 | 63 | 80 | 67 |
| | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 0.560/6 | 66 | 80 | 71 |
| | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 0.560/6 | 69 | 80 | 75 |
| | | | | | | | | | | | | | 3.7 | 10.9/9.6 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 0.560/6 | 72 | 80 | 78 |
| | | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 0.560/6 | 67 | 80 | 67 |
| | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 0.560/6 | 70 | 80 | 71 |

See General Notes for Electrical Data Tables on page 61.

Electrical Data - 50PM16 - 28 EnergyX Unit with Optional Unit Powered Convenience Outlet, with HACR, with Economizer (CONT)

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | ELECTRIC HEAT † | | IFM | | ERV SUPPLY | | ERV EXHAUST | | ERV WHEEL | | POWER SUPPLY † | DISCONNECT SIZE † | | | |
|-----------|-----------------|---------------|-----|------------|-----|------|-------|-----------------|------|-----|-------|------------|-----|-------------|-----------|-----------|----------|----------------|-------------------|-------|---------|---------|
| | | Min | Max | RLA | RLA | RLA | No. 2 | Qty | Hp | FLA | FLA | FLA (ea) | Qty | Hp | FLA (ea) | Hp | FLA | | | MCA | MOCP | |
| 20 | 575-3-60 | 518 | 633 | 13 | 80 | 11 | 78 | 4 | 0.25 | 0.7 | 24.8 | 48.3 | 78 | 5 | 6.1 | 2 | 2.4 | 3 | 3.3 | 0.167 | 52 | 60 |
| | | | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3.3 | 0.167 | 55 | 60 |
| | | | | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 3 | 3.3 | 0.167 | 57 | 60 |
| | | | | | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 3 | 3.3 | 0.167 | 57 | 60 |
| | | | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3.3 | 0.167 | 61 | 70 |
| | | | | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 3 | 3.3 | 0.167 | 63 | 70 |
| | | | | | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 3 | 3.3 | 0.167 | 85 | 90 |
| | | | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3.3 | 0.167 | 88 | 90 |
| | | | | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 3 | 3.3 | 0.167 | 91 | 100 |
| | | | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3.3 | 0.167 | 102 | 125 |
| 24 | 460-3-60 | 187 | 253 | 40 | 239 | 33.5 | 225 | 6 | 0.25 | 1.5 | 38/50 | 56/75 † | 75 | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 163/163 | 200/200 |
| | | | | | | | | | | | | | | 3.7 | 10.9/9.6 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 163/163 | 200/200 |
| | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 163/163 | 200/200 |
| | | | | | | | | | | | | | | 10 | 30.8/28 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 163/163 | 200/200 |
| | | | | | | | | | | | | | | 3.7 | 10.9/9.6 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 163/163 | 200/200 |
| | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 163/163 | 200/200 |
| | | | | | | | | | | | | | | 10 | 30.8/28 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 163/163 | 200/200 |
| | | | | | | | | | | | | | | 3.7 | 10.9/9.6 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 163/163 | 200/200 |
| | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 163/163 | 200/200 |
| | | | | | | | | | | | | | | 10 | 30.8/28 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 163/163 | 200/200 |
| 24 | 460-3-60 | 414 | 506 | 19.5 | 125 | 17.7 | 114 | 6 | 0.25 | 0.7 | 25 | 56/75 † | 75 | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 163/163 | 200/200 |
| | | | | | | | | | | | | | | 3.7 | 10.9/9.6 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 163/163 | 200/200 |
| | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 163/163 | 200/200 |
| | | | | | | | | | | | | | | 10 | 30.8/28 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 163/163 | 200/200 |
| | | | | | | | | | | | | | | 3.7 | 10.9/9.6 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 163/163 | 200/200 |
| | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 163/163 | 200/200 |
| | | | | | | | | | | | | | | 10 | 30.8/28 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 163/163 | 200/200 |
| | | | | | | | | | | | | | | 3.7 | 10.9/9.6 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 163/163 | 200/200 |
| | | | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 163/163 | 200/200 |
| | | | | | | | | | | | | | | 10 | 30.8/28 | 2 | 7.08/6.4 | 3 | 8.85/8.0 | 0.167 | 163/163 | 200/200 |
| 24 | 575-3-60 | 518 | 633 | 16.6 | 80 | 13 | 80 | 6 | 0.25 | 0.7 | 24.8 | 48.3 | 78 | 5 | 6.1 | 2 | 2.4 | 3 | 3.3 | 0.167 | 60 | 70 |
| | | | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3.3 | 0.167 | 63 | 70 |
| | | | | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 3 | 3.3 | 0.167 | 65 | 80 |
| | | | | | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 3 | 3.3 | 0.167 | 65 | 80 |
| | | | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3.3 | 0.167 | 67 | 70 |
| | | | | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 3 | 3.3 | 0.167 | 69 | 80 |
| | | | | | | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 3 | 3.3 | 0.167 | 85 | 90 |
| | | | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3.3 | 0.167 | 88 | 90 |
| | | | | | | | | | | | | | | 10 | 11 | 2 | 2.4 | 3 | 3.3 | 0.167 | 91 | 100 |
| | | | | | | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3.3 | 0.167 | 102 | 125 |

See General Notes for Electrical Data Tables on page 61.



50PM

Electrical Data - 50PM16 - 28 EnergyX Unit with Optional Unit Powered Convenience Outlet, with HACR, with Economizer (CONT)

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | | | ELECTRIC HEAT † | | IFM | | ERV SUPPLY | | ERV EXHAUST | | | ERV WHEEL | | POWER SUPPLY † | | DISCONNECT SIZE † |
|-----------|-----------------|---------------|------|------------|------|------|----------|-------|----------|-----------------|---------|----------|-----------|------------|----------|-------------|----------|----------|-----------|----------|----------------|---------|-------------------|
| | | Min | Max | RLA | RLA | LRA | RLA | LRA | No. 2 | Qty | Hp | FLA (ea) | FLA (ea) | FLA (ea) | FLA (ea) | FLA (ea) | FLA (ea) | FLA (ea) | MCA | MOCP | FLA | FLA | |
| 28 | 208/230-3-Ø | 187 | 253 | 48.1 | 48.1 | 245 | 245 | 6 | 0.25 | 1.5 | - | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 173/173 | 200/200 | 185/180 |
| | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 181/181 | 225/225 | 194/188 |
| | | | | | | | | | | | | 10 | 30.8/28 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 187/187 | 225/225 | 202/195 |
| | | | | | | | | | | | | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 173/173 | 200/200 | 185/180 |
| | | | | | | | | | | | | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 181/181 | 225/225 | 194/188 |
| | 10 | 30.8/28 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 187/187 | 225/225 | 202/195 | | | | | | | | | | | |
| | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 173/173 | 200/200 | 185/180 | | | | | | | | | | | |
| | 7.5 | 24.2/22 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 181/181 | 225/225 | 194/188 | | | | | | | | | | | |
| | 10 | 30.8/28 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 187/187 | 225/225 | 202/195 | | | | | | | | | | | |
| | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 173/173 | 200/200 | 185/180 | | | | | | | | | | | |
| 460-3-Ø | 506 | 22.5 | 22.5 | 125 | 125 | 6 | 0.25 | 0.7 | - | 5 | 7.6 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 81 | 100 | 87 | | |
| | | | | | | | | | | 7.5 | 11 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 84 | 100 | 91 | | |
| | | | | | | | | | | 10 | 14 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 87 | 100 | 94 | | |
| | | | | | | | | | | 5 | 7.6 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 81 | 100 | 87 | | |
| | | | | | | | | | | 7.5 | 11 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 84 | 100 | 91 | | |
| | | | | | | | | | | 10 | 14 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 87 | 100 | 94 | | |
| | | | | | | | | | | 5 | 7.6 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 81 | 100 | 87 | | |
| | | | | | | | | | | 7.5 | 11 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 84 | 100 | 91 | | |
| | | | | | | | | | | 10 | 14 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 87 | 100 | 94 | | |
| | | | | | | | | | | 5 | 7.6 | 2 | 3.2 | 3 | 3 | 4 | 0.167 | 0.35 | 81 | 100 | 87 | | |
| 575-3-Ø | 633 | 18 | 18 | 100 | 6 | 0.25 | 0.7 | - | 5 | 6.1 | 2 | 2.4 | 3 | 3 | 3 | 4 | 0.167 | 0.35 | 66 | 80 | 71 | | |
| | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | | | | | | | | 10 | 11 | 2 | 2.4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | | | | | | | | 10 | 11 | 2 | 2.4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | | | | | | | | 7.5 | 9 | 2 | 2.4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | | | | | | | | 10 | 11 | 2 | 2.4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | | | | | | | | 5 | 6.1 | 2 | 2.4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

LEGEND

- FLA - Full Load Amps
- IFM - Indoor (Evaporator) Fan Motor
- LRA - Locked Rotor Amps
- MCA - Minimum Circuit Amps
- MOCP - Maximum Overcurrent Protection
- NEC - National Electrical Code
- OFM - Outdoor (Condenser) Fan Motor
- RLA - Rated Load Amps

* Fuse or circuit breaker.
 † 208/230 v 75-kW Electric Heat units must use dual – point wiring. The main table lists the branch circuit values for the refrigeration part of the system. See separate tables for the branch circuit values for the electric heat and values for a feeder circuit for both branch circuits.
 See General Notes for Electrical Data Tables on page 61.

Electrical Data - 50PM16 - 28 EnergyX Unit with Optional Unit Powered Convenience Outlet, with HACR, with Economizer (CONT)

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | | | ELECTRIC HEAT | | | IFIM | | | ERV SUPPLY | | | ERV EXHAUST | | | ERV WHEEL | | POWER SUPPLY | | DISCONNECT SIZE | | |
|-----------|-----------------|---------------|-----|------------|-----|-----|-------|----------|----|---------------|----------|----|------|----|----------|------------|----|----------|-------------|----------|----|-----------|----|--------------|---------|-----------------|------|-----|
| | | Min | Max | No. 1 | | | No. 2 | | | kW | FLA (ea) | Hp | FLA | Hp | FLA (ea) | Qty | Hp | FLA (ea) | Hp | FLA (ea) | Hp | FLA | Hp | FLA | MCA | | MOCP | FLA |
| | | | | RLA | LRA | RLA | LRA | FLA (ea) | Hp | | | | | | | | | | | | | | | | | | | |
| 16 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 180/180 | 200/200 | 179/207 | | |
| 20 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 180/180 | 200/200 | 179/207 | | |
| 24 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 180/180 | 200/200 | 179/207 | | |
| 28 | 208/230-3-60 | 187 | 253 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 180/180 | 200/200 | 179/207 | | |

† Electric Heat Branch Circuit for 50PM16 – 28 unit 208/230/240v with 75 – kW Electric Heat

| UNIT SIZE | NOMINAL VOLTAGE | VOLTAGE RANGE | | COMPRESSOR | | | | | | ELECTRIC HEAT | | | IFIM | | | ERV SUPPLY | | | ERV EXHAUST | | | ERV WHEEL | | POWER SUPPLY | | DISCONNECT SIZE | | |
|-----------|-----------------|---------------|-----|------------|-----|------|-------|----------|-------|---------------|----------|-----------|------|----------|----------|------------|----------|----------|-------------|----------|---------|-----------|-------|--------------|---------|-----------------|---------|-----|
| | | Min | Max | No. 1 | | | No. 2 | | | kW | FLA (ea) | Hp | FLA | Hp | FLA (ea) | Qty | Hp | FLA (ea) | Hp | FLA (ea) | Hp | FLA | Hp | FLA | MCA | | MOCP | FLA |
| | | | | RLA | LRA | RLA | LRA | FLA (ea) | Hp | | | | | | | | | | | | | | | | | | | |
| 16 | 208/230-3-60 | 187 | 253 | 25 | 164 | 25 | 164 | 1.5 | 56/75 | 156/180 | 3.7 | 10.9/9.6 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 237/237 | 250/250 | 237/237 | 0.167 | 0.66/0.6 | 237/237 | 250/250 | 237/259 | |
| 20 | 208/230-3-60 | 187 | 253 | 33.5 | 225 | 29.6 | 164 | 1.5 | 56/75 | 156/180 | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 237/237 | 250/250 | 237/237 | 0.167 | 0.66/0.6 | 237/237 | 250/250 | 244/266 | |
| 24 | 208/230-3-60 | 187 | 253 | 40 | 239 | 33.5 | 225 | 1.5 | 56/75 | 156/180 | 3.7 | 10.9/9.6 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 237/237 | 250/250 | 237/237 | 0.167 | 0.66/0.6 | 237/237 | 250/250 | 244/266 | |
| 28 | 208/230-3-60 | 187 | 253 | 48.1 | 245 | 48.1 | 245 | 1.5 | 56/75 | 156/180 | 5 | 16.7/15.2 | 2 | 7.08/6.4 | 3 | 3 | 8.85/8.0 | 0.167 | 0.66/0.6 | 237/237 | 250/250 | 237/237 | 0.167 | 0.66/0.6 | 237/237 | 250/250 | 244/266 | |

LEGEND

- FLA – Full Load Amps
- IFM – Indoor (Evaporator) Fan Motor
- LRA – Locked Rotor Amps
- MCA – Minimum Circuit Amps
- MOCP – Maximum Overcurrent Protection
- NEC – National Electrical Code
- OFM – Outdoor (Condenser) Fan Motor
- RLA – Rated Load Amps

† Electric Heat Branch Circuit for 50PM16 – 28, 208/230/240v EnergyX unit with Optional Powered Conv Outlet with HACR Breaker, with economizer and 75 – kW Electric Heat

General Notes for Electrical Data Tables

- *Fuse or HACR circuit breaker
- † 208/230 v 75 – kW Electric Heat units must use dual – point wiring. The main table lists the branch circuit values for the refrigeration part of the system. The following two tables list the branch circuit values for the electric heat and values for a feeder circuit for both branch circuits.

NOTES:

1. In compliance with NEC requirements for multimotor and combination load equipment (refer to NEC Articles 430 and 440), the overcurrent protective device for the unit shall be fuse or HACR breaker.
2. **Unbalanced 3-Phase Supply Voltage**
Never operate a motor where a phase imbalance in supply voltage is greater than 2%. Use the following formula to determine the percentage of voltage imbalance.

$$\% \text{ Voltage Imbalance} = 100 \times \frac{\text{max voltage deviation from average voltage}}{\text{average voltage}}$$

LEGEND

- FLA – Full Load Amps
- HACR – Heating, Air Conditioning and Refrigeration Indoor (Evaporator) Fan Motor
- IFM – Indoor (Evaporator) Fan Motor
- LRA – Locked Rotor Amps
- MCA – Minimum Circuit Amps
- MOCP – Maximum Overcurrent Protection
- NEC – National Electrical Code
- OFM – Outdoor (Condenser) Fan Motor
- RLA – Rated Load Amps



50PM

50PM