



**WEATHERMAKER®**  
**50A2,A3,A4,A5020-060**  
**Single Package Electric Cooling Rooftop Units**  
**with Electric Heat Option, COMFORTLINK™ Controls**  
**and PURON® (R-410A) Refrigerant**

# Installation Instructions

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## 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 cleaning coils and filters and 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.

### **WARNING**

Before performing service or maintenance operations on unit, turn off main power switch to unit. Electrical shock could cause personal injury.

### **CAUTION**

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. If service equipment is not rated for Puron refrigerant, equipment damage or personal injury may result.

### **WARNING**

1. Improper installation, adjustment, alteration, service, or maintenance can cause property damage, personal injury, or loss of life. Refer to the User's Information Manual provided with this unit for more details.
2. Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

## INSTALLATION

### Step 1 — Provide Unit Support

#### **CAUTION**

1. All panels must be in place when rigging or damage to unit may occur.
2. Unit is not designed for handling by fork truck. Damage to unit may occur.

**ROOF CURB** — For vertical discharge units, assemble or install accessory roof curb in accordance with instructions shipped with this accessory. See Fig. 1-4. Install insulation, cant strips, roofing, and counter flashing as shown. Ductwork can be installed to roof curb before unit is set in place. Curb should be level. This is necessary to permit unit drain to function properly. Unit leveling tolerance is shown in Fig. 1-4. 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.

**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. 1-4. Improperly applied gasket can also result in air leaks and poor unit performance.

**ALTERNATE UNIT SUPPORT** — When the preferred curb or slab mount cannot be used, support unit with sleepers on perimeter, using unit curb support area. If sleepers cannot be used, support long sides of unit (refer to Fig. 5-11) with a minimum number of 4-in. x 4-in. pads spaced as follows: 50A2,A3,A4,A5020-035 units require 3 pads on each side; 50A2,A3,A4,A5040-050 units require 4 pads on each side; 50A2,A3,A4,A5060 units require 6 pads on each side. Unit may sag if supported by corners only.

**Step 2 — Rig and Place Unit** — Inspect unit for transportation damage. See Tables 1-6 for physical data and specifications. File any claim with transportation agency.

Do not drop unit; keep upright. Use spreader bars over unit to prevent sling or cable damage. This unit must be handled with a crane and can not be handled by a fork truck. Level by using unit frame as a reference; leveling tolerance is shown in Fig. 1-4. See Fig. 12 for additional information. Unit operating weight is shown in Tables 2-5.

NOTE: On retrofit jobs, ductwork may be attached to the old unit instead of a roof curb. Be careful not to damage ductwork when removing old unit. Attach existing ductwork to roof curb instead of unit.

Four lifting lugs are provided on the unit base rails as shown in Fig. 5-11. Refer to rigging instructions on unit.

**POSITIONING** — Maintain clearance, per Fig. 5-11, 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 unit air inlets near exhaust vents or other sources of contaminated air.

Although unit is weatherproof, guard against water from higher level runoff and overhangs.

**ROOF MOUNT** — Check building codes for weight distribution requirements. See Fig. 12. Unit operating weight is shown in Tables 2-5.

**Step 3 — Field Fabricate Ductwork** — Secure all ducts to building structure. Use flexible duct connectors between unit and ducts as required. Insulate and weatherproof all external ductwork, joints, and roof openings with counter flashing and mastic in accordance with applicable codes.

NOTE: Due to width of the horizontal supply and return ductwork, provisions should be made for servicing of the outdoor air filters (i.e., catwalk over ductwork).

Ducts passing through an unconditioned space must be insulated and covered with a vapor barrier. Outlet grilles must not lie directly below unit discharge. The return duct must have a 90-degree elbow before opening into the building space if the unit is equipped with power exhaust.

To attach ductwork to roof curb, insert duct approximately 10 to 11 in. up into roof curb. Connect ductwork to 14-gage

roof curb material with sheet metal screws driven from inside the duct.

Follow AMCA (Air Movement and Control Association) guidelines relating to ductwork connections to the unit. These guidelines recommend a minimum 2½ equivalent duct diameters of straight duct connected to supply air inlet and outlet openings before any transitions, fittings, dampers, etc. Failure to adhere to these guidelines may result in system effects which can impact the unit's ability to achieve published performance.

**⚠ WARNING**

For vertical supply and return units, tools or parts could drop into ductwork and cause an injury. Install a 90-degree elbow turn in the supply and 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.

**Step 4 — Make Unit Duct Connections**

**50A2 AND A3 UNITS** — Unit is shipped for thru-the-bottom duct connections. Field-fabricated ductwork should be attached to the roof curb. Supply and return duct dimensions are shown in Fig. 5-7. Air distribution is shown in Fig. 13. Refer to installation instructions shipped with roof curb for more information.

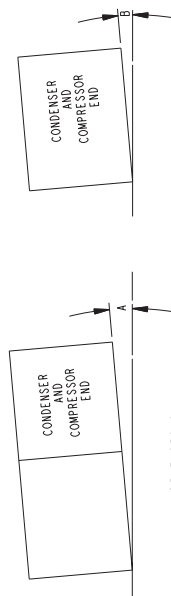
**50A4 AND A5 UNITS** — Remove shipping covers from supply and return air openings. Attach field-supplied ductwork to unit. Connect to the unit with a single duct for all supply openings and with a single duct for all return openings. Splitting of the airflow into branch ducts should not be done at the unit. Sufficient duct length should be used prior to branching to ensure the air temperatures are well mixed within the ductwork. See Fig. 8-10 for duct opening dimensions. Secure all ducts to building structure. Air distribution is shown in Fig. 8-10 and Fig. 14.

Install accessory barometric relief or power exhaust in the field-fabricated return ductwork. Refer to Step 8 — Position Power Exhaust/Barometric Relief Damper Hood section on page 43 for more information.

*Instructions continued on page 18.*

- NOTES:
1. Unless otherwise specified, all dimensions are to outside of part.
  2. Roof curb accessory CRFRCURB035AU is shipped disassembled.
  3. All roof curb parts are to be 14 ga. galvanized steel.
  4. Units with electric heat must be installed with a 90° elbow on the supply duct prior to any supply take offs or branches.
  5. Dimensions in [ ] are in millimeters. All other dimensions are in inches.

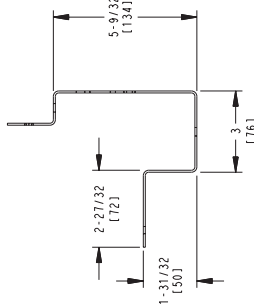
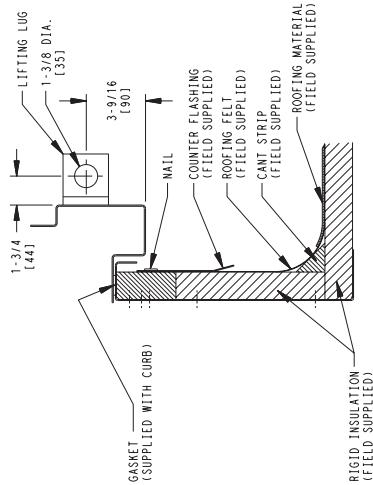
NOTE: TO PREVENT STANDING WATER IN THE DRAIN PAN OF THE INDOOR SECTION AND THE HEAT EXCHANGERS UNIT CAN ONLY BE PITCHED AS SHOWN.



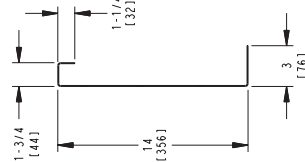
DIMENSIONS  
(DEGREES AND INCHES)

| DEG. | A   |    | B    |     |
|------|-----|----|------|-----|
|      | IN. | mm | DEG. | IN. |
| 1.0  | 2.9 | 73 | .50  | .75 |
|      |     |    |      | 1.9 |

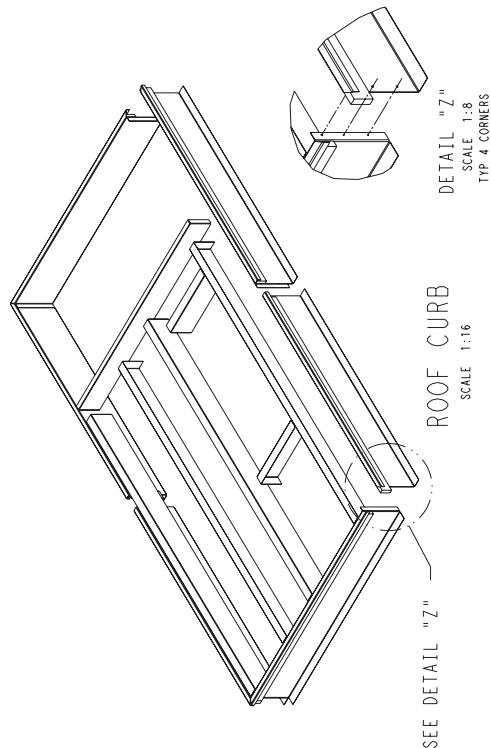
UNIT LEVELING TOLERANCES  
\*FROM EDGE OF UNIT TO HORIZONTAL



BASE RAIL CROSS SECTION  
TYP 2 SIDES



ROOF CURB CROSS SECTION  
TYP 4 SIDES



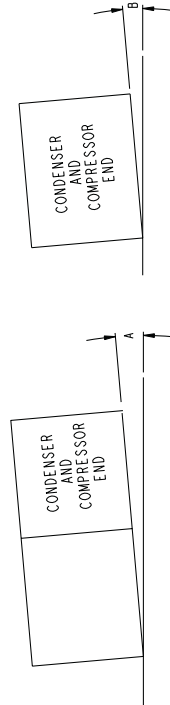
SEE DETAIL "Z"  
SCALE 1:16

DETAIL "Z"  
SCALE 1:8  
TYP 4 CORNERS

Fig. 1 — Roof Curb — 50A2,A3020-035 Units

- NOTES:
1. Unless otherwise specified, all dimensions are to outside of part.
  2. Roof curb accessory CRRF-CURB006A00 is shipped disassembled.
  3. Roof curb parts are to be 14 ga. galvanized steel.
  4. Units with electric heat must be installed with a 90° elbow on the supply duct prior to any supply take offs or branches.
  5. Dimensions in [ ] are in millimeters. All other dimensions are in inches.

NOTE:  
TO PREVENT STANDING WATER IN THE DRAIN PAN OF THE  
INDOOR SECTION, AND THE HEAT EXCHANGERS  
UNIT CAN ONLY BE PITCHED AS SHOWN.



#### DIMENSIONS (DEGREES AND INCHES)

| A    |     |    | B    |     |    |
|------|-----|----|------|-----|----|
| DEG. | IN. | mm | DEG. | IN. | mm |
| 1.0  | 2.9 | 73 | .50  | .75 | 19 |

#### UNIT LEVELING TOLERANCES \*FROM EDGE OF UNIT TO HORIZONTAL

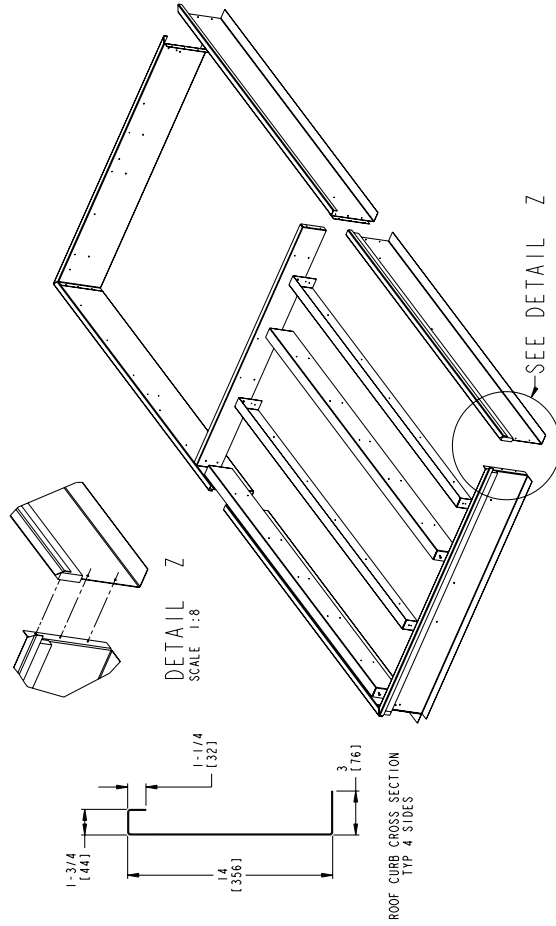
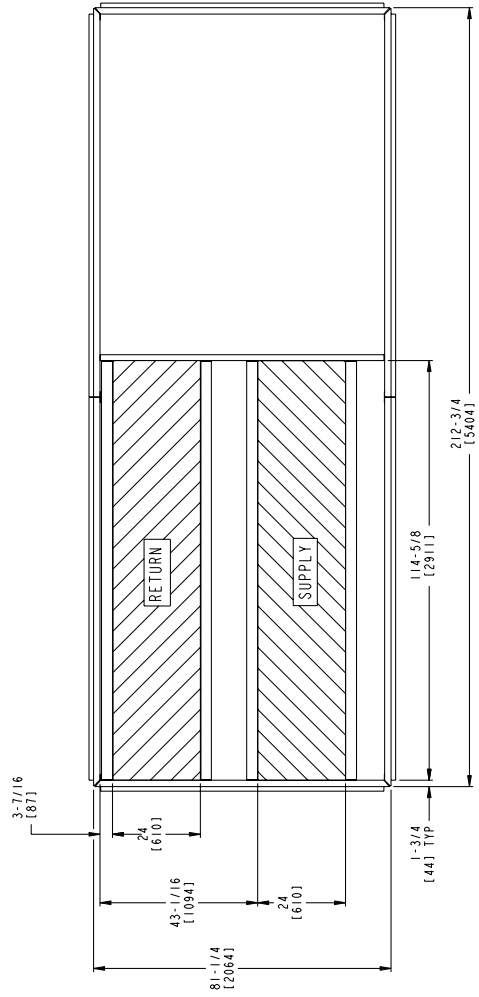
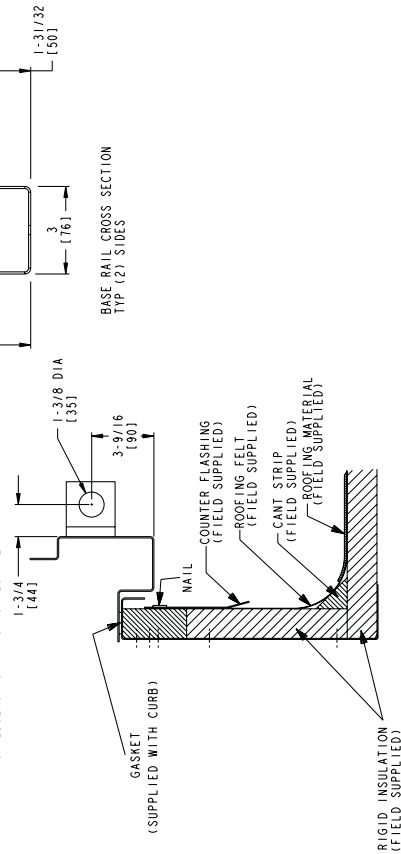


Fig. 2 — Roof Curb — 50A2,A3040-050 Units

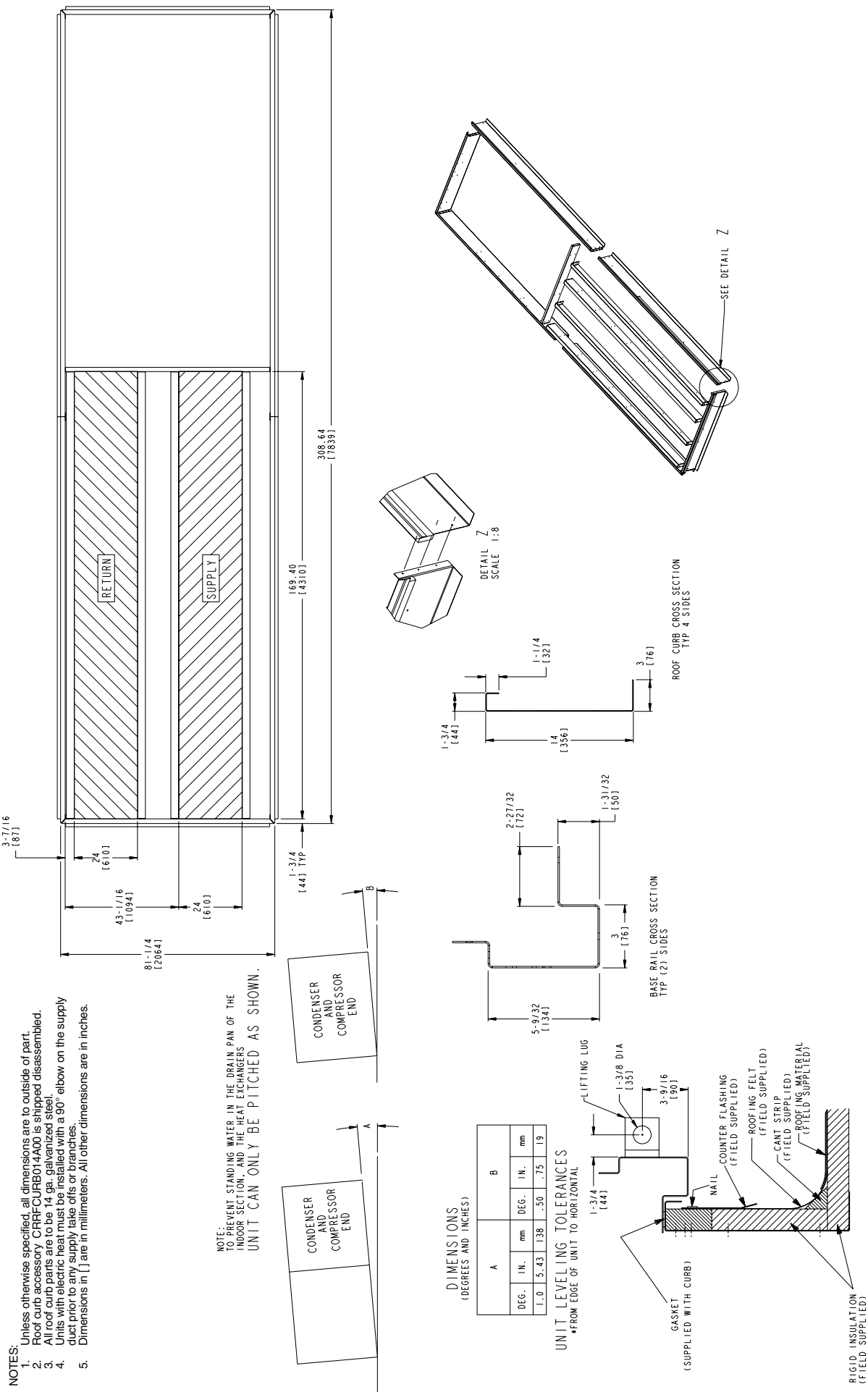
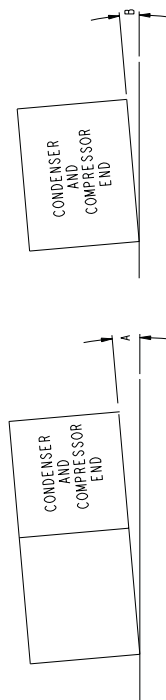


Fig. 3 — Roof Curb — 50A2,A3060 Units

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NOTE:  
TO PREVENT STANDING WATER IN THE DRAIN PAN OF THE  
INDOOR SECTION, AND THE HEAT EXCHANGERS  
UNIT CAN ONLY BE PITCHED AS SHOWN.

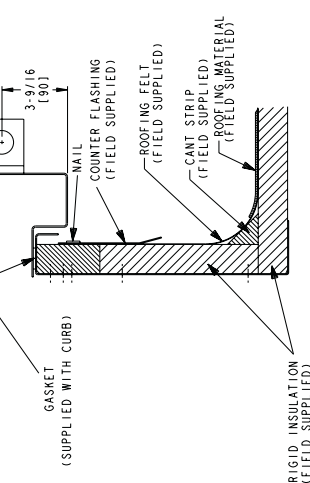
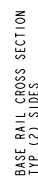
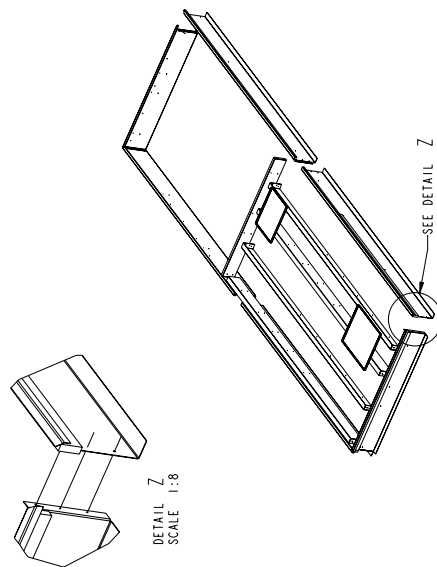
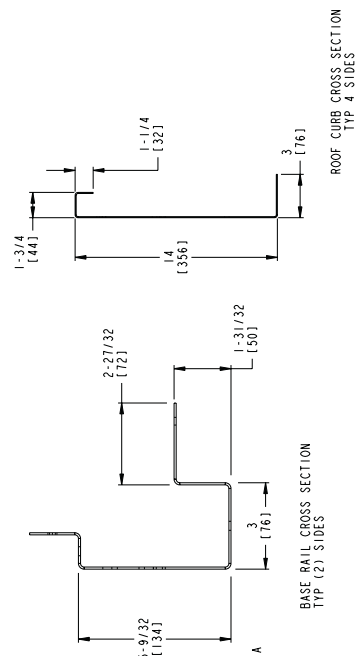


DIMENSIONS  
(DEGREES AND INCHES)

| A    |      |     | B    |     |    |
|------|------|-----|------|-----|----|
| DEG. | IN.  | mm  | DEG. | IN. | mm |
| 1.0  | 5.43 | 138 | .50  | .75 | 19 |

UNIT LEVELING TOLERANCES  
• FROM EDGE OF UNIT TO HORIZONTAL

FROM EDGE OF UNIT TO HORIZONTAL

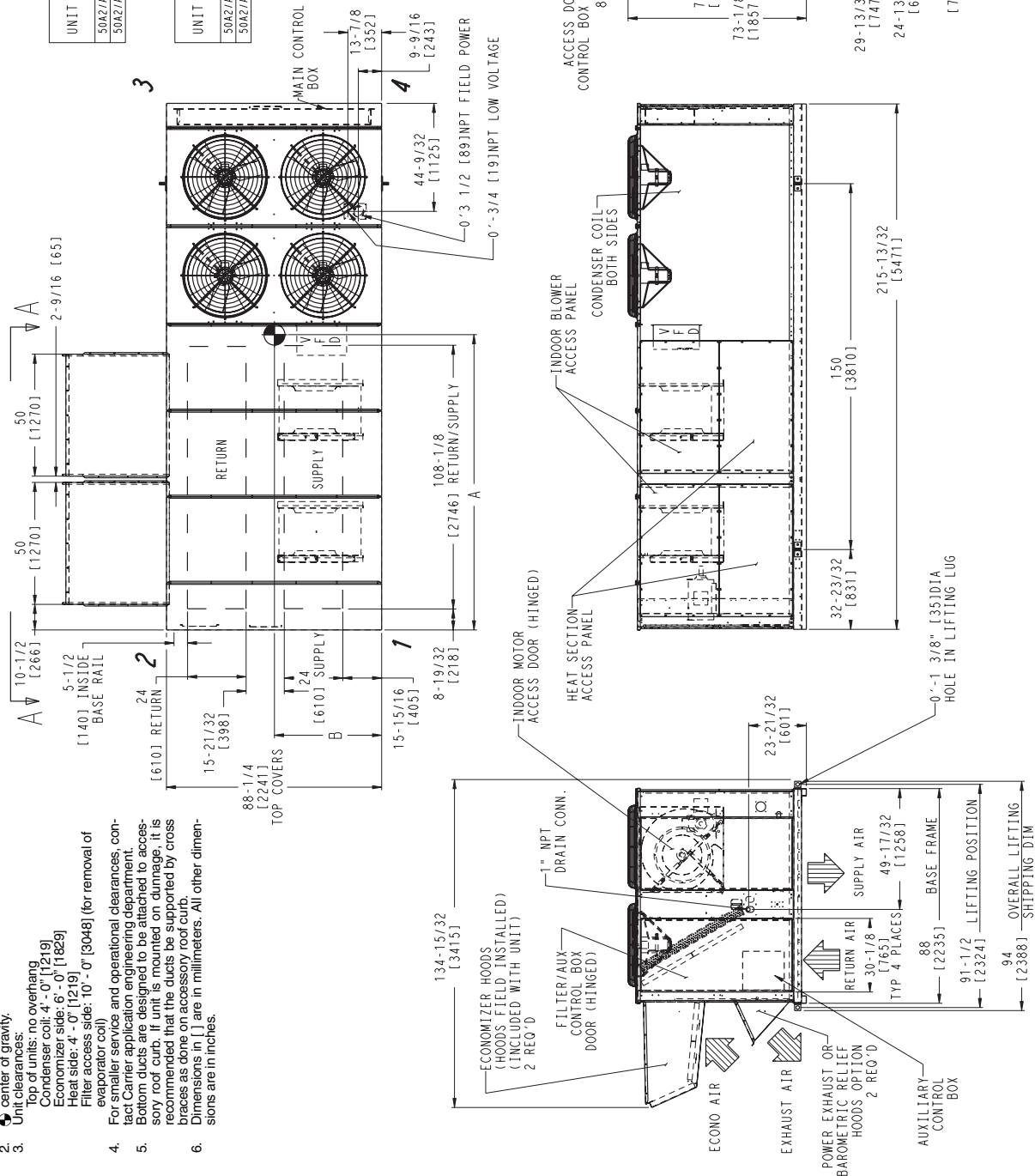


**Fig. 4 — Reduced Supply Duct Opening — Roof Curb — 50A2,A3060 Units**



- NOTES:
- Weights include economizer.
  - Center of gravity.
  - Unit clearances:

- Top of units: no overhang.  
Condenser coil: 4" - 0" [1219]  
Economizer side: 6" - 0" [1829]  
Heat side: 4" - 0" [1219]  
Filter access side: 10" - 0" [3048] (for removal of evaporator coil)
- For smaller service and operational clearances, contact Carrier application engineering department.
- Bottom ducts are designed to be attached to accessory roof curb. If unit is mounted on downgaze, it is recommended that the ducts be supported by cross braces as done on accessory roof curb.
- Dimensions in [ ] are in millimeters. All other dimensions are in inches.

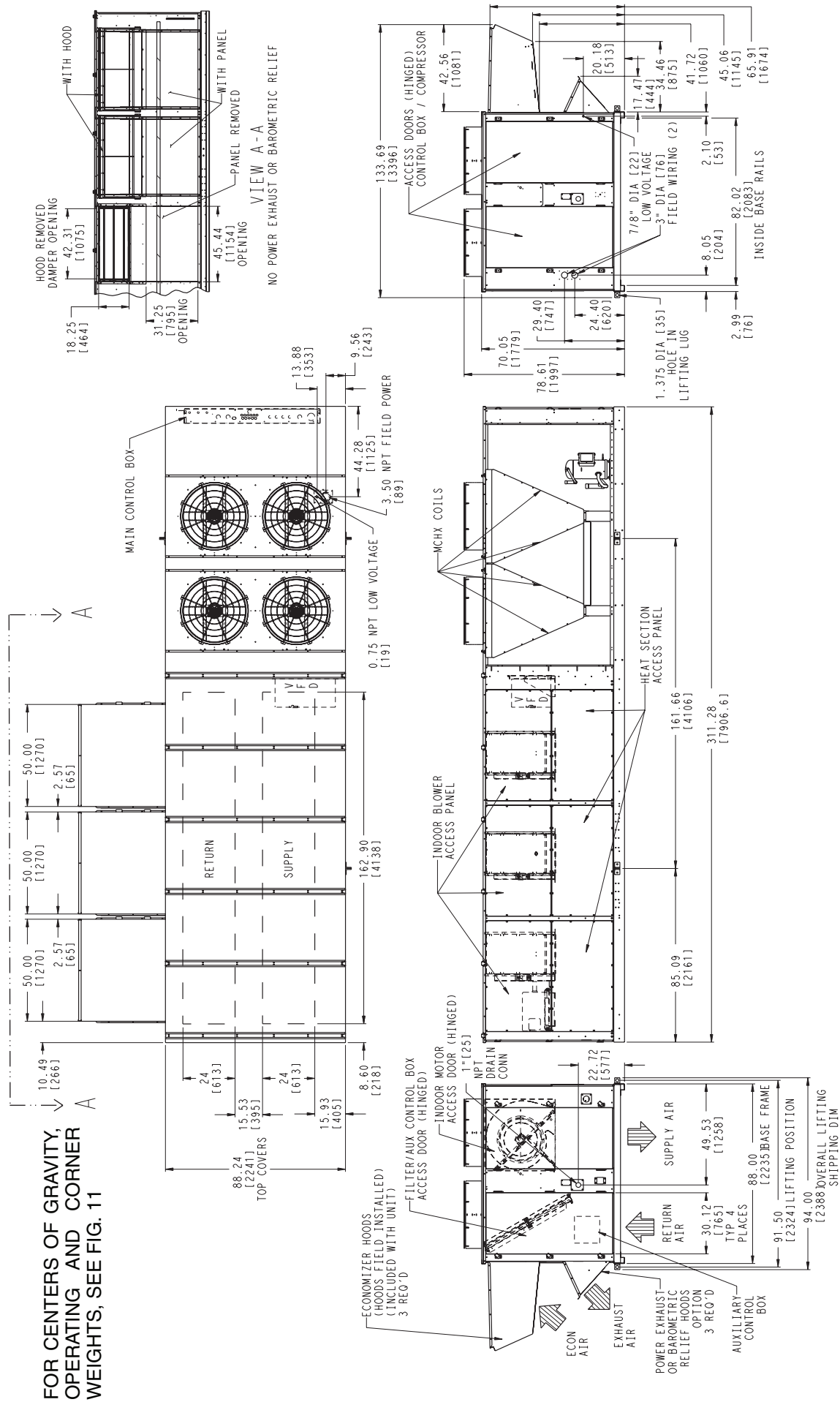


| UNIT SIZE   | OPERATING WEIGHT *<br>LBS | A<br>FT/IN  | B<br>FT/IN | CORNER WEIGHT (LBS) |
|-------------|---------------------------|-------------|------------|---------------------|
| 50A2/A3/040 | 5564                      | 10 - 1 3/4" | 3 - 5 3/8" | 1276 1137 1481 1671 |
| 50A2/A3/050 | 5744                      | 11 - 1/2"   | 3 - 5 3/4" | 1338 1214 1509 1684 |

| UNIT SIZE   | OPERATING WEIGHT *<br>kg | A<br>MM | B<br>MM | CORNER WEIGHT (kg) |
|-------------|--------------------------|---------|---------|--------------------|
| 50A2/A3/040 | 2524                     | 3093    | 1052    | 579 516 672 758    |
| 50A2/A3/050 | 2606                     | 3035    | 1059    | 607 551 684 764    |

\*Operating weight includes largest indoor fan motor, microchannel heat exchanger, modulating power exhaust (variable air volume units), and variable frequency drive (variable air volume units).

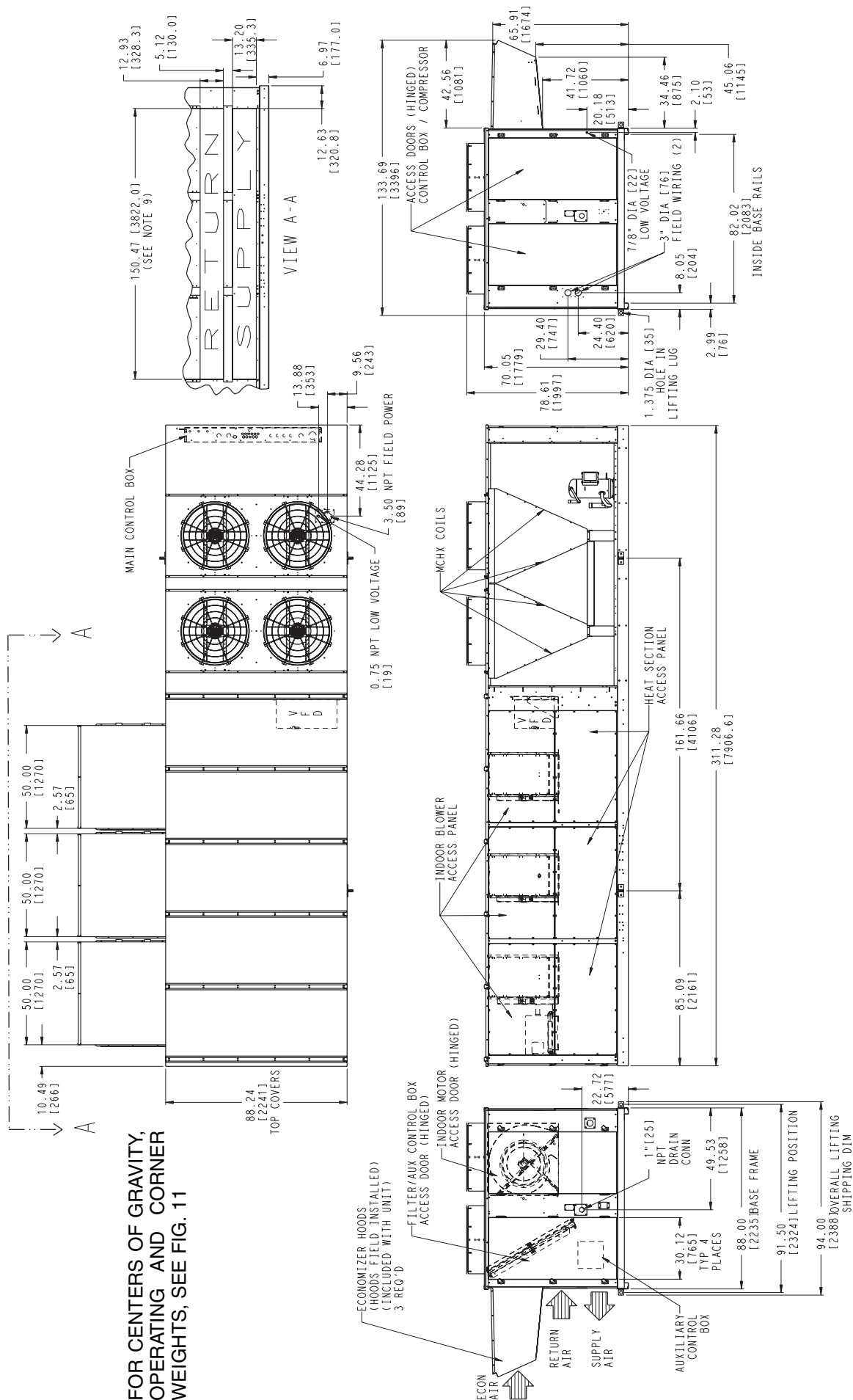
Fig. 6 — Base Unit Dimensions — 50A2, A3040-050



**Fig. 7 — Base Unit Dimensions — 50A2,A3060**







**Fig. 10 — Base Unit Dimensions — 50A4,A5060**

| BASE UNIT WEIGHTS (SEE NOTE 6 )<br>LBS. (Kg) |  | OPERATING<br>WEIGHT*<br>(lb) | CENTER OF GRAVITY<br>(ft - in.) |            | CORNER WEIGHTS (lb) |      |      |      |
|----------------------------------------------|--|------------------------------|---------------------------------|------------|---------------------|------|------|------|
|                                              |  |                              | A                               | B          | 1                   | 2    | 3    | 4    |
| 50A2/A3                                      |  | 8311                         | 15 - 5                          | 3 - 7 3/8  | 1710                | 1663 | 2433 | 2504 |
| 50A4/A5                                      |  | 8526                         | 15 - 8 1/2                      | 3 - 11 1/8 | 1613                | 2078 | 2484 | 2351 |

| UNIT SIZE   |  | OPERATING<br>WEIGHT*<br>(kg) | CENTER OF GRAVITY<br>(mm) |      | CORNER WEIGHTS<br>(kg) |     |      |      |
|-------------|--|------------------------------|---------------------------|------|------------------------|-----|------|------|
|             |  |                              | A                         | B    | 1                      | 2   | 3    | 4    |
| 50A2,A3 060 |  | 3770                         | 4699                      | 1101 | 776                    | 755 | 1104 | 1136 |
| 50A4,A5 060 |  | 3868                         | 4788                      | 1197 | 732                    | 942 | 1127 | 1066 |

\*Operating weight includes largest indoor fan motor, microchannel heat exchanger, modulating power exhaust (variable air volume units), and variable frequency drive (variable air volume units).

| OPTIONS / ACCESSORIES (SEE NOTE 6 ) |  | OPERATING<br>WEIGHT*<br>(lb) | OPERATING<br>WEIGHT*<br>(kg) |
|-------------------------------------|--|------------------------------|------------------------------|
|                                     |  |                              |                              |
| BAROMETRIC RELIEF                   |  | 450 (204)                    |                              |
| NON MOD. POWER EXHAUST              |  | 675 (306)                    |                              |
| MOD. POWER EXHAUST                  |  | 725 (329)                    |                              |
| ELECTRIC HEAT                       |  | 165 (75)                     |                              |
| CU TU/AL FIN COND COIL              |  | 26 (12)                      |                              |
| CU TU/CU FIN COND COIL              |  | 677 (307)                    |                              |

\*Operating weight includes largest indoor fan motor, microchannel heat exchanger, modulating power exhaust (variable air volume units), and variable frequency drive (variable air volume units).

- NOTES:
- Weights include economizer or outdoor air damper.
  - Center of gravity.
  - Unit clearances:  
Top of units: no overhang  
Condenser coil: 4'-0" [1219]  
Economizer side: 6'-0" [1829]  
Heat side: 4'-0" [1219]  
Filter access side: 10'-0" [3048] (for removal of evaporator coil)
  - For smaller service and operational clearances, contact Carrier application engineering department.
  - Bottom ducts are designed to be attached to accessory roof curb. If unit is mounted on unbraced, it is recommended that the ducts be supported by cross braces as shown on accessory roof curb.
  - Base unit weights include outdoor air floods and filters (indoor fan motor is not included). Add indoor fan motor, FLOPs, and accessories for total operating weight.
  - VAV motor weights include indoor motor, VFD, VFD transducer, and associated wiring.
  - Dimensions in [ ] are in millimeters. All other dimensions are in inches.
  - For side-supply/return applications, a single return and supply ductwork connection is recommended for covering all three return and all three supply openings. The entire area around the duct openings is available for a 1.5" ductflange attachment.

|                     | CV MOTOR WEIGHTS<br>LBS. (Kg) |                        | VAV MOTOR WEIGHTS<br>LBS. (Kg) (SEE NOTE 7) |                        |
|---------------------|-------------------------------|------------------------|---------------------------------------------|------------------------|
|                     | HIGH<br>EFFC.Y IFM            | PREMIUM<br>EFFC.Y IFM  | HIGH<br>EFFC.Y IFM                          | PREMIUM<br>EFFC.Y IFM  |
| 25 HP<br>(18.65 Kw) | 230/460<br>575                | 240 (109)<br>309 (140) | 375 (170)<br>444 (201)                      | 454 (206)<br>490 (222) |
| 30 HP<br>(22.38 Kw) | 230/460<br>575                | 283 (128)<br>359 (163) | 418 (190)<br>494 (224)                      | 507 (230)<br>545 (247) |
| 40 HP<br>(29.84 Kw) | 230/460<br>575                | 372 (169)<br>410 (186) | 507 (230)<br>545 (247)                      |                        |

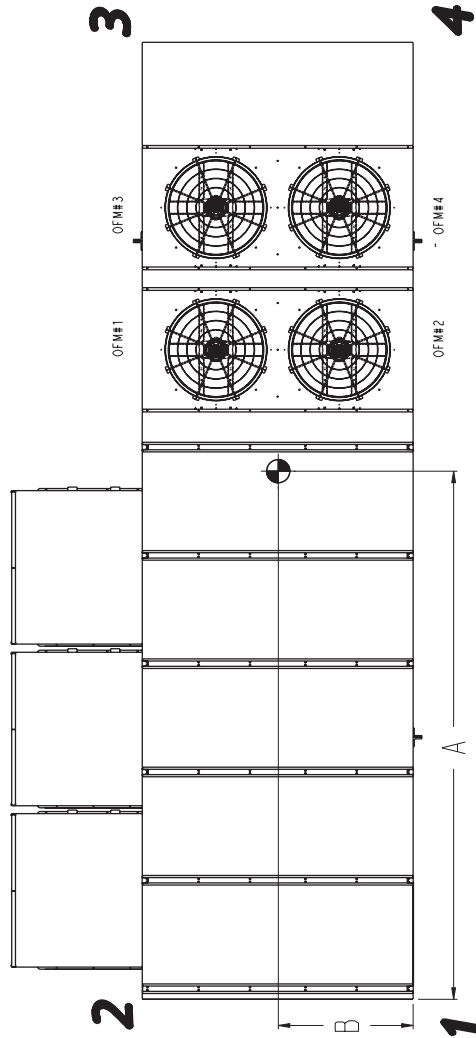


Fig. 11 — Center of Gravity and Weights — 50A2,A3,A4,A5060

**Table 1 — Physical Data — 50A2,A3,A4,A5 Units**

| UNIT 50A2,A3,A4,A5                                                                                                                                                                                                                                                                                                                                                                                                       | 020                                                                                                                                                                      | 025                                                                                                                                                                        | 027                                                                                                                                                                       | 030                                                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NOMINAL CAPACITY (tons)                                                                                                                                                                                                                                                                                                                                                                                                  | 20                                                                                                                                                                       | 25                                                                                                                                                                         | 27                                                                                                                                                                        | 30                                                                                                                                                                        |
| BASE UNIT OPERATING WEIGHT (lb)                                                                                                                                                                                                                                                                                                                                                                                          | See Unit Weights Table                                                                                                                                                   |                                                                                                                                                                            |                                                                                                                                                                           |                                                                                                                                                                           |
| COMPRESSOR<br>Quantity ... Type (Ckt 1/Ckt 2)<br>Number of Refrigerant Circuits<br>Oil                                                                                                                                                                                                                                                                                                                                   | 2 ... ZP67/1...ZP90<br>2<br>Precharged                                                                                                                                   | 2 ... ZP90/1...ZP90<br>2<br>Precharged                                                                                                                                     | 2 ... ZP90/1...ZP90<br>2<br>Precharged                                                                                                                                    | 2...ZP72, 2...ZP72<br>2<br>Precharged                                                                                                                                     |
| REFRIGERANT TYPE<br>Operating Charge (lb-oz)<br>Circuit 1<br>Circuit 2                                                                                                                                                                                                                                                                                                                                                   | R-410A                                                                                                                                                                   |                                                                                                                                                                            |                                                                                                                                                                           |                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | 14-14<br>11-13                                                                                                                                                           | 20-6<br>12-13                                                                                                                                                              | 20-6<br>12-13                                                                                                                                                             | 15-2<br>15-5                                                                                                                                                              |
| MCHX CONDENSER*<br>Quantity<br>Total Face Area (sq ft)                                                                                                                                                                                                                                                                                                                                                                   | 1<br>32.9                                                                                                                                                                | 1<br>32.9                                                                                                                                                                  | 1<br>32.9                                                                                                                                                                 | 1<br>32.9                                                                                                                                                                 |
| CONDENSER FAN<br>Nominal Cfm<br>Quantity... Diameter (in.)<br>Motor Hp                                                                                                                                                                                                                                                                                                                                                   | Propeller Type                                                                                                                                                           |                                                                                                                                                                            |                                                                                                                                                                           |                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | 19,500<br>2 ... 30<br>1                                                                                                                                                  | 19,500<br>2 ... 30<br>1                                                                                                                                                    | 19,500<br>2 ... 30<br>1                                                                                                                                                   | 19,500<br>2 ... 30<br>1                                                                                                                                                   |
| EVAPORATOR COIL<br>Tube Size (in.)<br>Rows ... Fins/in.<br>Total Face Area (sq ft)                                                                                                                                                                                                                                                                                                                                       | Cross-Hatched Copper Tubes, Aluminum Plate Fins with Intertwined Circuits                                                                                                |                                                                                                                                                                            |                                                                                                                                                                           |                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | <sup>3</sup> / <sub>8</sub><br>3 ... 15<br>31.7                                                                                                                          | <sup>3</sup> / <sub>8</sub><br>4 ... 14<br>31.7                                                                                                                            | <sup>3</sup> / <sub>8</sub><br>4 ... 15<br>31.7                                                                                                                           | <sup>3</sup> / <sub>8</sub><br>4 ... 15<br>31.7                                                                                                                           |
| EVAPORATOR FAN<br>Quantity ... Size (in.)<br>Type Drive<br>Nominal Cfm<br>Motor Hp<br>Motor Frame Size<br>Motor Bearing Type<br>Maximum Allowable Rpm<br>Motor Pulley Pitch Diameter<br>Nominal Motor Shaft Diameter (in.)<br>Fan Pulley Pitch Diameter (in.)<br>Nominal Fan Shaft Diameter (in.)<br>Belt Quantity<br>Belt Type<br>Belt Length (in.)<br>Pulley Center Line Distance (in.)<br>Factory Speed Setting (rpm) | Centrifugal Type                                                                                                                                                         |                                                                                                                                                                            |                                                                                                                                                                           |                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | 2 ... 20 X 15<br>Belt<br>8,000<br>5<br>184T<br>10<br>215T<br>15<br>254T<br>4.8<br>1 1/8<br>12.4<br>4.4<br>1 3/8<br>8.6<br>1 15/16<br>1<br>BX56<br>56<br>16.0-18.7<br>717 | 2 ... 20 X 15<br>Belt<br>10,000<br>5<br>184T<br>10<br>215T<br>15<br>254T<br>4.8<br>1 1/8<br>12.4<br>6.1<br>1 3/8<br>11.1<br>1 15/16<br>1<br>BX56<br>56<br>15.6-18.4<br>717 | 2 ... 20 X 15<br>Belt<br>11,000<br>10<br>215T<br>15<br>254T<br>20<br>256T<br>4.4<br>1 3/8<br>9.4<br>4.9<br>1 5/8<br>8.1<br>1 15/16<br>2<br>BX50<br>50<br>15.6-18.4<br>848 | 2 ... 20 X 15<br>Belt<br>12,000<br>10<br>215T<br>15<br>254T<br>20<br>256T<br>4.4<br>1 3/8<br>9.0<br>5.7<br>1 5/8<br>9.1<br>1 15/16<br>2<br>BX50<br>50<br>15.0-17.9<br>856 |
| HIGH-PRESSURE SWITCH (psig)<br>Cutout<br>Reset (Auto.)                                                                                                                                                                                                                                                                                                                                                                   | 650<br>500                                                                                                                                                               | 650<br>500                                                                                                                                                                 | 650<br>500                                                                                                                                                                | 650<br>500                                                                                                                                                                |
| MIXED-AIR FILTERS<br>Quantity ... Size (in.) Standard<br>Pleated                                                                                                                                                                                                                                                                                                                                                         | 10 ... 20 x 24 x 2<br>5 ... 20 x 20 x 4<br>5 ... 20 x 24 x 4                                                                                                             | 10 ... 20 x 24 x 2<br>5 ... 20 x 20 x 4<br>5 ... 20 x 24 x 4                                                                                                               | 10 ... 20 x 24 x 2<br>5 ... 20 x 20 x 4<br>5 ... 20 x 24 x 4                                                                                                              | 10 ... 20 x 24 x 2<br>5 ... 20 x 20 x 4<br>5 ... 20 x 24 x 4                                                                                                              |
| OUTDOOR-AIR FILTERS<br>Quantity...Size (in.)                                                                                                                                                                                                                                                                                                                                                                             | 8...16 x 25 x 2<br>4...20 x 25 x 2                                                                                                                                       |                                                                                                                                                                            |                                                                                                                                                                           |                                                                                                                                                                           |
| POWER EXHAUST<br>Motor, Quantity...Hp<br>Fan, Diameter...Width (in.)                                                                                                                                                                                                                                                                                                                                                     | Direct Drive, Single-Phase Motors (Factory-Wired for High Speed Operation), Forward-Curved Fan Wheels<br>with Backdraft Dampers on Each Fan Housing<br>4...1<br>11 x 10  |                                                                                                                                                                            |                                                                                                                                                                           |                                                                                                                                                                           |

LEGEND

**MCHX** — Microchannel Heat Exchanger

\*Sizes 020-027: Circuit 1 uses the lower portion of condenser coil, Circuit 2 uses the upper portion.  
 Sizes 030 and 035: Circuit 1 uses the upper portion of condenser coil, Circuit 2 uses the lower portion.

Sizes 040 and 050: Circuit 1 uses the left condenser coil, Circuit 2 the right.  
 Size 060: Circuit A uses the two MCHX coils near the bulkhead, Circuit B uses the two MCHX coils near the control box.

**Table 1 — Physical Data — 50A2,A3,A4,A5 Units (cont)**

| UNIT 50A2,A3,A4,A5                                                                                                                                                                                                                                                                                                                                                                                                       | 035                                                                                                                                                                                                                                         | 040                                                                                                                                                                                                                                               | 050                                                                                                                                                                                                                                               | 060                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NOMINAL CAPACITY (tons)                                                                                                                                                                                                                                                                                                                                                                                                  | 35                                                                                                                                                                                                                                          | 40                                                                                                                                                                                                                                                | 50                                                                                                                                                                                                                                                | 60                                                                                                                                                                                                                              |
| BASE UNIT OPERATING WEIGHT (lb)                                                                                                                                                                                                                                                                                                                                                                                          | See Unit Weights Table                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                 |
| COMPRESSOR<br>Quantity ... Type (Ckt 1/Ckt 2)<br>Number of Refrigerant Circuits<br>Oil                                                                                                                                                                                                                                                                                                                                   | 2 ... ZP67/2...ZP103<br>2<br>Precharged                                                                                                                                                                                                     | 2...ZP103/2...ZP103<br>2<br>Precharged                                                                                                                                                                                                            | 2...ZP120/2...ZP120<br>2<br>Precharged                                                                                                                                                                                                            | 2...SM154/2...ZP154<br>2<br>Precharged                                                                                                                                                                                          |
| REFRIGERANT TYPE<br>Operating Charge (lb-oz)<br>Circuit 1<br>Circuit 2                                                                                                                                                                                                                                                                                                                                                   | R-410A                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | 22-0<br>30-11                                                                                                                                                                                                                               | 25-8<br>26-0                                                                                                                                                                                                                                      | 31-11<br>31-11                                                                                                                                                                                                                                    | 30-10<br>38-5                                                                                                                                                                                                                   |
| MCHX CONDENSER*<br>Quantity<br>Total Face Area (sq ft)                                                                                                                                                                                                                                                                                                                                                                   | 1<br>32.9                                                                                                                                                                                                                                   | 2<br>65.8                                                                                                                                                                                                                                         | 2<br>65.8                                                                                                                                                                                                                                         | 4<br>105.2                                                                                                                                                                                                                      |
| CONDENSER FAN<br>Nominal Cfm<br>Quantity... Diameter (in.)<br>Motor Hp                                                                                                                                                                                                                                                                                                                                                   | 19,500<br>2 ... 30<br>1                                                                                                                                                                                                                     | Propeller Type<br>32,000<br>4 ... 30<br>1                                                                                                                                                                                                         | 35,000<br>4 ... 30<br>1                                                                                                                                                                                                                           | Shrouded Axial Type<br>40,000<br>4...30.5<br>1                                                                                                                                                                                  |
| EVAPORATOR COIL<br>Tube Size (in.)<br>Rows ... Fins/in.<br>Total Face Area (sq ft)                                                                                                                                                                                                                                                                                                                                       | Cross-Hatched Copper Tubes, Aluminum Plate Fins with Intertwined Circuits                                                                                                                                                                   |                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | 1/2<br>6 ... 16<br>31.3                                                                                                                                                                                                                     | 1/2<br>4 ... 17<br>31.3                                                                                                                                                                                                                           | 1/2<br>6 ... 16<br>31.3                                                                                                                                                                                                                           | 1/2<br>4...17<br>48.1                                                                                                                                                                                                           |
| EVAPORATOR FAN<br>Quantity ... Size (in.)<br>Type Drive<br>Nominal Cfm<br>Motor Hp<br>Motor Frame Size<br>Motor Bearing Type<br>Maximum Allowable Rpm<br>Motor Pulley Pitch Diameter<br>Nominal Motor Shaft Diameter (in.)<br>Fan Pulley Pitch Diameter (in.)<br>Nominal Fan Shaft Diameter (in.)<br>Belt Quantity<br>Belt Type<br>Belt Length (in.)<br>Pulley Center Line Distance (in.)<br>Factory Speed Setting (rpm) | Centrifugal Type                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | 2 ... 20 X 15<br>Belt<br>14,000<br>15 20 25<br>254T 256T 284T<br>Ball<br>1300<br>5.1 5.7 6.2<br>1 5/8 1 5/8 1 7/8<br>8.7 8.7 8.7<br>1 15/16<br>2 2 2<br>5VX500 5VX530 5VX550<br>50 53 55<br>15.0-17.9 15.0-17.9 15.0-17.9<br>1025 1147 1247 | 2 ... 20 X 15<br>Belt<br>16,000<br>15 20 25<br>254T 256T 284T<br>Ball<br>1300<br>5.3 5.7 7.5<br>1 5/8 1 5/8 1 7/8<br>9.5 9.5 11.1<br>1 15/16<br>2 2 2<br>5VX530 5VX550 5VX590<br>53 55 59<br>15.0- 15.0- 14.6-<br>17.9 17.9 17.6<br>976 1050 1182 | 2 ... 20 X 15<br>Belt<br>18,000<br>20 25 30<br>256T 284T 286T<br>Ball<br>1300<br>5.7 6.2 6.7<br>1 5/8 1 7/8 1 7/8<br>9.5 9.5 9.5<br>1 15/16<br>2 2 2<br>5VX550 5VX570 5VX570<br>55 57 57<br>15.0- 14.6- 14.6-<br>17.9 17.6 17.6<br>1050 1142 1234 | 3 ... 20 X 15<br>Belt<br>24,000<br>25 30 40<br>284T 286T 324T<br>Ball<br>1200<br>5.3 5.9 6.5<br>1 7/8 1 7/8 2 1/8<br>9.1 9.5 9.5<br>1 15/16<br>3 3 3<br>5VX530 5VX550 5VX570<br>53 55 57<br>15.2- 14.7- 14.2-<br>1019 1087 1197 |
| HIGH-PRESSURE SWITCH (psig)<br>Cutout<br>Reset (Auto.)                                                                                                                                                                                                                                                                                                                                                                   | 650<br>500                                                                                                                                                                                                                                  | 650<br>500                                                                                                                                                                                                                                        | 650<br>500                                                                                                                                                                                                                                        | 650<br>500                                                                                                                                                                                                                      |
| MIXED-AIR FILTERS<br>Quantity ... Size (in.) Standard<br>Pleated                                                                                                                                                                                                                                                                                                                                                         | 10 ... 20 x 24 x 2<br>5 ... 20 x 20 x 4<br>5 ... 20 x 24 x 4                                                                                                                                                                                | 10 ... 20 x 24 x 2<br>5 ... 20 x 20 x 4<br>5 ... 20 x 24 x 4                                                                                                                                                                                      | 10 ... 20 x 24 x 2<br>5 ... 20 x 20 x 4<br>5 ... 20 x 24 x 4                                                                                                                                                                                      | 16...20 x 24 x 2<br>8...20 x 20 x 4<br>8...20 x 24 x 4                                                                                                                                                                          |
| OUTDOOR-AIR FILTERS<br>Quantity...Size (in.)                                                                                                                                                                                                                                                                                                                                                                             | 8...16 x 25 x 2<br>4...20 x 25 x 2                                                                                                                                                                                                          | 8...16 x 25 x 2<br>4...20 x 25 x 2                                                                                                                                                                                                                | 8...16 x 25 x 2<br>4...20 x 25 x 2                                                                                                                                                                                                                | 12...16 x 25 x 2<br>6...20 x 25 x 2                                                                                                                                                                                             |
| POWER EXHAUST<br>Motor, Quantity...Hp<br>Fan, Diameter...Width (in.)                                                                                                                                                                                                                                                                                                                                                     | Direct Drive, Single-Phase Motors (Factory-Wired for High Speed Operation), Forward-Curved Fan Wheels with Backdraft Dampers on Each Fan Housing                                                                                            |                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                          | 4...1<br>11 x 10                                                                                                                                                                                                                            | 4...1<br>11 x 10                                                                                                                                                                                                                                  | 4...1<br>11 x 10                                                                                                                                                                                                                                  | 6...1<br>11 x 10                                                                                                                                                                                                                |

LEGEND

MCHX — Microchannel Heat Exchanger

\*Sizes 020-027: Circuit 1 uses the lower portion of condenser coil, Circuit 2 uses the upper portion.  
Sizes 030 and 035: Circuit 1 uses the upper portion of condenser coil, Circuit 2 uses the lower portion.

Sizes 040 and 050: Circuit 1 uses the left condenser coil, Circuit 2 the right.  
Size 060: Circuit A uses the two MCHX coils near the bulkhead, Circuit B uses the two MCHX coils near the control box.

**Table 2 — 50A2,A3,A4,A5 Base Unit Operating Weights (lb)**

| UNIT    | 020  | 025  | 027  | 030  | 035  | 040  | 050  | 060  |
|---------|------|------|------|------|------|------|------|------|
| 50A2,A3 | 3625 | 3761 | 3761 | 3792 | 4025 | 4455 | 4599 | 6826 |
| 50A4,A5 | 3703 | 3839 | 3839 | 3870 | 4218 | 4648 | 4792 | 7041 |

**Table 3 — 50A2,A3,A4,A5 Option And Accessory Weights (lb)**

| UNIT                                            | 020              | 025 | 027 | 030 | 035 | 040 | 050 | 060 |
|-------------------------------------------------|------------------|-----|-----|-----|-----|-----|-----|-----|
| Barometric Relief                               | 300              | 300 | 300 | 300 | 300 | 300 | 300 | 450 |
| Non-Modulating Power Exhaust                    | 450              | 450 | 450 | 450 | 450 | 450 | 450 | 675 |
| Modulating Power Exhaust                        | 500              | 500 | 500 | 500 | 500 | 500 | 500 | 725 |
| Electric Heat                                   | 110              | 110 | 110 | 110 | 110 | 110 | 110 | 165 |
| Cu Tube/Alum Fin Cond. Coil                     | 100              | 100 | 100 | 150 | 150 | 187 | 317 | 26  |
| Cu Tube/Cu Fin Cond. Coil                       | 263              | 263 | 263 | 370 | 370 | 512 | 751 | 677 |
| OA Hood Crate/Packaging<br>(Less Hoods' Weight) | 45               | 45  | 45  | 45  | 45  | 45  | 45  | 45  |
|                                                 | (Packaging Only) |     |     |     |     |     |     |     |
| Outdoor Air Hoods/Filters (included with unit)  | 170              | 170 | 170 | 170 | 170 | 170 | 170 | 255 |
| Hail Guards                                     | 73               | 73  | 73  | 73  | 73  | 146 | 146 | 219 |
| Roof Curb (14-in.)                              | 365              | 365 | 365 | 365 | 365 | 410 | 410 | 540 |

**Table 4 — Constant Volume Fan  
Motor Weights (lb)**

| MOTOR<br>HP | UNIT VOLTAGE | HIGH<br>EFFICIENCY<br>IFM | PREMIUM<br>EFFICIENCY<br>IFM |
|-------------|--------------|---------------------------|------------------------------|
| 5 HP        | 230/460      | 78                        | 94                           |
|             | 575          | 78                        | 92                           |
| 10 HP       | 230/460      | 118                       | 164                          |
|             | 575          | 118                       | 156                          |
| 15 HP       | 230/460      | 150                       | 217                          |
|             | 575          | 150                       | 220                          |
| 20 HP       | 230/460      | 212                       | 250                          |
|             | 575          | 212                       | 258                          |
| 25 HP       | 230/460      | 240                       | 309                          |
|             | 575          | 240                       | 319                          |
| 30 HP       | 230/460      | 283                       | 355                          |
|             | 575          | 283                       | 359                          |
| 40 HP       | 230/460      | 372                       | 415                          |
|             | 575          | 372                       | 410                          |

**Table 5 — Variable Air Volume Fan  
Motor Weights (lb)**

| MOTOR<br>HP | UNIT VOLTAGE | HIGH<br>EFFICIENCY<br>IFM | PREMIUM<br>EFFICIENCY<br>IFM |
|-------------|--------------|---------------------------|------------------------------|
| 5 HP        | 230/460      | 136                       | 152                          |
|             | 575          | 147                       | 161                          |
| 10 HP       | 230/460      | 187                       | 233                          |
|             | 575          | 187                       | 225                          |
| 15 HP       | 230/460      | 249                       | 316                          |
|             | 575          | 249                       | 319                          |
| 20 HP       | 230/460      | 347                       | 385                          |
|             | 575          | 311                       | 357                          |
| 25 HP       | 230/460      | 375                       | 444                          |
|             | 575          | 375                       | 454                          |
| 30 HP       | 230/460      | 418                       | 490                          |
|             | 575          | 418                       | 494                          |
| 40 HP       | 230/460      | 507                       | 550                          |
|             | 575          | 507                       | 545                          |

**LEGEND AND NOTES FOR TABLES 2-5**

**LEGEND**

|             |                            |
|-------------|----------------------------|
| <b>Cu</b>   | — Copper                   |
| <b>FIOP</b> | — Factory-Installed Option |
| <b>HP</b>   | — Horsepower               |
| <b>IFM</b>  | — Indoor Fan Motor         |
| <b>OA</b>   | — Outdoor Air              |
| <b>VAV</b>  | — Variable Air Volume      |
| <b>VFD</b>  | — Variable Frequency Drive |

- NOTES:**
1. Base unit weight includes outdoor-air hoods. Base unit weight does NOT include indoor-fan motor. ADD indoor-fan motor, FIOPs, and accessories for TOTAL operating weight.
  2. VAV Motor Weights include the indoor motor and the VFD, optional VFD bypass, VFD transducer and associated wiring.

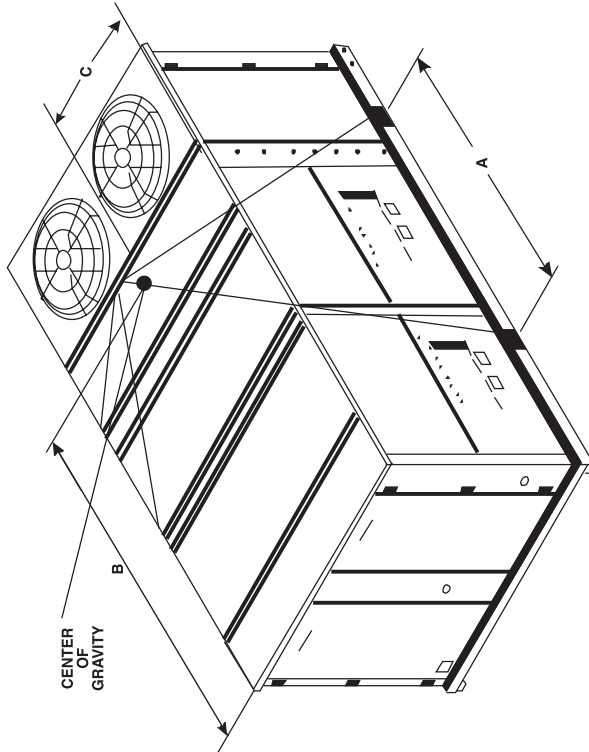
# **⚠ CAUTION - NOTICE TO RIGGERS:** **ALL PANELS MUST BE IN PLACE WHEN RIGGING.**

**NOTE:** Rig with four cables and spread with two 92 inch (2337 MM) spreader bars.  
 Maintain a distance of 74 inches (1880 MM) from top of unit to eyehook.

| MODEL        | WEIGHT |      | A      |      | B      |      | C      |      |
|--------------|--------|------|--------|------|--------|------|--------|------|
|              | LBS    | KGS  | INCHES | MM   | INCHES | MM   | INCHES | MM   |
| 50A2/A3 020  | 4599   | 2086 | 87.7   | 2227 | 98.0   | 2489 | 44.9   | 1141 |
| 48A2/A3D 020 | 4689   | 2127 | 87.7   | 2227 | 96.8   | 2460 | 44.5   | 1130 |
| 48A2/A3E 020 | 4769   | 2163 | 87.7   | 2227 | 96.3   | 2446 | 44.2   | 1122 |
| 50A4/A5 020  | 4677   | 2122 | 87.7   | 2227 | 94.2   | 2394 | 49.5   | 1257 |
| 48A4/A5D 020 | 4729   | 2145 | 87.7   | 2227 | 93.2   | 2368 | 49.1   | 1246 |
| 48A4/A5E 020 | 4809   | 2182 | 87.7   | 2227 | 92.8   | 2358 | 48.7   | 1237 |
| 50A2/A3 025  | 4735   | 2148 | 87.7   | 2227 | 98.5   | 2503 | 44.7   | 1135 |
| 48A2/A3D 025 | 4825   | 2189 | 87.7   | 2227 | 97.4   | 2474 | 44.3   | 1125 |
| 48A2/A3E 025 | 4905   | 2225 | 87.7   | 2227 | 96.9   | 2460 | 44.0   | 1117 |
| 50A4/A5 025  | 4813   | 2183 | 87.7   | 2227 | 94.9   | 2410 | 49.1   | 1248 |
| 48A4/A5D 025 | 4865   | 2207 | 87.7   | 2227 | 93.9   | 2385 | 48.7   | 1238 |
| 48A4/A5E 025 | 4945   | 2243 | 87.7   | 2227 | 93.5   | 2374 | 48.4   | 1229 |
| 50A2/A3 027  | 4801   | 2178 | 87.7   | 2227 | 97.2   | 2468 | 44.1   | 1120 |
| 48A2/A3D 027 | 4891   | 2219 | 87.7   | 2227 | 96.1   | 2440 | 43.7   | 1110 |
| 48A2/A3E 027 | 4971   | 2255 | 87.7   | 2227 | 95.6   | 2427 | 43.4   | 1102 |
| 50A4/A5 027  | 4879   | 2213 | 87.7   | 2227 | 93.6   | 2377 | 48.5   | 1232 |
| 48A4/A5D 027 | 4931   | 2237 | 87.7   | 2227 | 92.6   | 2353 | 48.1   | 1221 |
| 48A4/A5E 027 | 5011   | 2273 | 87.7   | 2227 | 92.2   | 2343 | 47.7   | 1213 |
| 50A2/A3 030  | 4832   | 2192 | 87.7   | 2227 | 95.2   | 2417 | 44.4   | 1128 |
| 48A2/A3D 030 | 4922   | 2233 | 87.7   | 2227 | 94.1   | 2389 | 44.0   | 1118 |
| 48A2/A3E 030 | 5002   | 2269 | 87.7   | 2227 | 93.6   | 2376 | 43.7   | 1110 |
| 50A4/A5 030  | 4910   | 2227 | 87.7   | 2227 | 91.6   | 2327 | 48.8   | 1238 |
| 48A4/A5D 030 | 4962   | 2251 | 87.7   | 2227 | 90.7   | 2303 | 48.3   | 1228 |
| 48A4/A5E 030 | 5042   | 2287 | 87.7   | 2227 | 90.3   | 2293 | 48.0   | 1219 |
| 50A2/A3 035  | 5134   | 2329 | 87.7   | 2227 | 95.9   | 2435 | 41.5   | 1053 |
| 48A2/A3D 035 | 5339   | 2422 | 87.7   | 2227 | 94.8   | 2408 | 41.0   | 1043 |
| 48A2/A3E 035 | 5499   | 2494 | 87.7   | 2227 | 94.2   | 2393 | 40.7   | 1035 |
| 50A4/A5 035  | 5327   | 2416 | 87.7   | 2227 | 92.7   | 2353 | 45.7   | 1161 |
| 48A4/A5D 035 | 5379   | 2440 | 87.7   | 2227 | 91.7   | 2329 | 45.3   | 1151 |
| 48A4/A5E 035 | 5539   | 2513 | 87.7   | 2227 | 91.2   | 2317 | 44.9   | 1141 |
| 50A2/A3 040  | 5564   | 2524 | 87.7   | 2227 | 121.8  | 3093 | 41     | 1052 |
| 48A2/A3D 040 | 5769   | 2617 | 87.7   | 2227 | 120.3  | 3056 | 41     | 1041 |
| 48A2/A3E 040 | 5929   | 2690 | 87.7   | 2227 | 118.8  | 3018 | 41     | 1034 |
| 50A4/A5 040  | 5757   | 2612 | 87.7   | 2227 | 116.5  | 2958 | 45.4   | 1152 |
| 48A4/A5D 040 | 5809   | 2635 | 87.7   | 2227 | 115.1  | 2924 | 44.9   | 1142 |
| 48A4/A5E 040 | 5969   | 2708 | 87.7   | 2227 | 113.9  | 2893 | 44.6   | 1132 |
| 50A2/A3 050  | 5744   | 2606 | 87.7   | 2227 | 119.5  | 3035 | 42     | 1059 |
| 48A2/A3D 050 | 5949   | 2699 | 87.7   | 2227 | 118.1  | 2999 | 41     | 1048 |
| 48A2/A3E 050 | 6109   | 2771 | 87.7   | 2227 | 116.6  | 2962 | 41     | 1040 |
| 50A4/A5 050  | 5937   | 2693 | 87.7   | 2227 | 114.3  | 2904 | 45.5   | 1156 |
| 48A4/A5D 050 | 5989   | 2717 | 87.7   | 2227 | 112.9  | 2868 | 45.1   | 1145 |
| 48A4/A5E 050 | 6149   | 2789 | 87.7   | 2227 | 111.7  | 2837 | 44.7   | 1135 |
| 50A2/A3 060  | 8311   | 3770 | 161.7  | 4106 | 184.9  | 4698 | 43     | 1102 |
| 48A2/A3D 060 | 8386   | 3804 | 161.7  | 4106 | 177.6  | 4511 | 41     | 1049 |
| 48A2/A3E 060 | 8626   | 3913 | 161.7  | 4106 | 170.4  | 4329 | 39     | 996  |
| 50A4/A5 060  | 8526   | 3868 | 161.7  | 4106 | 176.5  | 4484 | 47.1   | 1196 |
| 48A4/A5D 060 | 8426   | 3822 | 161.7  | 4106 | 169.6  | 4309 | 45.2   | 1149 |
| 48A4/A5E 060 | 8676   | 3936 | 161.7  | 4106 | 163.3  | 4147 | 43.2   | 1097 |

The weight distribution and center of gravity information are representative of a standard unit and include the impact of factory installed economizer, largest IFM motor & VFD, modulating power exhaust (both factory installed and field installed options), and electric heat (on 50A only).

50EJ500305 REV. 3.0



**NOTE:**  
 Add 312 lbs (142 kg) for export crating. (020-035 units)  
 Add 346 lbs (157 kg) for export crating. (040-050 units)  
 Add 588 lbs (266 kg) for export crating. (060 units)  
 Add the weights shown below for round tube plate fin coils

| Unit Size                          | 020-027          | 030-035          | 040              | 050              | 060              |
|------------------------------------|------------------|------------------|------------------|------------------|------------------|
| Copper Tube/Aluminum Fin Cond Coil | 100 lbs (45 kg)  | 150 lbs (68 kg)  | 187 lbs (85 kg)  | 317 lbs (144 kg) | 26 lbs (12 kg)   |
| Copper Tube/Copper Fin Cond Coil   | 263 lbs (119 kg) | 370 lbs (168 kg) | 512 lbs (232 kg) | 751 lbs (341 kg) | 677 lbs (307 kg) |

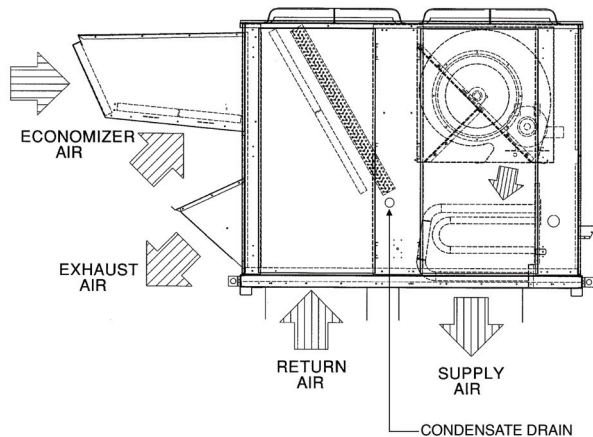
**Fig. 12 — Rigging Information**

**Table 6 — Evaporator Fan Motor Data**

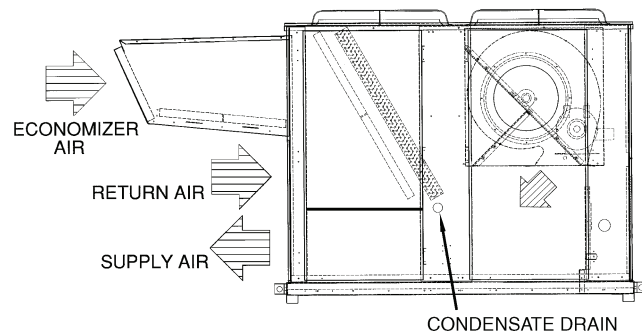
| UNIT<br>SIZE<br>50A2,A3,<br>A4,A5 | MOTOR<br>HP | MOTOR<br>SHAFT DIA.<br>(in.) | FAN<br>SHAFT<br>SPEED<br>(rpm) | MOTOR<br>SHEAVE<br>(P/N) | MOTOR<br>SHEAVE<br>PITCH<br>DIAMETER<br>(in.) | BUSHING<br>DIAMETER<br>(in.) | FAN<br>SHEAVE<br>(P/N) | FAN<br>SHEAVE<br>PITCH<br>DIAMETER<br>(in.) | BUSHING<br>DIAMETER<br>(in.) | BELT<br>(Quantity)<br>(P/N) | BELT<br>TENSION<br>(lb at .25 in.) |
|-----------------------------------|-------------|------------------------------|--------------------------------|--------------------------|-----------------------------------------------|------------------------------|------------------------|---------------------------------------------|------------------------------|-----------------------------|------------------------------------|
| 020                               | 5           | 1.125                        | 717                            | BK55                     | 4.8                                           | NONE - 1.125                 | 1B5V124                | 12.4                                        | B - 1.9375                   | BX56                        | 8                                  |
|                                   | 10          | 1.375                        | 924                            | 2BK50                    | 4.4                                           | NONE - 1.375                 | 2B5V86                 | 8.6                                         | B - 1.9375                   | (2) BX50                    | 8                                  |
|                                   | 15          | 1.625                        | 1096                           | 2B5V56                   | 5.7                                           | B - 1.625                    | 2B5V90                 | 9.1                                         | B - 1.9375                   | (2) 5VX530                  | 9                                  |
| 025                               | 5           | 1.125                        | 717                            | BK55                     | 4.8                                           | NONE - 1.125                 | 1B5V124                | 12.4                                        | B - 1.9375                   | BX56                        | 8                                  |
|                                   | 10          | 1.375                        | 962                            | 1B5V60                   | 6.1                                           | H - 1.375                    | 1B5V110                | 11.1                                        | B - 1.9375                   | 5VX570                      | 11                                 |
|                                   | 15          | 1.625                        | 1106                           | 2B5V54                   | 5.5                                           | B - 1.625                    | 2B5V86                 | 8.7                                         | B - 1.9375                   | (2) 5VX530                  | 9                                  |
| 027                               | 10          | 1.375                        | 848                            | 2BK50                    | 4.4                                           | NONE - 1.375                 | 2B5V94                 | 9.4                                         | B - 1.9375                   | (2) BX50                    | 8                                  |
|                                   | 15          | 1.625                        | 1059                           | 2B5V56                   | 4.9                                           | B - 1.625                    | 2B5V90                 | 8.1                                         | B - 1.9375                   | (2) 5VX530                  | 10                                 |
|                                   | 20          | 1.625                        | 1187                           | 2B5V58                   | 5.9                                           | B - 1.625                    | 2B5V86                 | 8.7                                         | B - 1.9375                   | (2) 5VX530                  | 11                                 |
| 030                               | 10          | 1.375                        | 856                            | 2BK50                    | 4.4                                           | H - 1.375                    | 2B5V94                 | 9.0                                         | B - 1.9375                   | (2) BX50                    | 8                                  |
|                                   | 15          | 1.625                        | 1096                           | 2B5V56                   | 5.7                                           | B - 1.625                    | 2B5V90                 | 9.1                                         | B - 1.9375                   | (2) 5VX530                  | 9                                  |
|                                   | 20          | 1.625                        | 1187                           | 2B5V58                   | 5.9                                           | B - 1.625                    | 2B5V86                 | 8.7                                         | B - 1.9375                   | (2) 5VX530                  | 11                                 |
| 035                               | 15          | 1.625                        | 1025                           | 2B5V50                   | 5.1                                           | B - 1.625                    | 2B5V86                 | 8.7                                         | B - 1.9375                   | (2) 5VX500                  | 9                                  |
|                                   | 20          | 1.625                        | 1147                           | 2B5V56                   | 5.7                                           | B - 1.625                    | 2B5V86                 | 8.7                                         | B - 1.9375                   | (2) 5VX530                  | 10                                 |
|                                   | 25          | 1.875                        | 1247                           | 2B5V62                   | 6.2                                           | B - 1.875                    | 2B5V86                 | 8.7                                         | B - 1.9375                   | (2) 5VX530                  | 11                                 |
| 040                               | 15          | 1.625                        | 976                            | 2B5V52                   | 5.3                                           | B - 1.625                    | 2B5V94                 | 9.5                                         | B - 1.9375                   | (2) 5VX530                  | 10                                 |
|                                   | 20          | 1.625                        | 1050                           | 2B5V56                   | 5.7                                           | B - 1.625                    | 2B5V94                 | 9.5                                         | B - 1.9375                   | (2) 5VX550                  | 11                                 |
|                                   | 25          | 1.875                        | 1182                           | 2B5V74                   | 7.5                                           | B - 1.875                    | 2B5V110                | 11.1                                        | B - 1.9375                   | (2) 5VX590                  | 11                                 |
| 050                               | 20          | 1.625                        | 1050                           | 2B5V56                   | 5.7                                           | B - 1.625                    | 2B5V94                 | 9.5                                         | B - 1.9375                   | (2) 5VX550                  | 10                                 |
|                                   | 25          | 1.875                        | 1142                           | 2B5V62                   | 6.2                                           | B - 1.875                    | 2B5V94                 | 9.5                                         | B - 1.9375                   | (2) 5VX570                  | 11                                 |
|                                   | 30          | 1.875                        | 1234                           | 2B5V66                   | 6.7                                           | B - 1.875                    | 2B5V94                 | 9.5                                         | B - 1.9375                   | (2) 5VX570                  | 13                                 |
| 060                               | 25          | 1.875                        | 1019                           | 3B5V52                   | 5.3                                           | B - 1.875                    | 3B5V90                 | 9.1                                         | B - 1.9375                   | (3) 5VX530                  | 12                                 |
|                                   | 30          | 1.875                        | 1087                           | 3B5V58                   | 5.9                                           | B - 1.875                    | 3B5V94                 | 9.5                                         | B - 1.9375                   | (3) 5VX550                  | 12                                 |
|                                   | 40          | 2.125                        | 1197                           | 3B5V64                   | 6.5                                           | B - 2.125                    | 3B5V94                 | 9.5                                         | B - 1.9375                   | (3) 5VX570                  | 14                                 |

**NOTES:**

1. Motor shaft speed is 1750 rpm. The fan shaft diameter is  $1\frac{15}{16}$  inches.
2. All indoor fan motors meet the minimum efficiency requirements as established by the Energy Policy Act of 1992 (EPACT), effective October 24, 1997.



**Fig. 13 — Air Distribution — Thru-the-Bottom**



**Fig. 14 — Air Distribution — Thru-the-Side**

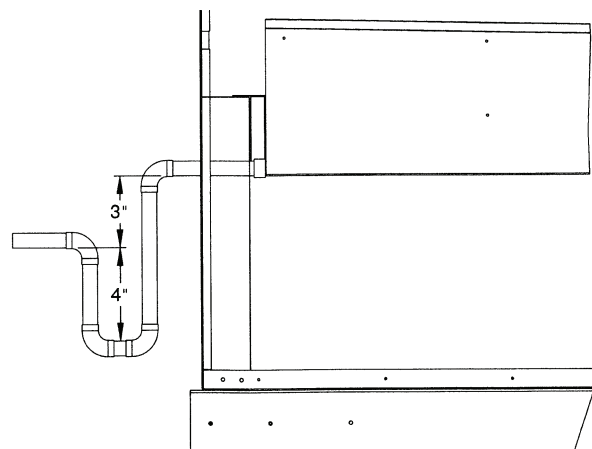
**Step 5 — Trap Condensate Drain** — See Fig. 5-10 for drain location. Condensate drain is open to atmosphere and must be trapped. Install a trapped drain at the drain location. One 1-in. female pipe coupling is provided inside the unit evaporator section for condensate drain connection. A trap at least 4-in. deep must be used. See Fig. 15. Trap must be installed to prevent freeze-up.

Condensate pans are sloped so that water will completely drain from the condensate pan to comply with indoor air quality guidelines. The condensate drain pans are not insulated.

**Step 6 — Make Electrical Connections**

**POWER WIRING** — Units are factory wired for the voltage shown on the unit nameplate.

Provide a unit safety disconnect switch in the main power supply to each unit (see Fig. 16). Select switch size and mounting location in accordance with applicable local codes or National Electrical Code (NEC). If combining the functions of safety disconnect with Maximum Overcurrent Protection (MOCP) fuses ("fused disconnect"), coordinate safety switch size with MOCP size data as marked on unit informative plate.



**Fig. 15 — Condensate Drain Trap Piping Details (Typical Roof Curb or Slab Mount Shown)**

Unit may be equipped with optional factory-installed non-fused disconnect switch (see Fig. 16). Provide maximum over-current protection devices (fuses or UL489 rated breakers, per local codes) in branch circuit wiring remote from unit. Observe requirements of NEC Article 440. Install service switch upstream of remote fuses if required.

The main power terminal block is suitable for use with aluminum or copper wire. See Fig. 16. Units have circuit breakers for compressors, fan motors, and control circuit. If required by local codes, provide an additional disconnect switch. Unit must be electrically grounded in accordance with local codes, or in absence of local codes, with NEC, ANSI (American National Standards Institute) C1-latest year.

**FIELD POWER SUPPLY** — Unit is factory wired for voltage shown on unit nameplate. See Tables 7A and 7B for electrical data.

Field wiring can be brought into the unit from bottom (through basepan and roof curb) or through side of unit (corner post next to control box).

A 3<sup>1</sup>/<sub>2</sub>-in. NPT coupling for field power wiring and a 3/4-in. NPT coupling for 24-v control wiring are provided in basepan. In the side post, there are two 2<sup>1</sup>/<sub>2</sub>-in. (sizes 020-035) or 3-in. (sizes 040-060) knockouts for the field power wiring. See Fig. 5-10. If control wiring is to be brought in through the side of unit, a 7/8-in. diameter hole is provided in the condenser side post next to the control box.

Do not route control wiring in the same conduit as power wiring.

If disconnect box is mounted to corner post, be careful not to drill or screw into the condenser coil.

**Routing Through Bottom of Unit** — If wiring is brought in through bottom of unit, use field-supplied watertight conduit to route power wiring through the 3<sup>1</sup>/<sub>2</sub>-in. diameter hole provided in the unit basepan.

Install conduit connector in unit basepan as shown in Fig. 5-10. Route power and ground lines through connector to terminal connections in unit control box as shown on unit wiring diagram and Fig. 16.

Use strain relief going into control box through 3<sup>5</sup>/<sub>8</sub>-in. diameter hole provided. After wires are in unit control box, connect to power terminal block (see Power Wiring section on page 18).

Low-voltage wiring must be run in watertight conduit from the basepan to control box and through 7/8-in. diameter hole provided in bottom of unit control box. Field-supplied strain relief must be used going into the box. After wiring is in control box, make connections to proper terminals on terminal blocks (see Field Control Wiring section on page 20).

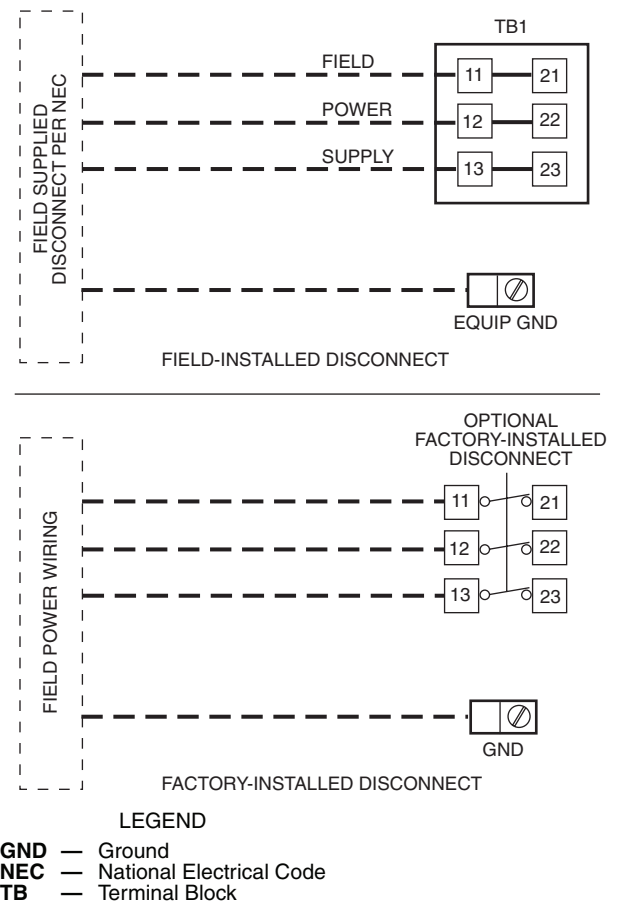
**Routing Through Side of Unit** — Route power wiring in field-supplied watertight conduit into unit through 2<sup>1</sup>/<sub>2</sub>-in. (sizes 020-035) or 3-in. (sizes 040-060 units) hole.

Use field-supplied strain relief going into control box through 3<sup>5</sup>/<sub>8</sub>-in. diameter hole provided. After wires are in unit control box, connect to power terminal block (see Power Wiring section on page 18).

Bring low-voltage control wiring through the 7/8-in. diameter hole provided in the condenser section side post. Use strain relief going into 7/8-in. diameter hole in bottom of unit control box.

After wiring is in control box, make connection to proper terminals on terminal blocks (see Field Control Wiring section on page 20).

Affix crankcase heater sticker (located in the installers packet) to unit disconnect switch.



**Fig. 16 — Field Power Wiring Connections**

**IMPORTANT:** The VAV (variable air volume) units use variable frequency drives, which generate and can radiate radio frequency energy. If units are not installed and used in accordance with these instructions, they may cause radio interference. They have been tested and found to comply with limits of a Class A computing device as defined by FCC (Federal Communications Commission) regulations, Subpart J of Part 15, which are designed to provide reasonable protection against such interference when operated in a commercial environment.

#### **WARNING**

The unit must be electrically grounded in accordance with local codes and NEC ANSI/NFPA 70 (National Fire Protection Association). Failure to ground unit could cause personal injury.

Voltage to compressor terminals during compressor operation must be within the voltage range indicated on the unit nameplate. Phases must be balanced within 2%.

Use the formula in Tables 7A and 7B to determine the percentage of voltage imbalance.

**IMPORTANT:** If the supply voltage phase imbalance is more than 2%, contact your local electric utility company immediately.

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

**IMPORTANT:** On 208/230-v units, transformers 1 to 5 are wired for 230-v. If 208/230-v unit is to be run with 208-v power supply, the transformers must be rewired as follows:

For transformer 1 move the black wires connected to terminal H2 and connect it to terminal H3.

For transformers 2 to 4, that are used for the 24 volt control circuits, connect as follows:

1. Remove cap from red (208 v) wire.
2. Remove cap from spliced orange (230 v) wire. Disconnect orange wire from black unit power wire.
3. Cap orange wire.
4. Splice red wire and black unit power wire. Cap wires.

If the unit is equipped with the optional convenience outlet connect the yellow wire to H2 on transformer 5.

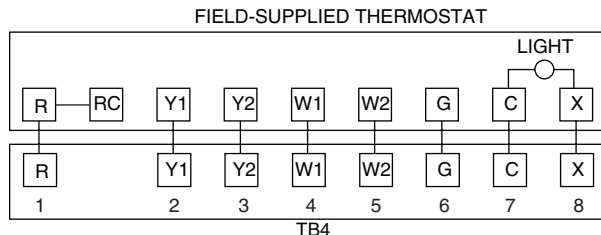
**IMPORTANT:** BE CERTAIN UNUSED WIRES ARE CAPPED. Failure to do so may damage the transformers.

**FIELD CONTROL WIRING** — The 50A Series units support a large number of control options that can impact the field control wiring. Refer to Fig. 17-19.

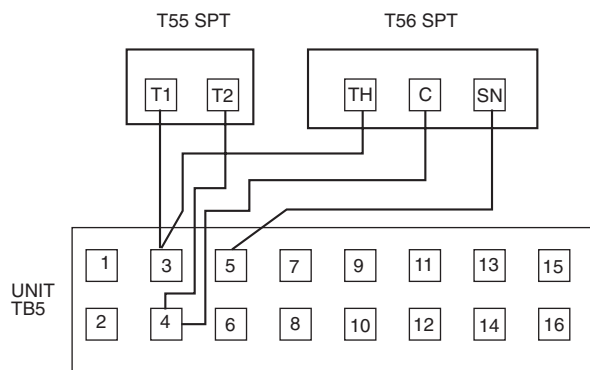
The control options that the unit can provide relate to the following parameters:

- CV (constant volume), VAV (variable air volume), or 3V™ (variable volume and variable temperature system) control operation
- Standalone with a thermostat (CV) or with a space sensor (CV and VAV)
- Network application with CCN or other networks
- Demand ventilation with CO<sub>2</sub> sensor
- Economizer and economizer with changeover control

- Building and duct static pressure control
- Fire shutdown and smoke control
- Diagnostics and monitoring
- For constant volume applications a thermostat (T-Stat) or space temperature sensor (SPT) will be required.



**Fig. 17 — Field Control Thermostat Wiring**



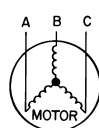
**Fig. 18 — Space Temperature Sensor Wiring**

## LEGEND AND NOTES FOR TABLES 7A AND 7B

### LEGEND

- FLA** — Full Load Amps  
**HACR** — Heating, Air Conditioning and Refrigeration  
**LRA** — Locked Rotor Amps  
**MCA** — Minimum Circuit Amps  
**MCHX** — Microchannel Heat Exchanger  
**MOCP** — Maximum Overcurrent Protection  
**NEC** — National Electrical Code  
**RLA** — Rated Load Amps  
**RTPF** — Round Tube Plate Fin Coil

\*Fuse or HACR circuit breaker per NEC.



AB = 452 v  
 BC = 464 v  
 AC = 455 v

$$\begin{aligned} \text{Average Voltage} &= \frac{452 + 464 + 455}{3} \\ &= \frac{1371}{3} \\ &= 457 \end{aligned}$$

Determine maximum deviation from average voltage.

(AB) 457 - 452 = 5 v  
 (BC) 464 - 457 = 7 v  
 (AC) 457 - 455 = 2 v

Maximum deviation is 7 v.

Determine percent of voltage imbalance.

$$\begin{aligned} \% \text{ Voltage Imbalance} &= 100 \times \frac{7}{457} \\ &= 1.53\% \end{aligned}$$

This amount of phase imbalance is satisfactory as it is below the maximum allowable 2%.

### NOTES:

1. In compliance with NEC requirements for multi motor and combination load equipment (refer to NEC Articles 430 and 440), the overcurrent protective device for the unit shall be fuse or HACR breaker. The Canadian units may be fuse or circuit 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 percent of voltage imbalance.*

% Voltage imbalance

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

Example: Supply voltage is 460-3-60.

**IMPORTANT:** If the supply voltage phase imbalance is more than 2%, contact your local electric utility company immediately.

**Table 7A — Electrical Data — 50A2,A3,A4,A5 Units Without Convenience Outlet**

| UNIT<br>SIZE<br>50A | VOLTAGE<br>3 PH,<br>60 Hz | VOLTAGE<br>RANGE |     | COMPRESSOR   |      |              |      |              |     |              |     | CONDENSER<br>FAN MOTOR |             | EVAPORATOR<br>FAN MOTOR |      | POWER<br>EXHAUST | OPTIONAL<br>ELECTRIC HEAT |               | POWER SUPPLY            |                   |
|---------------------|---------------------------|------------------|-----|--------------|------|--------------|------|--------------|-----|--------------|-----|------------------------|-------------|-------------------------|------|------------------|---------------------------|---------------|-------------------------|-------------------|
|                     |                           |                  |     | Cir A, No. 1 |      | Cir A, No. 2 |      | Cir B, No. 1 |     | Cir B, No. 2 |     |                        |             |                         |      |                  |                           |               |                         |                   |
|                     |                           | Min              | Max | FLA          | LRA  | RLA          | LRA  | RLA          | LRA | RLA          | LRA | Qty                    | FLA         | Hp                      | FLA  | FLA<br>(total)   | FLA                       | kW            | MCA                     | MOCPP*            |
| 020                 | 208                       | 187              | 229 | 22.4         | 149  | 22.4         | 149  | 29.5         | 195 | —            | —   | 2                      | 6.5<br>(ea) | 5                       | 16.7 | —                | —<br>75.1<br>150.1        | —<br>27<br>54 | 111.4<br>114.8<br>171.0 | 125<br>125<br>200 |
|                     |                           |                  |     |              |      |              |      |              |     |              |     |                        |             |                         |      | 23.6             | —<br>75.1<br>150.1        | —<br>27<br>54 | 135.0<br>144.3<br>200.5 | 150<br>150<br>225 |
|                     |                           |                  |     |              |      |              |      |              |     |              |     |                        |             | 10                      | 30.8 | —                | —<br>75.1<br>150.1        | —<br>27<br>54 | 125.8<br>132.4<br>188.6 | 150<br>150<br>200 |
|                     |                           |                  |     |              |      |              |      |              |     |              |     |                        |             |                         |      | 23.6             | —<br>75.1<br>150.1        | —<br>27<br>54 | 149.4<br>161.9<br>218.1 | 175<br>175<br>225 |
|                     |                           |                  |     |              |      |              |      |              |     |              |     |                        |             | 15                      | 46.2 | —                | —<br>75.1<br>150.1        | —<br>27<br>54 | 145.1<br>151.6<br>207.9 | 175<br>175<br>250 |
|                     |                           |                  |     |              |      |              |      |              |     |              |     |                        |             |                         |      | 23.6             | —<br>75.1<br>150.1        | —<br>27<br>54 | 168.7<br>181.1<br>237.4 | 200<br>200<br>250 |
|                     | 230                       | 207              | 253 | 22.4         | 149  | 22.4         | 149  | 29.5         | 195 | —            | —   | 2                      | 6.6<br>(ea) | 5                       | 15.2 | —                | —<br>86.6<br>173.2        | —<br>36<br>72 | 110.1<br>127.3<br>192.2 | 125<br>150<br>225 |
|                     |                           |                  |     |              |      |              |      |              |     |              |     |                        |             |                         |      | 23.6             | —<br>86.6<br>173.2        | —<br>36<br>72 | 133.7<br>156.8<br>221.7 | 150<br>175<br>225 |
|                     |                           |                  |     |              |      |              |      |              |     |              |     |                        |             | 10                      | 28.0 | —                | —<br>86.6<br>173.2        | —<br>36<br>72 | 122.9<br>143.3<br>208.2 | 150<br>150<br>225 |
|                     |                           |                  |     |              |      |              |      |              |     |              |     |                        |             |                         |      | 23.6             | —<br>86.6<br>173.2        | —<br>36<br>72 | 146.5<br>172.8<br>237.7 | 175<br>175<br>250 |
|                     |                           |                  |     |              |      |              |      |              |     |              |     |                        |             | 15                      | 42.0 | —                | —<br>86.6<br>173.2        | —<br>36<br>72 | 140.0<br>160.8<br>225.7 | 175<br>175<br>250 |
|                     |                           |                  |     |              |      |              |      |              |     |              |     |                        |             |                         |      | 23.6             | —<br>86.6<br>173.2        | —<br>36<br>72 | 163.6<br>190.3<br>255.2 | 200<br>200<br>300 |
|                     | 460                       | 414              | 508 | 10.6         | 75   | 10.6         | 75   | 14.7         | 95  | —            | —   | 2                      | 3.3<br>(ea) | 5                       | 7.6  | —                | —<br>43.3<br>86.6         | —<br>36<br>72 | 53.8<br>63.6<br>96.1    | 60<br>70<br>110   |
|                     |                           |                  |     |              |      |              |      |              |     |              |     |                        |             |                         |      | 12.6             | —<br>43.3<br>86.6         | —<br>36<br>72 | 66.4<br>79.4<br>111.9   | 80<br>80<br>125   |
|                     |                           |                  |     |              |      |              |      |              |     |              |     |                        |             | 10                      | 14.0 | —                | —<br>43.3<br>86.6         | —<br>36<br>72 | 60.2<br>71.6<br>104.1   | 70<br>80<br>110   |
|                     |                           |                  |     |              |      |              |      |              |     |              |     |                        |             |                         |      | 12.6             | —<br>43.3<br>86.6         | —<br>36<br>72 | 72.8<br>87.4<br>119.9   | 80<br>90<br>125   |
|                     |                           |                  |     |              |      |              |      |              |     |              |     |                        |             | 15                      | 21.0 | —                | —<br>43.3<br>86.6         | —<br>36<br>72 | 68.8<br>80.4<br>112.9   | 80<br>90<br>125   |
|                     |                           |                  |     |              |      |              |      |              |     |              |     |                        |             |                         |      | 12.6             | —<br>43.3<br>86.6         | —<br>36<br>72 | 81.4<br>96.1<br>128.6   | 100<br>100<br>150 |
|                     | 575                       | 518              | 632 | 7.7          | 54   | 7.7          | 54   | 12.2         | 80  | —            | —   | 2                      | 2.6<br>(ea) | 5                       | 6.1  | —                | —<br>34.6<br>69.3         | —<br>36<br>72 | 42.0<br>50.9<br>76.9    | 50<br>60<br>90    |
|                     |                           |                  |     |              |      |              |      |              |     |              |     |                        |             |                         |      | 9.6              | —<br>34.6<br>69.3         | —<br>36<br>72 | 51.6<br>62.9<br>88.9    | 60<br>70<br>100   |
|                     |                           |                  |     |              |      |              |      |              |     |              |     |                        |             | 10                      | 11.0 | —                | —<br>34.6<br>69.3         | —<br>36<br>72 | 46.9<br>57.0<br>83.1    | 50<br>60<br>90    |
|                     |                           |                  |     |              |      |              |      |              |     |              |     |                        |             |                         |      | 9.6              | —<br>34.6<br>69.3         | —<br>36<br>72 | 56.5<br>69.0<br>95.1    | 60<br>70<br>100   |
|                     |                           |                  |     |              |      |              |      |              |     |              |     |                        |             | 15                      | 17.0 | —                | —<br>34.6<br>69.3         | —<br>36<br>72 | 54.1<br>64.5<br>90.6    | 70<br>70<br>100   |
|                     |                           |                  |     |              |      |              |      |              |     |              |     |                        |             |                         |      | 9.6              | —<br>34.6<br>69.3         | —<br>36<br>72 | 63.7<br>76.5<br>102.6   | 80<br>80<br>110   |
|                     | 380                       | 342              | 418 | 11           | 75.3 | 11           | 75.3 | 16.7         | 123 | —            | —   | 2                      | 3.6<br>(ea) | 5                       | 9.1  | —                | —<br>34.2<br>68.4         | —<br>23<br>45 | 59.2<br>59.2<br>96.9    | 70<br>70<br>100   |
|                     |                           |                  |     |              |      |              |      |              |     |              |     |                        |             |                         |      | 14.8             | —<br>34.2<br>68.4         | —<br>23<br>45 | 74.0<br>74.0<br>115.4   | 90<br>90<br>125   |
|                     |                           |                  |     |              |      |              |      |              |     |              |     |                        |             | 10                      | 16.7 | —                | —<br>34.2<br>68.4         | —<br>23<br>45 | 66.8<br>66.8<br>106.4   | 80<br>80<br>110   |
|                     |                           |                  |     |              |      |              |      |              |     |              |     |                        |             |                         |      | 14.8             | —<br>34.2<br>68.4         | —<br>23<br>45 | 81.6<br>82.1<br>124.9   | 90<br>90<br>125   |
|                     |                           |                  |     |              |      |              |      |              |     |              |     |                        |             | 15                      | 24.5 | —                | —<br>34.2<br>68.4         | —<br>23<br>45 | 76.5<br>76.5<br>116.1   | 100<br>100<br>125 |
|                     |                           |                  |     |              |      |              |      |              |     |              |     |                        |             |                         |      | 14.8             | —<br>34.2<br>68.4         | —<br>23<br>45 | 91.3<br>91.9<br>134.6   | 110<br>110<br>150 |

**Table 7A — Electrical Data — 50A2,A3,A4,A5 Units Without Convenience Outlet**

| UNIT<br>SIZE<br>50A | VOLTAGE<br>3 PH,<br>60 Hz | VOLTAGE<br>RANGE |     | COMPRESSOR   |     |              |     |              |     |              |     | CONDENSER<br>FAN MOTOR |             | EVAPORATOR<br>FAN MOTOR |      | POWER<br>EXHAUST | OPTIONAL<br>ELECTRIC HEAT |          | POWER SUPPLY            |                   |
|---------------------|---------------------------|------------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|------------------------|-------------|-------------------------|------|------------------|---------------------------|----------|-------------------------|-------------------|
|                     |                           |                  |     | Cir A, No. 1 |     | Cir A, No. 2 |     | Cir B, No. 1 |     | Cir B, No. 2 |     |                        |             |                         |      |                  | FLA                       | kW       | MCA                     | MOCPS*            |
|                     |                           | Min              | Max | FLA          | LRA | RLA          | LRA | RLA          | LRA | RLA          | LRA | Qty                    | FLA         | Hp                      | FLA  | FLA<br>(total)   | FLA                       | kW       | MCA                     | MOCPS*            |
| 025                 | 208                       | 187              | 229 | 29.5         | 195 | 29.5         | 195 | 29.5         | 195 | —            | —   | 2                      | 6.5<br>(ea) | 5                       | 16.7 | —                | 75.1<br>150.1             | 27<br>54 | 125.6<br>125.6<br>171.0 | 150<br>150<br>200 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 23.6             | 75.1<br>150.1             | 27<br>54 | 149.2<br>149.2<br>200.5 | 175<br>175<br>225 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 10                      | 30.8 | —                | 75.1<br>150.1             | 27<br>54 | 140.0<br>140.0<br>188.6 | 150<br>150<br>200 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 23.6             | 75.1<br>150.1             | 27<br>54 | 163.6<br>163.6<br>218.1 | 175<br>175<br>225 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 15                      | 46.2 | —                | 75.1<br>150.1             | 27<br>54 | 159.3<br>159.3<br>207.9 | 200<br>200<br>250 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 23.6             | 75.1<br>150.1             | 27<br>54 | 182.9<br>182.9<br>237.4 | 225<br>225<br>250 |
|                     | 230                       | 207              | 253 | 29.5         | 195 | 29.5         | 195 | 29.5         | 195 | —            | —   | 2                      | 6.6<br>(ea) | 5                       | 15.2 | —                | 86.6<br>173.2             | 36<br>72 | 124.3<br>127.3<br>192.2 | 150<br>150<br>225 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 23.6             | 86.6<br>173.2             | 36<br>72 | 147.9<br>156.8<br>221.7 | 175<br>175<br>225 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 10                      | 28.0 | —                | 86.6<br>173.2             | 36<br>72 | 137.1<br>143.3<br>208.2 | 150<br>150<br>225 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 23.6             | 86.6<br>173.2             | 36<br>72 | 160.7<br>172.8<br>237.7 | 175<br>175<br>250 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 15                      | 42.0 | —                | 86.6<br>173.2             | 36<br>72 | 154.2<br>160.8<br>225.7 | 175<br>175<br>250 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 23.6             | 86.6<br>173.2             | 36<br>72 | 177.8<br>190.3<br>255.2 | 200<br>200<br>300 |
|                     | 460                       | 414              | 508 | 14.7         | 95  | 14.7         | 95  | 14.7         | 95  | —            | —   | 2                      | 3.3<br>(ea) | 5                       | 7.6  | —                | 43.3<br>86.6              | 36<br>72 | 62.0<br>63.6<br>96.1    | 70<br>70<br>110   |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 12.6             | 43.3<br>86.6              | 36<br>72 | 74.6<br>79.4<br>111.9   | 80<br>80<br>125   |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 10                      | 14.0 | —                | 43.3<br>86.6              | 36<br>72 | 68.4<br>71.6<br>104.1   | 80<br>80<br>110   |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 12.6             | 43.3<br>86.6              | 36<br>72 | 81.0<br>87.4<br>119.9   | 90<br>90<br>125   |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 15                      | 21.0 | —                | 43.3<br>86.6              | 36<br>72 | 77.0<br>80.4<br>112.9   | 90<br>90<br>125   |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 12.6             | 43.3<br>86.6              | 36<br>72 | 89.6<br>96.1<br>128.6   | 110<br>110<br>150 |
|                     | 575                       | 518              | 632 | 12.2         | 80  | 12.2         | 80  | 12.2         | 80  | —            | —   | 2                      | 2.6<br>(ea) | 5                       | 6.1  | —                | 34.6<br>69.3              | 36<br>72 | 51.0<br>51.0<br>76.9    | 60<br>60<br>90    |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 9.6              | 34.6<br>69.3              | 36<br>72 | 60.6<br>62.9<br>88.9    | 70<br>70<br>100   |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 10                      | 11.0 | —                | 34.6<br>69.3              | 36<br>72 | 55.9<br>57.0<br>83.1    | 60<br>60<br>90    |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 9.6              | 34.6<br>69.3              | 36<br>72 | 65.5<br>69.0<br>95.1    | 70<br>70<br>100   |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 15                      | 17.0 | —                | 34.6<br>69.3              | 36<br>72 | 63.1<br>64.5<br>90.6    | 80<br>80<br>100   |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 9.6              | 34.6<br>69.3              | 36<br>72 | 72.7<br>76.5<br>102.6   | 80<br>80<br>110   |
|                     | 380                       | 342              | 418 | 16.7         | 123 | 16.7         | 123 | 16.7         | 123 | —            | —   | 2                      | 3.6<br>(ea) | 5                       | 9.1  | —                | 34.2<br>68.4              | 23<br>45 | 70.6<br>70.6<br>96.9    | 80<br>80<br>100   |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 14.8             | 34.2<br>68.4              | 23<br>45 | 85.4<br>85.4<br>115.4   | 100<br>100<br>125 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 10                      | 16.7 | —                | 34.2<br>68.4              | 23<br>45 | 78.2<br>78.2<br>106.4   | 90<br>90<br>110   |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 14.8             | 34.2<br>68.4              | 23<br>45 | 93.0<br>93.0<br>124.9   | 100<br>100<br>125 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 15                      | 24.5 | —                | 34.2<br>68.4              | 23<br>45 | 87.9<br>87.9<br>116.1   | 110<br>110<br>125 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 14.8             | 34.2<br>68.4              | 23<br>45 | 102.7<br>102.7<br>134.6 | 125<br>125<br>150 |

**Table 7A — Electrical Data — 50A2,A3,A4,A5 Units Without Convenience Outlet (cont)**

| UNIT<br>SIZE<br>50A | VOLTAGE<br>3 PH,<br>60 Hz | VOLTAGE<br>RANGE |     | COMPRESSOR   |     |              |     |              |     |              |     | CONDENSER<br>FAN MOTOR |             | EVAPORATOR<br>FAN MOTOR |      | POWER<br>EXHAUST | OPTIONAL<br>ELECTRIC HEAT |          | POWER SUPPLY            |                   |
|---------------------|---------------------------|------------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|------------------------|-------------|-------------------------|------|------------------|---------------------------|----------|-------------------------|-------------------|
|                     |                           |                  |     | Cir A, No. 1 |     | Cir A, No. 2 |     | Cir B, No. 1 |     | Cir B, No. 2 |     |                        |             |                         |      |                  |                           |          |                         |                   |
|                     |                           | Min              | Max | FLA          | LRA | RLA          | LRA | RLA          | LRA | RLA          | LRA | Qty                    | FLA         | Hp                      | FLA  | FLA<br>(total)   | FLA                       | kW       | MCA                     | MOCPP*            |
| 027                 | 208                       | 187              | 229 | 29.5         | 195 | 29.5         | 195 | 29.5         | 195 | —            | —   | 2                      | 6.5<br>(ea) | 10                      | 30.8 | —                | 75.1<br>150.1             | 27<br>54 | 140.0<br>140.0<br>188.6 | 150<br>150<br>200 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 23.6             | 75.1<br>150.1             | 27<br>54 | 163.6<br>163.6<br>218.1 | 175<br>175<br>225 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 15                      | 46.2 | —                | 75.1<br>150.1             | 27<br>54 | 159.3<br>159.3<br>207.9 | 200<br>200<br>250 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 23.6             | 75.1<br>150.1             | 27<br>54 | 182.9<br>182.9<br>237.4 | 225<br>225<br>250 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 20                      | 59.4 | —                | 75.1<br>150.1             | 27<br>54 | 175.8<br>175.8<br>224.4 | 225<br>225<br>250 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 23.6             | 75.1<br>150.1             | 27<br>54 | 199.4<br>199.4<br>253.9 | 250<br>250<br>300 |
|                     | 230                       | 207              | 253 | 29.5         | 195 | 29.5         | 195 | 29.5         | 195 | —            | —   | 2                      | 6.6<br>(ea) | 10                      | 28.0 | —                | 86.6<br>173.2             | 36<br>72 | 137.1<br>143.3<br>208.2 | 150<br>150<br>225 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 23.6             | 86.6<br>173.2             | 36<br>72 | 160.7<br>172.8<br>237.7 | 175<br>175<br>250 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 15                      | 42.0 | —                | 86.6<br>173.2             | 36<br>72 | 154.2<br>160.8<br>225.7 | 175<br>175<br>250 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 23.6             | 86.6<br>173.2             | 36<br>72 | 177.8<br>190.3<br>255.2 | 200<br>200<br>300 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 20                      | 54.0 | —                | 86.6<br>173.2             | 36<br>72 | 169.2<br>175.8<br>240.7 | 200<br>200<br>250 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 23.6             | 86.6<br>173.2             | 36<br>72 | 192.8<br>205.3<br>270.2 | 225<br>225<br>300 |
|                     | 460                       | 414              | 508 | 14.7         | 95  | 14.7         | 95  | 14.7         | 95  | —            | —   | 2                      | 3.3<br>(ea) | 10                      | 14.0 | —                | 43.3<br>86.6              | 36<br>72 | 68.4<br>71.6<br>104.1   | 80<br>80<br>110   |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 12.6             | 43.3<br>86.6              | 36<br>72 | 81.0<br>87.4<br>119.9   | 90<br>90<br>125   |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 15                      | 21.0 | —                | 43.3<br>86.6              | 36<br>72 | 77.0<br>80.4<br>112.9   | 90<br>90<br>125   |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 12.6             | 43.3<br>86.6              | 36<br>72 | 89.6<br>96.1<br>128.6   | 110<br>110<br>150 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 20                      | 27.0 | —                | 43.3<br>86.6              | 36<br>72 | 84.5<br>87.9<br>120.4   | 110<br>110<br>125 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 12.6             | 43.3<br>86.6              | 36<br>72 | 97.1<br>103.6<br>136.1  | 110<br>110<br>150 |
|                     | 575                       | 518              | 632 | 12.2         | 80  | 12.2         | 80  | 12.2         | 80  | —            | —   | 2                      | 2.6<br>(ea) | 10                      | 11.0 | —                | 34.6<br>69.3              | 36<br>72 | 55.9<br>57.0<br>83.1    | 60<br>60<br>90    |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 9.6              | 34.6<br>69.3              | 36<br>72 | 65.5<br>69.0<br>95.1    | 70<br>70<br>100   |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 15                      | 17.0 | —                | 34.6<br>69.3              | 36<br>72 | 63.1<br>64.5<br>90.6    | 80<br>80<br>100   |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 9.6              | 34.6<br>69.3              | 36<br>72 | 72.7<br>76.5<br>102.6   | 80<br>80<br>110   |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 20                      | 22.0 | —                | 34.6<br>69.3              | 36<br>72 | 69.3<br>70.8<br>96.8    | 90<br>90<br>110   |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 9.6              | 34.6<br>69.3              | 36<br>72 | 78.9<br>82.8<br>108.8   | 100<br>100<br>125 |
|                     | 380                       | 342              | 418 | 16.7         | 123 | 16.7         | 123 | 16.7         | 123 | —            | —   | 2                      | 3.6<br>(ea) | 10                      | 16.7 | —                | 34.2<br>68.4              | 23<br>45 | 78.2<br>78.2<br>106.4   | 90<br>90<br>110   |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 14.8             | 34.2<br>68.4              | 23<br>45 | 93.0<br>93.0<br>124.9   | 100<br>100<br>125 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 15                      | 24.5 | —                | 34.2<br>68.4              | 23<br>45 | 87.9<br>87.9<br>116.1   | 110<br>110<br>125 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 14.8             | 34.2<br>68.4              | 23<br>45 | 102.7<br>102.7<br>134.6 | 125<br>125<br>150 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 20                      | 30.0 | —                | 34.2<br>68.4              | 23<br>45 | 94.8<br>94.8<br>123.0   | 110<br>110<br>125 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 14.8             | 34.2<br>68.4              | 23<br>45 | 109.6<br>109.6<br>141.5 | 125<br>125<br>150 |

See Legend and Notes on page 20.

**Table 7A — Electrical Data — 50A2,A3,A4,A5 Units Without Convenience Outlet (cont)**

| UNIT<br>SIZE<br>50A | VOLTAGE<br>3 PH,<br>60 Hz | VOLTAGE<br>RANGE |     | COMPRESSOR   |     |              |     |              |     |              |     | CONDENSER<br>FAN MOTOR |             | EVAPORATOR<br>FAN MOTOR |      | POWER<br>EXHAUST | OPTIONAL<br>ELECTRIC HEAT |          | POWER SUPPLY            |                   |
|---------------------|---------------------------|------------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|------------------------|-------------|-------------------------|------|------------------|---------------------------|----------|-------------------------|-------------------|
|                     |                           |                  |     | Cir A, No. 1 |     | Cir A, No. 2 |     | Cir B, No. 1 |     | Cir B, No. 2 |     |                        |             |                         |      |                  | FLA                       | kW       | MCA                     | MOCP*             |
|                     |                           | Min              | Max | FLA          | LRA | RLA          | LRA | RLA          | LRA | RLA          | LRA | Qty                    | FLA         | Hp                      | FLA  | FLA<br>(total)   | FLA                       | kW       | MCA                     | MOCP*             |
| 030                 | 208                       | 187              | 229 | 23.2         | 164 | 23.2         | 164 | 23.2         | 164 | 23.2         | 164 | 2                      | 6.5<br>(ea) | 10                      | 30.8 | —                | 75.1<br>150.1             | 27<br>54 | 144.3<br>144.3<br>188.6 | 175<br>175<br>200 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 23.6             | 75.1<br>150.1             | 27<br>54 | 167.9<br>167.9<br>218.1 | 175<br>175<br>225 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 15                      | 46.2 | —                | 75.1<br>150.1             | 27<br>54 | 163.6<br>163.6<br>207.9 | 200<br>200<br>250 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 23.6             | 75.1<br>150.1             | 27<br>54 | 187.2<br>187.2<br>237.4 | 225<br>225<br>250 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 20                      | 59.4 | —                | 75.1<br>150.1             | 27<br>54 | 180.1<br>180.1<br>224.4 | 225<br>225<br>250 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 23.6             | 75.1<br>150.1             | 27<br>54 | 203.7<br>203.7<br>253.9 | 250<br>250<br>300 |
|                     | 230                       | 207              | 253 | 23.2         | 164 | 23.2         | 164 | 23.2         | 164 | 23.2         | 164 | 2                      | 6.6<br>(ea) | 10                      | 28.0 | —                | 86.6<br>173.2             | 36<br>72 | 141.0<br>143.3<br>208.2 | 150<br>150<br>225 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 23.6             | 86.6<br>173.2             | 36<br>72 | 164.6<br>172.8<br>237.7 | 175<br>175<br>250 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 15                      | 42.0 | —                | 86.6<br>173.2             | 36<br>72 | 158.5<br>160.8<br>225.7 | 200<br>200<br>250 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 23.6             | 86.6<br>173.2             | 36<br>72 | 182.1<br>190.3<br>255.2 | 200<br>200<br>300 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 20                      | 54.0 | —                | 86.6<br>173.2             | 36<br>72 | 173.5<br>175.8<br>240.7 | 225<br>225<br>250 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 23.6             | 86.6<br>173.2             | 36<br>72 | 197.1<br>205.3<br>270.2 | 250<br>250<br>300 |
|                     | 460                       | 414              | 508 | 11.2         | 75  | 11.2         | 75  | 11.2         | 75  | 11.2         | 75  | 2                      | 3.3<br>(ea) | 10                      | 14.0 | —                | 43.3<br>86.6              | 36<br>72 | 68.9<br>71.6<br>104.1   | 80<br>80<br>110   |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 12.6             | 43.3<br>86.6              | 36<br>72 | 81.5<br>87.4<br>119.9   | 90<br>90<br>125   |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 15                      | 21.0 | —                | 43.3<br>86.6              | 36<br>72 | 77.7<br>80.4<br>112.9   | 90<br>90<br>125   |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 12.6             | 43.3<br>86.6              | 36<br>72 | 90.3<br>96.1<br>128.6   | 110<br>110<br>150 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 20                      | 27.0 | —                | 43.3<br>86.6              | 36<br>72 | 85.2<br>87.9<br>120.4   | 110<br>110<br>125 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 12.6             | 43.3<br>86.6              | 36<br>72 | 97.8<br>103.6<br>136.1  | 110<br>110<br>150 |
|                     | 575                       | 518              | 632 | 7.9          | 54  | 7.9          | 54  | 7.9          | 54  | 7.9          | 54  | 2                      | 2.6<br>(ea) | 10                      | 11.0 | —                | 34.6<br>69.3              | 36<br>72 | 50.6<br>57.0<br>83.1    | 60<br>60<br>90    |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 9.6              | 34.6<br>69.3              | 36<br>72 | 60.2<br>69.0<br>95.1    | 70<br>70<br>100   |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 15                      | 17.0 | —                | 34.6<br>69.3              | 36<br>72 | 58.1<br>64.5<br>90.6    | 70<br>70<br>100   |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 9.6              | 34.6<br>69.3              | 36<br>72 | 67.7<br>76.5<br>102.6   | 80<br>80<br>110   |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 20                      | 22.0 | —                | 34.6<br>69.3              | 36<br>72 | 64.3<br>70.8<br>96.8    | 80<br>80<br>110   |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 9.6              | 34.6<br>69.3              | 36<br>72 | 73.9<br>82.8<br>108.8   | 90<br>90<br>125   |
|                     | 380                       | 342              | 418 | 12.2         | 73  | 12.2         | 73  | 12.2         | 73  | 12.2         | 73  | 2                      | 3.6<br>(ea) | 10                      | 16.7 | —                | 34.2<br>68.4              | 23<br>45 | 76.9<br>76.9<br>106.4   | 90<br>90<br>110   |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 14.8             | 34.2<br>68.4              | 23<br>45 | 91.7<br>91.7<br>124.9   | 100<br>100<br>125 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 15                      | 24.5 | —                | 34.2<br>68.4              | 23<br>45 | 86.6<br>86.6<br>116.1   | 110<br>110<br>125 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 14.8             | 34.2<br>68.4              | 23<br>45 | 101.4<br>101.4<br>134.6 | 125<br>125<br>150 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 20                      | 30.0 | —                | 34.2<br>68.4              | 23<br>45 | 93.5<br>93.5<br>123.0   | 110<br>110<br>125 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 14.8             | 34.2<br>68.4              | 23<br>45 | 108.3<br>108.3<br>141.5 | 125<br>125<br>150 |

See Legend and Notes on page 20.

**Table 7A — Electrical Data — 50A2,A3,A4,A5 Units Without Convenience Outlet (cont)**

| UNIT<br>SIZE<br>50A | VOLTAGE<br>3 PH,<br>60 Hz | VOLTAGE<br>RANGE |     | COMPRESSOR   |      |              |      |              |      |              |      | CONDENSER<br>FAN MOTOR |             | EVAPORATOR<br>FAN MOTOR |      | POWER<br>EXHAUST | OPTIONAL<br>ELECTRIC HEAT |                    | POWER SUPPLY            |                         |                   |    |      |    |   |             |    |      |     |                   |               |                       |                   |
|---------------------|---------------------------|------------------|-----|--------------|------|--------------|------|--------------|------|--------------|------|------------------------|-------------|-------------------------|------|------------------|---------------------------|--------------------|-------------------------|-------------------------|-------------------|----|------|----|---|-------------|----|------|-----|-------------------|---------------|-----------------------|-------------------|
|                     |                           |                  |     | Cir A, No. 1 |      | Cir A, No. 2 |      | Cir B, No. 1 |      | Cir B, No. 2 |      |                        |             |                         |      |                  | FLA                       | kW                 | MCA                     | MOCP*                   |                   |    |      |    |   |             |    |      |     |                   |               |                       |                   |
|                     |                           | Min              | Max | FLA          | LRA  | RLA          | LRA  | RLA          | LRA  | RLA          | LRA  | Qty                    | FLA         | Hp                      | FLA  | FLA<br>(total)   | FLA                       | kW                 | MCA                     | MOCP*                   |                   |    |      |    |   |             |    |      |     |                   |               |                       |                   |
| 035                 | 208                       | 187              | 229 | 22.4         | 149  | 22.4         | 149  | 30.1         | 225  | 30.1         | 225  | 2                      | 6.5<br>(ea) | 15                      | 46.2 | —                | —<br>75.1<br>150.1        | —<br>27<br>54      | 175.8<br>175.8<br>207.9 | 200<br>200<br>250       |                   |    |      |    |   |             |    |      |     |                   |               |                       |                   |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      | 23.6             | —<br>75.1<br>150.1        | —<br>27<br>54      | 199.4<br>199.4<br>237.4 | 225<br>225<br>250       |                   |    |      |    |   |             |    |      |     |                   |               |                       |                   |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             | 20                      | 59.4 | —                | —<br>75.1<br>150.1        | —<br>27<br>54      | 192.3<br>192.3<br>224.4 | 250<br>250<br>250       |                   |    |      |    |   |             |    |      |     |                   |               |                       |                   |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      | 23.6             | —<br>75.1<br>150.1        | —<br>27<br>54      | 215.9<br>215.9<br>253.9 | 250<br>250<br>300       |                   |    |      |    |   |             |    |      |     |                   |               |                       |                   |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             | 25                      | 74.8 | —                | —<br>75.1<br>150.1        | —<br>27<br>54      | 211.5<br>211.5<br>243.6 | 250<br>250<br>300       |                   |    |      |    |   |             |    |      |     |                   |               |                       |                   |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      | 23.6             | —<br>75.1<br>150.1        | —<br>27<br>54      | 235.1<br>235.1<br>273.1 | 300<br>300<br>300       |                   |    |      |    |   |             |    |      |     |                   |               |                       |                   |
|                     |                           | 230              | 207 | 253          | 22.4 | 149          | 22.4 | 149          | 30.1 | 225          | 30.1 | 225                    | 2           | 6.6<br>(ea)             | 15   | 42.0             | —                         | —<br>86.6<br>173.2 | —<br>36<br>72           | 170.7<br>170.7<br>225.7 | 200<br>200<br>250 |    |      |    |   |             |    |      |     |                   |               |                       |                   |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      |                  | 23.6                      | —<br>86.6<br>173.2 | —<br>36<br>72           | 194.3<br>194.3<br>255.2 | 225<br>225<br>300 |    |      |    |   |             |    |      |     |                   |               |                       |                   |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         | 20   | 54.0             | —                         | —<br>86.6<br>173.2 | —<br>36<br>72           | 185.7<br>185.7<br>240.7 | 225<br>225<br>250 |    |      |    |   |             |    |      |     |                   |               |                       |                   |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      |                  | 23.6                      | —<br>86.6<br>173.2 | —<br>36<br>72           | 209.3<br>209.3<br>270.2 | 250<br>250<br>300 |    |      |    |   |             |    |      |     |                   |               |                       |                   |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         | 25   | 68.0             | —                         | —<br>86.6<br>173.2 | —<br>36<br>72           | 203.2<br>203.2<br>258.2 | 250<br>250<br>300 |    |      |    |   |             |    |      |     |                   |               |                       |                   |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      |                  | 23.6                      | —<br>86.6<br>173.2 | —<br>36<br>72           | 226.8<br>226.8<br>287.7 | 250<br>250<br>300 |    |      |    |   |             |    |      |     |                   |               |                       |                   |
|                     | 460                       | 414              | 508 | 10.6         | 75   | 10.6         | 75   | 16.7         | 114  | 16.7         | 114  | 2                      | 3.3<br>(ea) | 15                      | 21.0 | —                | —<br>43.3<br>86.6         | —<br>36<br>72      | 87.5<br>87.5<br>112.9   | 100<br>100<br>125       |                   |    |      |    |   |             |    |      |     |                   |               |                       |                   |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      | 12.6             | —<br>43.3<br>86.6         | —<br>36<br>72      | 100.1<br>100.1<br>128.6 | 110<br>110<br>150       |                   |    |      |    |   |             |    |      |     |                   |               |                       |                   |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             | 20                      | 27.0 | —                | —<br>43.3<br>86.6         | —<br>36<br>72      | 95.0<br>95.0<br>120.4   | 110<br>110<br>125       |                   |    |      |    |   |             |    |      |     |                   |               |                       |                   |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      | 12.6             | —<br>43.3<br>86.6         | —<br>36<br>72      | 107.6<br>107.6<br>136.1 | 125<br>125<br>150       |                   |    |      |    |   |             |    |      |     |                   |               |                       |                   |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             | 25                      | 34.0 | —                | —<br>43.3<br>86.6         | —<br>36<br>72      | 103.7<br>103.7<br>129.1 | 125<br>125<br>150       |                   |    |      |    |   |             |    |      |     |                   |               |                       |                   |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      | 12.6             | —<br>43.3<br>86.6         | —<br>36<br>72      | 116.3<br>116.3<br>144.9 | 150<br>150<br>175       |                   |    |      |    |   |             |    |      |     |                   |               |                       |                   |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             | 575                     | 518  | 632              | 7.7                       | 54                 | 7.7                     | 54                      | 12.2              | 80 | 12.2 | 80 | 2 | 2.6<br>(ea) | 15 | 17.0 | —   | —<br>34.6<br>69.3 | —<br>36<br>72 | 66.3<br>66.3<br>90.6  | 80<br>80<br>100   |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      |                  |                           |                    |                         |                         |                   |    |      |    |   |             |    |      | 9.6 | —<br>34.6<br>69.3 | —<br>36<br>72 | 75.9<br>76.5<br>102.6 | 90<br>90<br>110   |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      |                  |                           |                    |                         |                         |                   |    |      |    |   |             | 20 | 22.0 | —   | —<br>34.6<br>69.3 | —<br>36<br>72 | 72.5<br>72.5<br>96.8  | 90<br>90<br>110   |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      |                  |                           |                    |                         |                         |                   |    |      |    |   |             |    |      | 9.6 | —<br>34.6<br>69.3 | —<br>36<br>72 | 82.1<br>82.8<br>108.8 | 100<br>100<br>125 |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      |                  |                           |                    |                         |                         |                   |    |      |    |   |             | 25 | 27.0 | —   | —<br>34.6<br>69.3 | —<br>36<br>72 | 78.8<br>78.8<br>103.1 | 100<br>100<br>125 |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      |                  |                           |                    |                         |                         |                   |    |      |    |   |             |    |      | 9.6 | —<br>34.6<br>69.3 | —<br>36<br>72 | 88.4<br>89.0<br>115.1 | 110<br>110<br>125 |
|                     | 380                       | 342              | 418 | 11           | 75.3 | 11           | 75.3 | 19.2         | 140  | 19.2         | 140  | 2                      | 3.6<br>(ea) | 15                      | 24.5 | —                | —<br>34.2<br>68.4         | —<br>23<br>45      | 98.2<br>98.2<br>116.1   | 110<br>110<br>125       |                   |    |      |    |   |             |    |      |     |                   |               |                       |                   |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      | 14.8             | —<br>34.2<br>68.4         | —<br>23<br>45      | 113.0<br>113.0<br>134.6 | 125<br>125<br>150       |                   |    |      |    |   |             |    |      |     |                   |               |                       |                   |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             | 20                      | 30.0 | —                | —<br>34.2<br>68.4         | —<br>23<br>45      | 105.1<br>105.1<br>123.0 | 125<br>125<br>125       |                   |    |      |    |   |             |    |      |     |                   |               |                       |                   |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      | 14.8             | —<br>34.2<br>68.4         | —<br>23<br>45      | 119.9<br>119.9<br>141.5 | 125<br>125<br>150       |                   |    |      |    |   |             |    |      |     |                   |               |                       |                   |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             | 25                      | 38.0 | —                | —<br>34.2<br>68.4         | —<br>23<br>45      | 115.1<br>115.1<br>133.0 | 150<br>150<br>150       |                   |    |      |    |   |             |    |      |     |                   |               |                       |                   |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      | 14.8             | —<br>34.2<br>68.4         | —<br>23<br>45      | 129.9<br>129.9<br>151.5 | 150<br>150<br>175       |                   |    |      |    |   |             |    |      |     |                   |               |                       |                   |

See Legend and Notes on page 20.

**Table 7A — Electrical Data — 50A2,A3,A4,A5 Units Without Convenience Outlet (cont)**

| UNIT<br>SIZE<br>50A | VOLTAGE<br>3 PH,<br>60 Hz | VOLTAGE<br>RANGE |     | COMPRESSOR   |     |              |     |              |     |              |     | CONDENSER<br>FAN MOTOR |             | EVAPORATOR<br>FAN MOTOR |      | POWER<br>EXHAUST | OPTIONAL<br>ELECTRIC HEAT |               | POWER SUPPLY            |                   |
|---------------------|---------------------------|------------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|------------------------|-------------|-------------------------|------|------------------|---------------------------|---------------|-------------------------|-------------------|
|                     |                           |                  |     | Cir A, No. 1 |     | Cir A, No. 2 |     | Cir B, No. 1 |     | Cir B, No. 2 |     |                        |             |                         |      |                  | FLA                       | kW            | MCA                     | MOCP*             |
|                     |                           | Min              | Max | FLA          | LRA | RLA          | LRA | RLA          | LRA | RLA          | LRA | Qty                    | FLA         | Hp                      | FLA  | FLA<br>(total)   | FLA                       | kW            | MCA                     | MOCP*             |
| 040                 | 208                       | 187              | 229 | 30.1         | 225 | 30.1         | 225 | 30.1         | 225 | 30.1         | 225 | 4                      | 6.5<br>(ea) | 15                      | 46.2 | —                | —<br>75.1<br>150.1        | —<br>27<br>54 | 204.2<br>204.2<br>207.9 | 250<br>250<br>250 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 23.6             | —<br>75.1<br>150.1        | —<br>27<br>54 | 227.8<br>227.8<br>237.4 | 250<br>250<br>250 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 20                      | 59.4 | —                | —<br>75.1<br>150.1        | —<br>27<br>54 | 220.7<br>220.7<br>224.4 | 250<br>250<br>250 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 23.6             | —<br>75.1<br>150.1        | —<br>27<br>54 | 244.3<br>244.3<br>253.9 | 300<br>300<br>300 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 25                      | 74.8 | —                | —<br>75.1<br>150.1        | —<br>27<br>54 | 239.9<br>239.9<br>243.6 | 300<br>300<br>300 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 23.6             | —<br>75.1<br>150.1        | —<br>27<br>54 | 263.5<br>263.5<br>273.1 | 300<br>300<br>300 |
|                     | 230                       | 207              | 253 | 30.1         | 225 | 30.1         | 225 | 30.1         | 225 | 30.1         | 225 | 4                      | 6.6<br>(ea) | 15                      | 42.0 | —                | —<br>86.6<br>173.2        | —<br>36<br>72 | 199.3<br>199.3<br>225.7 | 225<br>225<br>250 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 23.6             | —<br>86.6<br>173.2        | —<br>36<br>72 | 222.9<br>222.9<br>255.2 | 250<br>250<br>300 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 20                      | 54.0 | —                | —<br>86.6<br>173.2        | —<br>36<br>72 | 214.3<br>214.3<br>240.7 | 250<br>250<br>250 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 23.6             | —<br>86.6<br>173.2        | —<br>36<br>72 | 237.9<br>237.9<br>270.2 | 250<br>250<br>300 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 25                      | 68.0 | —                | —<br>86.6<br>173.2        | —<br>36<br>72 | 231.8<br>231.8<br>258.2 | 250<br>250<br>300 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 23.6             | —<br>86.6<br>173.2        | —<br>36<br>72 | 255.4<br>255.4<br>287.7 | 300<br>300<br>300 |
|                     | 460                       | 414              | 508 | 16.7         | 114 | 16.7         | 114 | 16.7         | 114 | 16.7         | 114 | 4                      | 3.3<br>(ea) | 15                      | 21.0 | —                | —<br>43.3<br>86.6         | —<br>36<br>72 | 106.3<br>106.3<br>112.9 | 125<br>125<br>125 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 12.6             | —<br>43.3<br>86.6         | —<br>36<br>72 | 118.9<br>118.9<br>128.6 | 125<br>125<br>150 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 20                      | 27.0 | —                | —<br>43.3<br>86.6         | —<br>36<br>72 | 113.8<br>113.8<br>120.4 | 125<br>125<br>125 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 12.6             | —<br>43.3<br>86.6         | —<br>36<br>72 | 126.4<br>126.4<br>136.1 | 150<br>150<br>150 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 25                      | 34.0 | —                | —<br>43.3<br>86.6         | —<br>36<br>72 | 122.5<br>122.5<br>129.1 | 150<br>150<br>150 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 12.6             | —<br>43.3<br>86.6         | —<br>36<br>72 | 135.1<br>135.1<br>144.9 | 150<br>150<br>175 |
|                     | 575                       | 518              | 632 | 12.2         | 80  | 12.2         | 80  | 12.2         | 80  | 12.2         | 80  | 4                      | 2.6<br>(ea) | 15                      | 17.0 | —                | —<br>34.6<br>69.3         | —<br>36<br>72 | 80.5<br>80.5<br>90.6    | 90<br>90<br>100   |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 9.6              | —<br>34.6<br>69.3         | —<br>36<br>72 | 90.1<br>90.1<br>102.6   | 100<br>100<br>110 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 20                      | 22.0 | —                | —<br>34.6<br>69.3         | —<br>36<br>72 | 86.7<br>86.7<br>96.8    | 100<br>100<br>110 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 9.6              | —<br>34.6<br>69.3         | —<br>36<br>72 | 96.3<br>96.3<br>108.8   | 110<br>110<br>125 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 25                      | 27.0 | —                | —<br>34.6<br>69.3         | —<br>36<br>72 | 93.0<br>93.0<br>103.1   | 110<br>110<br>125 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 9.6              | —<br>34.6<br>69.3         | —<br>36<br>72 | 102.6<br>102.6<br>115.1 | 125<br>125<br>125 |
|                     | 380                       | 342              | 418 | 19.2         | 140 | 19.2         | 140 | 19.2         | 140 | 19.2         | 140 | 4                      | 3.6<br>(ea) | 15                      | 24.5 | —                | —<br>34.2<br>68.4         | —<br>23<br>45 | 121.8<br>121.8<br>121.8 | 125<br>125<br>125 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 14.8             | —<br>34.2<br>68.4         | —<br>23<br>45 | 136.6<br>136.6<br>136.6 | 150<br>150<br>150 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 20                      | 30.0 | —                | —<br>34.2<br>68.4         | —<br>23<br>45 | 128.7<br>128.7<br>128.7 | 150<br>150<br>150 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 14.8             | —<br>34.2<br>68.4         | —<br>23<br>45 | 143.5<br>143.5<br>143.5 | 150<br>150<br>150 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             | 25                      | 38.0 | —                | —<br>34.2<br>68.4         | —<br>23<br>45 | 138.7<br>138.7<br>138.7 | 175<br>175<br>175 |
|                     |                           |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 14.8             | —<br>34.2<br>68.4         | —<br>23<br>45 | 153.5<br>153.5<br>153.5 | 175<br>175<br>175 |

See Legend and Notes on page 20.

**Table 7A — Electrical Data — 50A2,A3,A4,A5 Units Without Convenience Outlet (cont)**

| UNIT<br>SIZE<br>50A | VOLTAGE<br>3 PH,<br>60 Hz | VOLTAGE<br>RANGE |          | COMPRESSOR              |                   |                         |                   |              |     |              |     | CONDENSER<br>FAN MOTOR |             | EVAPORATOR<br>FAN MOTOR |              | POWER<br>EXHAUST | OPTIONAL<br>ELECTRIC HEAT |                   | POWER SUPPLY            |                   |      |     |      |     |   |             |    |      |      |               |          |                         |                   |
|---------------------|---------------------------|------------------|----------|-------------------------|-------------------|-------------------------|-------------------|--------------|-----|--------------|-----|------------------------|-------------|-------------------------|--------------|------------------|---------------------------|-------------------|-------------------------|-------------------|------|-----|------|-----|---|-------------|----|------|------|---------------|----------|-------------------------|-------------------|
|                     |                           |                  |          | Cir A, No. 1            |                   | Cir A, No. 2            |                   | Cir B, No. 1 |     | Cir B, No. 2 |     |                        |             |                         |              |                  | FLA                       | kW                | MCA                     | MOCPS*            |      |     |      |     |   |             |    |      |      |               |          |                         |                   |
|                     |                           | Min              | Max      | FLA                     | LRA               | RLA                     | LRA               | RLA          | LRA | RLA          | LRA | Qty                    | FLA         | Hp                      | FLA          | FLA<br>(total)   | FLA                       | kW                | MCA                     | MOCPS*            |      |     |      |     |   |             |    |      |      |               |          |                         |                   |
| 050                 | 208                       | 187              | 229      | 33.3                    | 239               | 33.3                    | 239               | 33.3         | 239 | 33.3         | 239 | 4                      | 6.5<br>(ea) | 20                      | 59.0         | —                | 75.1<br>150.1             | 27<br>54          | 233.5<br>233.5<br>233.5 | 250<br>250<br>250 |      |     |      |     |   |             |    |      |      |               |          |                         |                   |
|                     |                           |                  |          |                         |                   |                         |                   |              |     |              |     |                        |             |                         |              | 23.6             | 75.1<br>150.1             | 27<br>54          | 257.1<br>257.1<br>257.1 | 300<br>300<br>300 |      |     |      |     |   |             |    |      |      |               |          |                         |                   |
|                     |                           |                  |          |                         |                   |                         |                   |              |     |              |     |                        |             | 25                      | 75.0         | —                | 75.1<br>150.1             | 27<br>54          | 252.7<br>252.7<br>252.7 | 300<br>300<br>300 |      |     |      |     |   |             |    |      |      |               |          |                         |                   |
|                     |                           |                  |          |                         |                   |                         |                   |              |     |              |     |                        |             |                         |              | 23.6             | 75.1<br>150.1             | 27<br>54          | 276.3<br>276.3<br>276.3 | 350<br>350<br>350 |      |     |      |     |   |             |    |      |      |               |          |                         |                   |
|                     |                           |                  |          |                         |                   |                         |                   |              |     |              |     |                        |             | 30                      | 88.0         | —                | 75.1<br>150.1             | 27<br>54          | 269.2<br>269.2<br>269.2 | 350<br>350<br>350 |      |     |      |     |   |             |    |      |      |               |          |                         |                   |
|                     |                           |                  |          |                         |                   |                         |                   |              |     |              |     |                        |             |                         |              | 23.6             | 75.1<br>150.1             | 27<br>54          | 292.8<br>292.8<br>292.8 | 350<br>350<br>350 |      |     |      |     |   |             |    |      |      |               |          |                         |                   |
|                     |                           |                  |          |                         |                   |                         |                   |              |     |              |     |                        |             | 230                     | 207          | 253              | 33.3                      | 239               | 33.3                    | 239               | 33.3 | 239 | 33.3 | 239 | 4 | 6.6<br>(ea) | 20 | 54.0 | —    | 86.6<br>173.2 | 36<br>72 | 227.1<br>227.1<br>240.7 | 250<br>250<br>250 |
|                     |                           |                  |          |                         |                   |                         |                   |              |     |              |     |                        |             |                         |              |                  |                           |                   |                         |                   |      |     |      |     |   |             |    |      | 23.6 | 86.6<br>173.2 | 36<br>72 | 250.7<br>250.7<br>270.2 | 300<br>300<br>300 |
|                     |                           |                  |          |                         |                   |                         |                   |              |     |              |     |                        |             |                         |              |                  |                           |                   |                         |                   |      |     |      |     |   |             | 25 | 68.0 | —    | 86.6<br>173.2 | 36<br>72 | 244.6<br>244.6<br>258.2 | 300<br>300<br>300 |
|                     | 23.6                      | 86.6<br>173.2    | 36<br>72 | 268.2<br>268.2<br>287.7 | 300<br>300<br>300 |                         |                   |              |     |              |     |                        |             |                         |              |                  |                           |                   |                         |                   |      |     |      |     |   |             |    |      |      |               |          |                         |                   |
|                     | 30                        | 80.0             | —        | 86.6<br>173.2           | 36<br>72          | 259.6<br>259.6<br>273.2 | 300<br>300<br>350 |              |     |              |     |                        |             |                         |              |                  |                           |                   |                         |                   |      |     |      |     |   |             |    |      |      |               |          |                         |                   |
|                     |                           |                  | 23.6     | 86.6<br>173.2           | 36<br>72          | 283.2<br>283.2<br>302.7 | 350<br>350<br>350 |              |     |              |     |                        |             |                         |              |                  |                           |                   |                         |                   |      |     |      |     |   |             |    |      |      |               |          |                         |                   |
|                     | 460                       | 414              | 508      | 17.9                    | 125               | 17.9                    | 125               | 17.9         | 125 | 17.9         | 125 | 4                      | 3.3<br>(ea) |                         |              |                  |                           |                   |                         |                   |      |     |      |     |   |             | 20 | 27.0 | —    | 43.3<br>86.6  | 36<br>72 | 118.6<br>118.6<br>120.4 | 125<br>125<br>125 |
|                     |                           |                  |          |                         |                   |                         |                   |              |     |              |     |                        |             |                         |              |                  |                           |                   |                         |                   |      |     |      |     |   |             |    |      | 12.6 | 43.3<br>86.6  | 36<br>72 | 131.2<br>131.2<br>136.1 | 150<br>150<br>150 |
|                     |                           |                  |          |                         |                   |                         |                   |              |     |              |     |                        |             |                         |              |                  |                           |                   |                         |                   |      |     |      |     |   |             | 25 | 34.0 | —    | 43.3<br>86.6  | 36<br>72 | 127.3<br>127.3<br>129.1 | 150<br>150<br>150 |
|                     |                           |                  |          |                         |                   |                         |                   |              |     |              |     |                        |             | 12.6                    | 43.3<br>86.6 | 36<br>72         | 139.9<br>139.9<br>144.9   | 150<br>150<br>175 |                         |                   |      |     |      |     |   |             |    |      |      |               |          |                         |                   |
|                     |                           |                  |          |                         |                   |                         |                   |              |     |              |     |                        |             | 30                      | 40.0         | —                | 43.3<br>86.6              | 36<br>72          | 134.8<br>134.8<br>136.6 | 150<br>150<br>175 |      |     |      |     |   |             |    |      |      |               |          |                         |                   |
|                     |                           |                  |          |                         |                   |                         |                   |              |     |              |     |                        |             |                         |              | 12.6             | 43.3<br>86.6              | 36<br>72          | 147.4<br>147.4<br>152.4 | 175<br>175<br>175 |      |     |      |     |   |             |    |      |      |               |          |                         |                   |
|                     |                           |                  |          |                         |                   |                         |                   |              |     |              |     |                        |             | 575                     | 518          | 632              | 12.8                      | 80                | 12.8                    | 80                | 12.8 | 80  | 12.8 | 80  | 4 | 2.6<br>(ea) | 20 | 22.0 | —    | 34.6<br>69.3  | 36<br>72 | 89.1<br>89.1<br>96.8    | 110<br>110<br>110 |
|                     |                           |                  |          |                         |                   |                         |                   |              |     |              |     |                        |             |                         |              |                  |                           |                   |                         |                   |      |     |      |     |   |             |    |      | 9.6  | 34.6<br>69.3  | 36<br>72 | 98.7<br>98.7<br>108.8   | 110<br>110<br>125 |
|                     |                           |                  |          |                         |                   |                         |                   |              |     |              |     |                        |             |                         |              |                  |                           |                   |                         |                   |      |     |      |     |   |             | 25 | 27.0 | —    | 34.6<br>69.3  | 36<br>72 | 95.4<br>95.4<br>103.1   | 110<br>110<br>125 |
|                     | 9.6                       | 34.6<br>69.3     | 36<br>72 | 105.0<br>105.0<br>115.1 | 125<br>125<br>125 |                         |                   |              |     |              |     |                        |             |                         |              |                  |                           |                   |                         |                   |      |     |      |     |   |             |    |      |      |               |          |                         |                   |
|                     | 30                        | 32.0             | —        | 34.6<br>69.3            | 36<br>72          | 101.6<br>101.6<br>109.3 | 125<br>125<br>125 |              |     |              |     |                        |             |                         |              |                  |                           |                   |                         |                   |      |     |      |     |   |             |    |      |      |               |          |                         |                   |
|                     |                           |                  | 9.6      | 34.6<br>69.3            | 36<br>72          | 111.2<br>111.2<br>121.3 | 125<br>125<br>150 |              |     |              |     |                        |             |                         |              |                  |                           |                   |                         |                   |      |     |      |     |   |             |    |      |      |               |          |                         |                   |
|                     | 380                       | 342              | 418      | 23.7                    | 145               | 23.7                    | 145               | 23.7         | 145 | 23.7         | 145 | 4                      | 3.6<br>(ea) |                         |              |                  |                           |                   |                         |                   |      |     |      |     |   |             | 20 | 30.0 | —    | 34.2<br>68.4  | 23<br>45 | 146.7<br>146.7<br>146.7 | 175<br>175<br>175 |
|                     |                           |                  |          |                         |                   |                         |                   |              |     |              |     |                        |             |                         |              |                  |                           |                   |                         |                   |      |     |      |     |   |             |    |      | 14.8 | 34.2<br>68.4  | 23<br>45 | 161.5<br>161.5<br>161.5 | 175<br>175<br>175 |
|                     |                           |                  |          |                         |                   |                         |                   |              |     |              |     |                        |             |                         |              |                  |                           |                   |                         |                   |      |     |      |     |   |             | 25 | 38.0 | —    | 34.2<br>68.4  | 23<br>45 | 156.7<br>156.7<br>156.7 | 175<br>175<br>175 |
|                     |                           |                  |          |                         |                   |                         |                   |              |     |              |     |                        |             | 14.8                    | 34.2<br>68.4 | 23<br>45         | 171.5<br>171.5<br>171.5   | 200<br>200<br>200 |                         |                   |      |     |      |     |   |             |    |      |      |               |          |                         |                   |
|                     |                           |                  |          |                         |                   |                         |                   |              |     |              |     |                        |             | 30                      | 43.5         | —                | 34.2<br>68.4              | 23<br>45          | 163.6<br>163.6<br>163.6 | 200<br>200<br>200 |      |     |      |     |   |             |    |      |      |               |          |                         |                   |
|                     |                           |                  |          |                         |                   |                         |                   |              |     |              |     |                        |             |                         |              | 14.8             | 34.2<br>68.4              | 23<br>45          | 178.4<br>178.4<br>178.4 | 200<br>200<br>200 |      |     |      |     |   |             |    |      |      |               |          |                         |                   |

See Legend and Notes on page 20.

**Table 7A — Electrical Data — 50A2,A3,A4,A5 Units Without Optional Convenience Outlet (cont)**

| UNIT<br>SIZE<br>50A | VOLTAGE<br>3 PH,<br>60 Hz | VOLTAGE<br>RANGE |     | COMPRESSOR   |      |              |      |              |      |              |      | CONDENSER<br>FAN MOTOR |             | EVAPORATOR<br>FAN MOTOR |       | POWER<br>EXHAUST | OPTIONAL<br>ELECTRIC HEAT |                |                         | POWER SUPPLY            |                   |
|---------------------|---------------------------|------------------|-----|--------------|------|--------------|------|--------------|------|--------------|------|------------------------|-------------|-------------------------|-------|------------------|---------------------------|----------------|-------------------------|-------------------------|-------------------|
|                     |                           |                  |     | Cir A, No. 1 |      | Cir A, No. 2 |      | Cir B, No. 1 |      | Cir B, No. 2 |      |                        |             |                         |       |                  | FLA                       | kW             | MCA                     | MOCP*                   |                   |
|                     |                           | Min              | Max | FLA          | LRA  | RLA          | LRA  | RLA          | LRA  | RLA          | LRA  | Qty                    | FLA         | Hp                      | FLA   | FLA<br>(total)   | FLA                       | kW             | MCA                     | MOCP*                   |                   |
| 060 (MCHX)          | 208                       | 187              | 229 | 51.3         | 300  | 51.3         | 300  | 51.3         | 300  | 51.3         | 300  | 4                      | 5.5<br>(ea) | 25                      | 74.8  | —                | 112.6<br>225.2            | 41<br>81       | 320.7<br>320.7<br>320.7 | 350<br>350<br>350       |                   |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |       | 35.4             | 112.6<br>225.2            | 41<br>81       | 356.1<br>356.1<br>363.0 | 400<br>400<br>400       |                   |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             | 30                      | 88.0  | —                | 112.6<br>225.2            | 41<br>81       | 337.2<br>337.2<br>337.2 | 400<br>400<br>400       |                   |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |       | 35.4             | 112.6<br>225.2            | 41<br>81       | 372.6<br>372.6<br>379.5 | 450<br>450<br>450       |                   |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             | 40                      | 114.0 | —                | 112.6<br>225.2            | 41<br>81       | 369.7<br>369.7<br>369.7 | 450<br>450<br>450       |                   |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |       | 35.4             | 112.6<br>225.2            | 41<br>81       | 405.1<br>405.1<br>412.0 | 500<br>500<br>500       |                   |
|                     |                           | 230              | 207 | 253          | 51.3 | 300          | 51.3 | 300          | 51.3 | 300          | 51.3 | 300                    | 4           | 5.8<br>(ea)             | 25    | 68.0             | —                         | 129.9<br>259.8 | 54<br>108               | 313.4<br>313.4<br>344.8 | 350<br>350<br>400 |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |       |                  | 35.4                      | 129.9<br>259.8 | 54<br>108               | 348.8<br>348.8<br>389.1 | 400<br>400<br>400 |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         | 30    | 80.0             | —                         | 129.9<br>259.8 | 54<br>108               | 328.4<br>328.4<br>359.8 | 400<br>400<br>400 |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |       |                  | 35.4                      | 129.9<br>259.8 | 54<br>108               | 363.8<br>363.8<br>404.1 | 400<br>400<br>450 |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         | 40    | 104.0            | —                         | 129.9<br>259.8 | 54<br>108               | 358.4<br>358.4<br>389.8 | 450<br>450<br>450 |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |       |                  | 35.4                      | 129.9<br>259.8 | 54<br>108               | 393.8<br>393.8<br>434.1 | 450<br>450<br>500 |
|                     | 460                       |                  | 414 | 508          | 22.4 | 150          | 22.4 | 150          | 22.4 | 150          | 22.4 | 150                    | 4           | 2.9<br>(ea)             | 25    | 34.0             | —                         | 65.0<br>129.9  | 54<br>108               | 143.7<br>143.7<br>172.4 | 175<br>175<br>200 |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |       |                  | 18.9                      | 65.0<br>129.9  | 54<br>108               | 162.6<br>162.6<br>196.0 | 175<br>175<br>225 |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         | 30    | 40.0             | —                         | 65.0<br>129.9  | 54<br>108               | 151.2<br>151.2<br>179.9 | 175<br>175<br>200 |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |       |                  | 18.9                      | 65.0<br>129.9  | 54<br>108               | 170.1<br>170.1<br>203.5 | 200<br>200<br>225 |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         | 40    | 52.0             | —                         | 65.0<br>129.9  | 54<br>108               | 166.2<br>166.2<br>194.9 | 200<br>200<br>225 |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |       |                  | 18.9                      | 65.0<br>129.9  | 54<br>108               | 185.1<br>185.1<br>218.5 | 225<br>225<br>250 |
|                     |                           | 575              | 518 | 632          | 19.9 | 109          | 19.9 | 190          | 19.9 | 109          | 19.9 | 109                    | 4           | 2.3<br>(ea)             | 25    | 27.0             | —                         | 65.0<br>129.9  | 54<br>108               | 122.6<br>122.6<br>137.7 | 125<br>125<br>150 |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |       |                  | 14.4                      | 65.0<br>129.9  | 54<br>108               | 137.0<br>137.0<br>155.7 | 150<br>150<br>175 |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         | 30    | 32.0             | —                         | 65.0<br>129.9  | 54<br>108               | 128.8<br>128.8<br>143.9 | 150<br>150<br>175 |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |       |                  | 14.4                      | 65.0<br>129.9  | 54<br>108               | 143.2<br>143.2<br>161.9 | 175<br>175<br>175 |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         | 40    | 41.0             | —                         | 65.0<br>129.9  | 54<br>108               | 140.1<br>140.1<br>155.2 | 175<br>175<br>175 |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |       |                  | 14.4                      | 65.0<br>129.9  | 54<br>108               | 154.5<br>154.5<br>173.2 | 175<br>175<br>200 |
|                     | 380                       |                  | 342 | 418          | 26.9 | 139          | 26.9 | 139          | 26.9 | 139          | 26.9 | 139                    | 4           | 3.7<br>(ea)             | 25    | 38.0             | —                         | 51.4<br>102.8  | 33.8<br>67.7            | 169.9<br>169.9<br>169.9 | 200<br>200<br>200 |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |       |                  | 22.2                      | 51.4<br>102.8  | 33.8<br>67.7            | 192.1<br>192.1<br>192.1 | 225<br>225<br>225 |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         | 30    | 43.5             | —                         | 51.4<br>102.8  | 33.8<br>67.7            | 176.8<br>176.8<br>176.8 | 200<br>200<br>200 |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |       |                  | 22.2                      | 51.4<br>102.8  | 33.8<br>67.7            | 199.0<br>199.0<br>199.0 | 225<br>225<br>225 |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         | 40    | 56.2             | —                         | 51.4<br>102.8  | 33.8<br>67.7            | 192.7<br>192.7<br>192.7 | 225<br>225<br>225 |
|                     |                           |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |       |                  | 22.2                      | 51.4<br>102.8  | 33.8<br>67.7            | 214.9<br>214.9<br>214.9 | 250<br>250<br>250 |

See Legend and Notes on page 20.

**Table 7A — Electrical Data — 50A2,A3,A4,A5 Units Without Optional Convenience Outlet (cont)**

| UNIT<br>SIZE<br>50A | VOLTAGE<br>3 PH,<br>60 Hz | VOLTAGE<br>RANGE |               | COMPRESSOR    |                         |                         |                         |                   |      |              |     | CONDENSER<br>FAN MOTOR |             | EVAPORATOR<br>FAN MOTOR |      | POWER<br>EXHAUST | OPTIONAL<br>ELECTRIC HEAT |                         | POWER SUPPLY            |                   |
|---------------------|---------------------------|------------------|---------------|---------------|-------------------------|-------------------------|-------------------------|-------------------|------|--------------|-----|------------------------|-------------|-------------------------|------|------------------|---------------------------|-------------------------|-------------------------|-------------------|
|                     |                           |                  |               | Cir A, No. 1  |                         | Cir A, No. 2            |                         | Cir B, No. 1      |      | Cir B, No. 2 |     |                        |             |                         |      |                  | FLA                       | kW                      | MCA                     | MOCP*             |
|                     |                           | Min              | Max           | FLA           | LRA                     | RLA                     | LRA                     | RLA               | LRA  | RLA          | LRA | Qty                    | FLA         | Hp                      | FLA  | FLA<br>(total)   | FLA                       | kW                      | MCA                     | MOCP*             |
| 060<br>(RTPF)       | 208                       | 187              | 229           | 51.3          | 300                     | 51.3                    | 300                     | 51.3              | 300  | 51.3         | 300 | 6                      | 6.5<br>(ea) | 25                      | 74.8 | —                | 112.6<br>225.2            | 41<br>81                | 333.7<br>333.7<br>333.7 | 400<br>400<br>400 |
|                     |                           |                  |               |               |                         |                         |                         |                   |      |              |     |                        |             |                         |      | 35.4             | 112.6<br>225.2            | 41<br>81                | 373.1<br>373.1<br>373.0 | 400<br>400<br>400 |
|                     |                           |                  |               |               |                         |                         |                         |                   |      |              |     |                        |             |                         |      | —                | 112.6<br>225.2            | 41<br>81                | 354.2<br>354.2<br>354.2 | 400<br>400<br>400 |
|                     |                           |                  |               |               |                         |                         |                         |                   |      |              |     |                        |             |                         |      | 35.4             | 112.6<br>225.2            | 41<br>81                | 389.6<br>389.6<br>389.6 | 450<br>450<br>450 |
|                     |                           |                  |               |               |                         |                         |                         |                   |      |              |     |                        |             |                         |      | —                | 112.6<br>225.2            | 41<br>81                | 386.7<br>386.7<br>386.7 | 500<br>500<br>500 |
|                     |                           |                  |               |               |                         |                         |                         |                   |      |              |     |                        |             |                         |      | 35.4             | 112.6<br>225.2            | 41<br>81                | 422.1<br>422.1<br>422.1 | 500<br>500<br>500 |
|                     |                           | 30               | 88.0          | —             | 112.6<br>225.2          | 41<br>81                | 354.2<br>354.2<br>354.2 | 400<br>400<br>400 |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |
|                     |                           |                  |               | 35.4          | 112.6<br>225.2          | 41<br>81                | 389.6<br>389.6<br>389.6 | 450<br>450<br>450 |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |
|                     |                           |                  |               | —             | 112.6<br>225.2          | 41<br>81                | 386.7<br>386.7<br>386.7 | 500<br>500<br>500 |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |
|                     |                           |                  |               | 35.4          | 112.6<br>225.2          | 41<br>81                | 422.1<br>422.1<br>422.1 | 500<br>500<br>500 |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |
|                     |                           |                  |               | —             | 112.6<br>225.2          | 41<br>81                | 386.7<br>386.7<br>386.7 | 500<br>500<br>500 |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |
|                     |                           |                  |               | 35.4          | 112.6<br>225.2          | 41<br>81                | 422.1<br>422.1<br>422.1 | 500<br>500<br>500 |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |
|                     | 230                       | 207              | 253           | 51.3          | 300                     | 51.3                    | 300                     | 51.3              | 300  | 51.3         | 300 | 6                      | 6.6<br>(ea) | 25                      | 68.0 | —                | 129.9<br>259.8            | 54<br>108               | 329.8<br>329.8<br>344.8 | 350<br>350<br>400 |
|                     |                           |                  |               |               |                         |                         |                         |                   |      |              |     |                        |             |                         |      | 35.4             | 129.9<br>259.8            | 54<br>108               | 365.2<br>365.2<br>389.1 | 400<br>400<br>400 |
|                     |                           |                  |               |               |                         |                         |                         |                   |      |              |     |                        |             |                         |      | —                | 129.9<br>259.8            | 54<br>108               | 344.8<br>344.8<br>359.8 | 400<br>400<br>400 |
|                     |                           |                  |               |               |                         |                         |                         |                   |      |              |     |                        |             |                         |      | 35.4             | 129.9<br>259.8            | 54<br>108               | 380.2<br>380.2<br>404.1 | 450<br>450<br>450 |
|                     |                           |                  |               |               |                         |                         |                         |                   |      |              |     |                        |             |                         |      | —                | 129.9<br>259.8            | 54<br>108               | 374.8<br>374.8<br>389.8 | 450<br>450<br>450 |
|                     |                           |                  |               |               |                         |                         |                         |                   |      |              |     |                        |             |                         |      | 35.4             | 129.9<br>259.8            | 54<br>108               | 410.2<br>410.2<br>434.1 | 500<br>500<br>500 |
|                     |                           | 30               | 80.0          | —             | 129.9<br>259.8          | 54<br>108               | 344.8<br>344.8<br>359.8 | 400<br>400<br>400 |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |
|                     |                           |                  |               | 35.4          | 129.9<br>259.8          | 54<br>108               | 380.2<br>380.2<br>404.1 | 450<br>450<br>450 |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |
|                     |                           |                  |               | —             | 129.9<br>259.8          | 54<br>108               | 374.8<br>374.8<br>389.8 | 450<br>450<br>450 |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |
|                     |                           |                  |               | 35.4          | 129.9<br>259.8          | 54<br>108               | 410.2<br>410.2<br>434.1 | 500<br>500<br>500 |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |
|                     |                           |                  |               | —             | 129.9<br>259.8          | 54<br>108               | 374.8<br>374.8<br>389.8 | 450<br>450<br>450 |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |
|                     |                           |                  |               | 35.4          | 129.9<br>259.8          | 54<br>108               | 410.2<br>410.2<br>434.1 | 500<br>500<br>500 |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |
|                     | 460                       | 414              | 508           | 22.4          | 150                     | 22.4                    | 150                     | 22.4              | 150  | 22.4         | 150 | 6                      | 3.3<br>(ea) | 25                      | 34.0 | —                | 65.0<br>129.9             | 54<br>108               | 151.9<br>151.9<br>172.4 | 175<br>175<br>200 |
|                     |                           |                  |               |               |                         |                         |                         |                   |      |              |     |                        |             |                         |      | 18.9             | 65.0<br>129.9             | 54<br>108               | 170.8<br>170.8<br>196.0 | 200<br>200<br>225 |
|                     |                           |                  |               |               |                         |                         |                         |                   |      |              |     |                        |             |                         |      | —                | 65.0<br>129.9             | 54<br>108               | 159.4<br>159.4<br>179.9 | 175<br>175<br>200 |
|                     |                           |                  |               |               |                         |                         |                         |                   |      |              |     |                        |             |                         |      | 18.9             | 65.0<br>129.9             | 54<br>108               | 178.3<br>178.3<br>203.5 | 200<br>200<br>225 |
|                     |                           |                  |               |               |                         |                         |                         |                   |      |              |     |                        |             |                         |      | —                | 65.0<br>129.9             | 54<br>108               | 174.4<br>174.4<br>194.9 | 225<br>225<br>225 |
|                     |                           |                  |               |               |                         |                         |                         |                   |      |              |     |                        |             |                         |      | 18.9             | 65.0<br>129.9             | 54<br>108               | 193.3<br>193.3<br>218.5 | 225<br>225<br>250 |
|                     |                           | 30               | 40.0          | —             | 65.0<br>129.9           | 54<br>108               | 159.4<br>159.4<br>179.9 | 175<br>175<br>200 |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |
|                     |                           |                  |               | 18.9          | 65.0<br>129.9           | 54<br>108               | 178.3<br>178.3<br>203.5 | 200<br>200<br>225 |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |
|                     |                           |                  |               | —             | 65.0<br>129.9           | 54<br>108               | 174.4<br>174.4<br>194.9 | 225<br>225<br>225 |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |
|                     |                           |                  |               | 18.9          | 65.0<br>129.9           | 54<br>108               | 193.3<br>193.3<br>218.5 | 225<br>225<br>250 |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |
|                     |                           |                  |               | —             | 65.0<br>129.9           | 54<br>108               | 174.4<br>174.4<br>194.9 | 225<br>225<br>225 |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |
|                     |                           |                  |               | 18.9          | 65.0<br>129.9           | 54<br>108               | 193.3<br>193.3<br>218.5 | 225<br>225<br>250 |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |
| 575                 | 518                       | 632              | 19.9          | 109           | 19.9                    | 190                     | 19.9                    | 109               | 19.9 | 109          | 6   | 2.6<br>(ea)            | 25          | 27.0                    | —    | 52.0<br>103.9    | 54<br>108                 | 129.0<br>129.0<br>137.7 | 150<br>150<br>150       |                   |
|                     |                           |                  |               |               |                         |                         |                         |                   |      |              |     |                        |             |                         | 14.4 | 52.0<br>103.9    | 54<br>108                 | 143.4<br>143.4<br>155.7 | 150<br>150<br>175       |                   |
|                     |                           |                  |               |               |                         |                         |                         |                   |      |              |     |                        |             |                         | —    | 52.0<br>103.9    | 54<br>108                 | 135.2<br>135.2<br>143.9 | 150<br>150<br>175       |                   |
|                     |                           |                  |               |               |                         |                         |                         |                   |      |              |     |                        |             |                         | 14.4 | 52.0<br>103.9    | 54<br>108                 | 149.6<br>149.6<br>161.9 | 175<br>175<br>175       |                   |
|                     |                           |                  |               |               |                         |                         |                         |                   |      |              |     |                        |             |                         | —    | 52.0<br>103.9    | 54<br>108                 | 146.5<br>146.5<br>155.2 | 175<br>175<br>175       |                   |
|                     |                           |                  |               |               |                         |                         |                         |                   |      |              |     |                        |             |                         | 14.4 | 52.0<br>103.9    | 54<br>108                 | 160.9<br>160.9<br>173.2 | 200<br>200<br>200       |                   |
|                     | 30                        | 32.0             | —             | 52.0<br>103.9 | 54<br>108               | 135.2<br>135.2<br>143.9 | 150<br>150<br>175       |                   |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |
|                     |                           |                  | 14.4          | 52.0<br>103.9 | 54<br>108               | 149.6<br>149.6<br>161.9 | 175<br>175<br>175       |                   |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |
|                     |                           |                  | —             | 52.0<br>103.9 | 54<br>108               | 146.5<br>146.5<br>155.2 | 175<br>175<br>175       |                   |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |
|                     |                           |                  | 14.4          | 52.0<br>103.9 | 54<br>108               | 160.9<br>160.9<br>173.2 | 200<br>200<br>200       |                   |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |
|                     |                           |                  | —             | 52.0<br>103.9 | 54<br>108               | 146.5<br>146.5<br>155.2 | 175<br>175<br>175       |                   |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |
|                     |                           |                  | 14.4          | 52.0<br>103.9 | 54<br>108               | 160.9<br>160.9<br>173.2 | 200<br>200<br>200       |                   |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |
| 380                 | 342                       | 418              | 26.9          | 139           | 26.9                    | 139                     | 26.9                    | 139               | 26.9 | 139          | 6   | 3.6<br>(ea)            | 25          | 38.0                    | —    | 51.4<br>102.8    | 33.8<br>67.7              | 151.9<br>151.9<br>172.4 | 175<br>175<br>200       |                   |
|                     |                           |                  |               |               |                         |                         |                         |                   |      |              |     |                        |             |                         | 22.2 | 51.4<br>102.8    | 33.8<br>67.7              | 170.8<br>170.8<br>196.0 | 200<br>200<br>225       |                   |
|                     |                           |                  |               |               |                         |                         |                         |                   |      |              |     |                        |             |                         | —    | 51.4<br>102.8    | 33.8<br>67.7              | 159.4<br>159.4<br>179.9 | 175<br>175<br>200       |                   |
|                     |                           |                  |               |               |                         |                         |                         |                   |      |              |     |                        |             |                         | 22.2 | 51.4<br>102.8    | 33.8<br>67.7              | 178.3<br>178.3<br>203.5 | 200<br>200<br>225       |                   |
|                     |                           |                  |               |               |                         |                         |                         |                   |      |              |     |                        |             |                         | —    | 51.4<br>102.8    | 33.8<br>67.7              | 174.4<br>174.4<br>194.9 | 225<br>225<br>225       |                   |
|                     |                           |                  |               |               |                         |                         |                         |                   |      |              |     |                        |             |                         | 22.2 | 51.4<br>102.8    | 33.8<br>67.7              | 193.3<br>193.3<br>218.5 | 225<br>225<br>250       |                   |
|                     | 30                        | 43.5             | —             | 51.4<br>102.8 | 33.8<br>67.7            | 159.4<br>159.4<br>179.9 | 175<br>175<br>200       |                   |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |
|                     |                           |                  | 22.2          | 51.4<br>102.8 | 33.8<br>67.7            | 178.3<br>178.3<br>203.5 | 200<br>200<br>225       |                   |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |
|                     |                           |                  | —             | 51.4<br>102.8 | 33.8<br>67.7            | 174.4<br>174.4<br>194.9 | 225<br>225<br>225       |                   |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |
|                     |                           |                  | 22.2          | 51.4<br>102.8 | 33.8<br>67.7            | 193.3<br>193.3<br>218.5 | 225<br>225<br>250       |                   |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |
|                     |                           |                  | —             | 51.4<br>102.8 | 33.8<br>67.7            | 174.4<br>174.4<br>194.9 | 225<br>225<br>225       |                   |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |
|                     |                           |                  | 22.2          | 51.4<br>102.8 | 33.8<br>67.7            | 193.3<br>193.3<br>218.5 | 225<br>225<br>250       |                   |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |
| 40                  | 56.2                      | —                | 51.4<br>102.8 | 33.8<br>67.7  | 174.4<br>174.4<br>194.9 | 225<br>225<br>225       |                         |                   |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |
|                     |                           | 22.2             | 51.4<br>102.8 | 33.8<br>67.7  | 193.3<br>193.3<br>218.5 | 225<br>225<br>250       |                         |                   |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |
|                     |                           | —                | 51.4<br>102.8 | 33.8<br>67.7  | 174.4<br>174.4<br>194.9 | 225<br>225<br>225       |                         |                   |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |
|                     |                           | 22.2             | 51.4<br>102.8 | 33.8<br>67.7  | 193.3<br>193.3<br>218.5 | 225<br>225<br>250       |                         |                   |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |
|                     |                           | —                | 51.4<br>102.8 | 33.8<br>67.7  | 174.4<br>174.4<br>194.9 | 225<br>225<br>225       |                         |                   |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |
|                     |                           | 22.2             | 51.4<br>102.8 | 33.8<br>67.7  | 193.3<br>193.3<br>218.5 | 225<br>225<br>250       |                         |                   |      |              |     |                        |             |                         |      |                  |                           |                         |                         |                   |

**Table 7B — Electrical Data — 50A2,A3,A4,A5 Units With Convenience Outlet**

| UNIT<br>SIZE<br>50A | VOLTAGE<br>3 PH, 60 Hz | VOLTAGE<br>RANGE |     | COMPRESSOR   |     |              |     |              |     |              |     | CONDENSER<br>FAN MOTOR |             | EVAPORATOR<br>FAN MOTOR |      | POWER<br>EXHAUST | CONVENIENCE<br>OUTLET | OPTIONAL<br>ELECTRIC HEAT |                   | POWER SUPPLY            |                   |                         |                   |                         |                   |             |   |      |      |                   |                    |                   |                         |                   |                         |                   |                         |                   |
|---------------------|------------------------|------------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|------------------------|-------------|-------------------------|------|------------------|-----------------------|---------------------------|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------|---|------|------|-------------------|--------------------|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|-------------------|
|                     |                        |                  |     | Cir A, No. 1 |     | Cir A, No. 2 |     | Cir B, No. 1 |     | Cir B, No. 2 |     |                        |             |                         |      |                  |                       |                           |                   |                         |                   |                         |                   |                         |                   |             |   |      |      |                   |                    |                   |                         |                   |                         |                   |                         |                   |
|                     |                        | Min              | Max | RLA          | LRA | RLA          | LRA | RLA          | LRA | RLA          | LRA | Qty                    | FLA         | Hp                      | FLA  | FLA<br>(total)   | FLA                   | FLA                       | kW                | MCA                     | MOCP*             |                         |                   |                         |                   |             |   |      |      |                   |                    |                   |                         |                   |                         |                   |                         |                   |
| 020                 | 208                    | 187              | 229 | 22.4         | 149 | 22.4         | 149 | 29.5         | 195 | —            | —   | 2                      | 6.5<br>(ea) | 5                       | 16.7 | —                | 7.0<br>7.0<br>7.0     | —<br>75.1<br>150.1        | —<br>27<br>54     | 118.4<br>123.5<br>179.7 | 125<br>125<br>200 |                         |                   |                         |                   |             |   |      |      |                   |                    |                   |                         |                   |                         |                   |                         |                   |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 23.6             | 7.0<br>7.0<br>7.0     | —<br>75.1<br>150.1        | —<br>27<br>54     | 142.0<br>153.0<br>209.2 | 150<br>175<br>225 |                         |                   |                         |                   |             |   |      |      |                   |                    |                   |                         |                   |                         |                   |                         |                   |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 10               | 30.8                  | —                         | 7.0<br>7.0<br>7.0 | —<br>75.1<br>150.1      | —<br>27<br>54     | 132.8<br>141.1<br>197.4 | 150<br>150<br>225 |                         |                   |             |   |      |      |                   |                    |                   |                         |                   |                         |                   |                         |                   |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      |                  |                       | 23.6                      | 7.0<br>7.0<br>7.0 | —<br>75.1<br>150.1      | —<br>27<br>54     | 156.4<br>170.6<br>226.9 | 175<br>175<br>250 |                         |                   |             |   |      |      |                   |                    |                   |                         |                   |                         |                   |                         |                   |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      |                  |                       | 15                        | 46.2              | —                       | 7.0<br>7.0<br>7.0 | —<br>75.1<br>150.1      | —<br>27<br>54     | 152.1<br>160.4<br>216.6 | 175<br>175<br>250 |             |   |      |      |                   |                    |                   |                         |                   |                         |                   |                         |                   |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      |                  |                       |                           |                   | 23.6                    | 7.0<br>7.0<br>7.0 | —<br>75.1<br>150.1      | —<br>27<br>54     | 175.7<br>189.9<br>246.1 | 200<br>200<br>250 |             |   |      |      |                   |                    |                   |                         |                   |                         |                   |                         |                   |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             | 230                     | 207  | 253              | 22.4                  | 149                       | 22.4              | 149                     | 29.5              | 195                     | —                 | —                       | 2                 | 6.6<br>(ea) | 5 | 15.2 | —    | 7.0<br>7.0<br>7.0 | —<br>86.6<br>173.2 | —<br>36<br>72     | 117.1<br>136.0<br>201.0 | 125<br>150<br>225 |                         |                   |                         |                   |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      |                  |                       |                           |                   |                         |                   |                         |                   |                         |                   |             |   |      | 23.6 | 7.0<br>7.0<br>7.0 | —<br>86.6<br>173.2 | —<br>36<br>72     | 140.7<br>165.5<br>230.5 | 150<br>175<br>250 |                         |                   |                         |                   |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      |                  |                       |                           |                   |                         |                   |                         |                   |                         |                   |             |   |      | 10   | 28.0              | —                  | 7.0<br>7.0<br>7.0 | —<br>86.6<br>173.2      | —<br>36<br>72     | 129.9<br>152.0<br>217.0 | 150<br>175<br>225 |                         |                   |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      |                  |                       |                           |                   |                         |                   |                         |                   |                         |                   |             |   |      |      |                   | 23.6               | 7.0<br>7.0<br>7.0 | —<br>86.6<br>173.2      | —<br>36<br>72     | 153.5<br>181.5<br>246.5 | 175<br>200<br>250 |                         |                   |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      |                  |                       |                           |                   |                         |                   |                         |                   |                         |                   |             |   |      |      |                   | 15                 | 42.0              | —                       | 7.0<br>7.0<br>7.0 | —<br>86.6<br>173.2      | —<br>36<br>72     | 147.0<br>169.5<br>234.5 | 175<br>175<br>250 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      |                  |                       |                           |                   |                         |                   |                         |                   |                         |                   |             |   |      |      |                   |                    |                   | 23.6                    | 7.0<br>7.0<br>7.0 | —<br>86.6<br>173.2      | —<br>36<br>72     | 170.6<br>199.0<br>264.0 | 200<br>200<br>300 |
|                     | 460                    | 414              | 508 | 10.6         | 75  | 10.6         | 75  | 14.7         | 95  | —            | —   | 2                      | 3.3<br>(ea) |                         |      |                  |                       |                           |                   |                         |                   |                         |                   |                         |                   |             | 5 | 7.6  | —    | 3.5<br>3.5<br>3.5 | —<br>43.3<br>86.6  | —<br>36<br>72     | 57.3<br>68.0<br>100.5   | 70<br>70<br>110   |                         |                   |                         |                   |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      |                  |                       |                           |                   |                         |                   |                         |                   |                         |                   |             |   |      | 12.6 | 3.5<br>3.5<br>3.5 | —<br>43.3<br>86.6  | —<br>36<br>72     | 69.9<br>83.8<br>116.2   | 80<br>90<br>125   |                         |                   |                         |                   |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      |                  |                       |                           |                   |                         |                   |                         |                   |                         |                   |             |   |      | 10   | 14.0              | —                  | 3.5<br>3.5<br>3.5 | —<br>43.3<br>86.6       | —<br>36<br>72     | 63.7<br>76.0<br>108.5   | 70<br>80<br>110   |                         |                   |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      |                  |                       |                           |                   |                         |                   |                         |                   |                         |                   |             |   |      |      |                   | 12.6               | 3.5<br>3.5<br>3.5 | —<br>43.3<br>86.6       | —<br>36<br>72     | 76.3<br>91.8<br>124.2   | 90<br>100<br>125  |                         |                   |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      |                  |                       |                           |                   |                         |                   |                         |                   |                         |                   |             |   |      |      |                   | 15                 | 21.0              | —                       | 3.5<br>3.5<br>3.5 | —<br>43.3<br>86.6       | —<br>36<br>72     | 72.3<br>84.8<br>117.2   | 90<br>90<br>125   |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      |                  |                       |                           |                   |                         |                   |                         |                   |                         |                   |             |   |      |      |                   |                    |                   | 12.6                    | 3.5<br>3.5<br>3.5 | —<br>43.3<br>86.6       | —<br>36<br>72     | 84.9<br>100.5<br>133.0  | 100<br>110<br>150 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             | 575                     | 518  | 632              | 7.7                   | 54                        | 7.7               | 54                      | 12.2              | 80                      | —                 | —                       | 2                 | 2.6<br>(ea) | 5 | 6.1  | —    | 2.5<br>2.5<br>2.5 | —<br>34.6<br>69.3  | —<br>36<br>72     | 44.5<br>54.0<br>80.1    | 50<br>60<br>90    |                         |                   |                         |                   |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      |                  |                       |                           |                   |                         |                   |                         |                   |                         |                   |             |   |      | 9.6  | 2.5<br>2.5<br>2.5 | —<br>34.6<br>69.3  | —<br>36<br>72     | 54.1<br>66.0<br>92.1    | 60<br>70<br>100   |                         |                   |                         |                   |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      |                  |                       |                           |                   |                         |                   |                         |                   |                         |                   |             |   |      | 10   | 11.0              | —                  | 2.5<br>2.5<br>2.5 | —<br>34.6<br>69.3       | —<br>36<br>72     | 49.4<br>60.1<br>86.2    | 60<br>70<br>90    |                         |                   |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      |                  |                       |                           |                   |                         |                   |                         |                   |                         |                   |             |   |      |      |                   | 9.6                | 2.5<br>2.5<br>2.5 | —<br>34.6<br>69.3       | —<br>36<br>72     | 59.0<br>72.1<br>98.2    | 70<br>80<br>100   |                         |                   |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      |                  |                       |                           |                   |                         |                   |                         |                   |                         |                   |             |   |      |      |                   | 15                 | 17.0              | —                       | 2.5<br>2.5<br>2.5 | —<br>34.6<br>69.3       | —<br>36<br>72     | 56.6<br>67.6<br>93.7    | 70<br>70<br>110   |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      |                  |                       |                           |                   |                         |                   |                         |                   |                         |                   |             |   |      |      |                   |                    |                   | 9.6                     | 2.5<br>2.5<br>2.5 | —<br>34.6<br>69.3       | —<br>36<br>72     | 66.2<br>79.6<br>105.7   | 80<br>80<br>110   |

**Table 7B — Electrical Data — 50A2,A3,A4,A5 Units With Convenience Outlet (cont)**

| UNIT<br>SIZE<br>50A | VOLTAGE<br>3 PH, 60 Hz | VOLTAGE<br>RANGE |     | COMPRESSOR   |      |              |      |              |      |              |     | CONDENSER<br>FAN MOTOR |             | EVAPORATOR<br>FAN MOTOR |      | POWER<br>EXHAUST | CONVENIENCE<br>OUTLET | OPTIONAL<br>ELECTRIC HEAT |                    | POWER SUPPLY            |                         |                   |
|---------------------|------------------------|------------------|-----|--------------|------|--------------|------|--------------|------|--------------|-----|------------------------|-------------|-------------------------|------|------------------|-----------------------|---------------------------|--------------------|-------------------------|-------------------------|-------------------|
|                     |                        |                  |     | Cir A, No. 1 |      | Cir A, No. 2 |      | Cir B, No. 1 |      | Cir B, No. 2 |     |                        |             |                         |      |                  |                       |                           |                    |                         |                         |                   |
|                     |                        | Min              | Max | RLA          | LRA  | RLA          | LRA  | RLA          | LRA  | RLA          | LRA | Qty                    | FLA         | Hp                      | FLA  | FLA<br>(total)   | FLA                   | FLA                       | kW                 | MCA                     | MOCP*                   |                   |
| 025                 | 208                    | 187              | 229 | 29.5         | 195  | 29.5         | 195  | 29.5         | 195  | —            | —   | 2                      | 6.5<br>(ea) | 5                       | 16.7 | —                | 7.0<br>7.0<br>7.0     | —<br>75.1<br>150.1        | —<br>27<br>54      | 132.6<br>132.6<br>179.7 | 150<br>150<br>200       |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |     |                        |             |                         |      | 23.6             | 7.0<br>7.0<br>7.0     | —<br>75.1<br>150.1        | —<br>27<br>54      | 156.2<br>156.2<br>209.2 | 175<br>175<br>225       |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |     |                        |             | 10                      | 30.8 | —                | 7.0<br>7.0<br>7.0     | —<br>75.1<br>150.1        | —<br>27<br>54      | 147.0<br>147.0<br>197.4 | 175<br>175<br>225       |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |     |                        |             |                         |      | 23.6             | 7.0<br>7.0<br>7.0     | —<br>75.1<br>150.1        | —<br>27<br>54      | 170.6<br>170.6<br>226.9 | 200<br>200<br>250       |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |     |                        |             | 15                      | 46.2 | —                | 7.0<br>7.0<br>7.0     | —<br>75.1<br>150.1        | —<br>27<br>54      | 166.3<br>166.3<br>216.6 | 200<br>200<br>250       |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |     |                        |             |                         |      | 23.6             | 7.0<br>7.0<br>7.0     | —<br>75.1<br>150.1        | —<br>27<br>54      | 189.9<br>189.9<br>246.1 | 225<br>225<br>250       |                   |
|                     |                        | 230              | 207 | 253          | 29.5 | 195          | 29.5 | 195          | 29.5 | 195          | —   | —                      | 2           | 6.6<br>(ea)             | 5    | 15.2             | —                     | 7.0<br>7.0<br>7.0         | —<br>86.6<br>173.2 | —<br>36<br>72           | 131.3<br>136.0<br>201.0 | 150<br>150<br>225 |
|                     |                        |                  |     |              |      |              |      |              |      |              |     |                        |             |                         |      |                  | 23.6                  | 7.0<br>7.0<br>7.0         | —<br>86.6<br>173.2 | —<br>36<br>72           | 154.9<br>165.5<br>230.5 | 175<br>175<br>250 |
|                     |                        |                  |     |              |      |              |      |              |      |              |     |                        |             |                         | 10   | 28.0             | —                     | 7.0<br>7.0<br>7.0         | —<br>86.6<br>173.2 | —<br>36<br>72           | 144.1<br>152.0<br>217.0 | 150<br>175<br>225 |
|                     |                        |                  |     |              |      |              |      |              |      |              |     |                        |             |                         |      |                  | 23.6                  | 7.0<br>7.0<br>7.0         | —<br>86.6<br>173.2 | —<br>36<br>72           | 167.7<br>181.5<br>246.5 | 175<br>200<br>250 |
|                     |                        |                  |     |              |      |              |      |              |      |              |     |                        |             |                         | 15   | 42.0             | —                     | 7.0<br>7.0<br>7.0         | —<br>86.6<br>173.2 | —<br>36<br>72           | 161.2<br>169.5<br>234.5 | 200<br>200<br>250 |
|                     |                        |                  |     |              |      |              |      |              |      |              |     |                        |             |                         |      |                  | 23.6                  | 7.0<br>7.0<br>7.0         | —<br>86.6<br>173.2 | —<br>36<br>72           | 184.8<br>199.0<br>264.0 | 225<br>225<br>300 |
|                     | 460                    | 414              | 508 | 14.7         | 95   | 14.7         | 95   | 14.7         | 95   | —            | —   | 2                      | 3.3<br>(ea) | 5                       | 7.6  | —                | 3.5<br>3.5<br>3.5     | —<br>43.3<br>86.6         | —<br>36<br>72      | 65.5<br>68.0<br>100.5   | 80<br>80<br>110         |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |     |                        |             |                         |      | 12.6             | 3.5<br>3.5<br>3.5     | —<br>43.3<br>86.6         | —<br>36<br>72      | 78.1<br>83.8<br>116.2   | 90<br>90<br>125         |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |     |                        |             | 10                      | 14.0 | —                | 3.5<br>3.5<br>3.5     | —<br>43.3<br>86.6         | —<br>36<br>72      | 71.9<br>76.0<br>108.5   | 80<br>80<br>110         |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |     |                        |             |                         |      | 12.6             | 3.5<br>3.5<br>3.5     | —<br>43.3<br>86.6         | —<br>36<br>72      | 84.5<br>91.8<br>124.2   | 90<br>100<br>125        |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |     |                        |             | 15                      | 21.0 | —                | 3.5<br>3.5<br>3.5     | —<br>43.3<br>86.6         | —<br>36<br>72      | 80.5<br>84.8<br>117.2   | 100<br>100<br>125       |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |     |                        |             |                         |      | 12.6             | 3.5<br>3.5<br>3.5     | —<br>43.3<br>86.6         | —<br>36<br>72      | 93.1<br>100.5<br>133.0  | 110<br>110<br>150       |                   |
|                     |                        | 575              | 518 | 632          | 12.2 | 80           | 12.2 | 80           | 12.2 | 80           | —   | —                      | 2           | 2.6<br>(ea)             | 5    | 6.1              | —                     | 2.5<br>2.5<br>2.5         | —<br>34.6<br>69.3  | —<br>36<br>72           | 53.5<br>54.0<br>80.1    | 60<br>60<br>90    |
|                     |                        |                  |     |              |      |              |      |              |      |              |     |                        |             |                         |      |                  | 9.6                   | 2.5<br>2.5<br>2.5         | —<br>34.6<br>69.3  | —<br>36<br>72           | 63.1<br>66.0<br>92.1    | 70<br>70<br>100   |
|                     |                        |                  |     |              |      |              |      |              |      |              |     |                        |             |                         | 10   | 11.0             | —                     | 2.5<br>2.5<br>2.5         | —<br>34.6<br>69.3  | —<br>36<br>72           | 58.4<br>60.1<br>86.2    | 70<br>70<br>90    |
|                     |                        |                  |     |              |      |              |      |              |      |              |     |                        |             |                         |      |                  | 9.6                   | 2.5<br>2.5<br>2.5         | —<br>34.6<br>69.3  | —<br>36<br>72           | 68.0<br>72.1<br>98.2    | 80<br>80<br>100   |
|                     |                        |                  |     |              |      |              |      |              |      |              |     |                        |             |                         | 15   | 17.0             | —                     | 2.5<br>2.5<br>2.5         | —<br>34.6<br>69.3  | —<br>36<br>72           | 65.6<br>67.6<br>93.7    | 80<br>80<br>110   |
|                     |                        |                  |     |              |      |              |      |              |      |              |     |                        |             |                         |      |                  | 9.6                   | 2.5<br>2.5<br>2.5         | —<br>34.6<br>69.3  | —<br>36<br>72           | 75.2<br>79.6<br>105.7   | 90<br>90<br>110   |

**Table 7B — Electrical Data — 50A2,A3,A4,A5 Units With Convenience Outlet (cont)**

| UNIT<br>SIZE<br>50A | VOLTAGE<br>3 PH, 60 Hz | VOLTAGE<br>RANGE |     | COMPRESSOR   |     |              |     |              |     |              |     | CONDENSER<br>FAN MOTOR |             | EVAPORATOR<br>FAN MOTOR |      | POWER<br>EXHAUST | CONVENIENCE<br>OUTLET | OPTIONAL<br>ELECTRIC HEAT |               | POWER SUPPLY            |                   |
|---------------------|------------------------|------------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|------------------------|-------------|-------------------------|------|------------------|-----------------------|---------------------------|---------------|-------------------------|-------------------|
|                     |                        |                  |     | Cir A, No. 1 |     | Cir A, No. 2 |     | Cir B, No. 1 |     | Cir B, No. 2 |     |                        |             |                         |      |                  |                       |                           |               |                         |                   |
|                     |                        | Min              | Max | RLA          | LRA | RLA          | LRA | RLA          | LRA | RLA          | LRA | Qty                    | FLA         | Hp                      | FLA  | FLA<br>(total)   | FLA                   | kW                        | MCA           | MOCP*                   |                   |
| 027                 | 208                    | 187              | 229 | 29.5         | 195 | 29.5         | 195 | 29.5         | 195 | —            | —   | 2                      | 6.5<br>(ea) | 10                      | 30.8 | —                | 7.0<br>7.0<br>7.0     | —<br>75.1<br>150.1        | —<br>27<br>54 | 147.0<br>147.0<br>197.4 | 175<br>175<br>225 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 23.6             | 7.0<br>7.0<br>7.0     | —<br>75.1<br>150.1        | —<br>27<br>54 | 170.6<br>170.6<br>226.9 | 200<br>200<br>250 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             | 15                      | 46.2 | —                | 7.0<br>7.0<br>7.0     | —<br>75.1<br>150.1        | —<br>27<br>54 | 166.3<br>166.3<br>216.6 | 200<br>200<br>250 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 23.6             | 7.0<br>7.0<br>7.0     | —<br>75.1<br>150.1        | —<br>27<br>54 | 189.9<br>189.9<br>246.1 | 225<br>225<br>250 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             | 20                      | 59.4 | —                | 7.0<br>7.0<br>7.0     | —<br>75.1<br>150.1        | —<br>27<br>54 | 182.8<br>182.8<br>233.1 | 225<br>225<br>250 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 23.6             | 7.0<br>7.0<br>7.0     | —<br>75.1<br>150.1        | —<br>27<br>54 | 206.4<br>206.4<br>262.6 | 250<br>250<br>300 |
|                     | 230                    | 207              | 253 | 29.5         | 195 | 29.5         | 195 | 29.5         | 195 | —            | —   | 2                      | 6.6<br>(ea) | 10                      | 28.0 | —                | 7.0<br>7.0<br>7.0     | —<br>86.6<br>173.2        | —<br>36<br>72 | 144.1<br>152.0<br>217.0 | 150<br>175<br>225 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 23.6             | 7.0<br>7.0<br>7.0     | —<br>86.6<br>173.2        | —<br>36<br>72 | 167.7<br>181.5<br>246.5 | 175<br>200<br>250 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             | 15                      | 42.0 | —                | 7.0<br>7.0<br>7.0     | —<br>86.6<br>173.2        | —<br>36<br>72 | 161.2<br>169.5<br>234.5 | 200<br>200<br>250 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 23.6             | 7.0<br>7.0<br>7.0     | —<br>86.6<br>173.2        | —<br>36<br>72 | 184.8<br>199.0<br>264.0 | 225<br>225<br>300 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             | 20                      | 54.0 | —                | 7.0<br>7.0<br>7.0     | —<br>86.6<br>173.2        | —<br>36<br>72 | 176.2<br>184.5<br>249.5 | 225<br>225<br>300 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 23.6             | 7.0<br>7.0<br>7.0     | —<br>86.6<br>173.2        | —<br>36<br>72 | 199.8<br>214.0<br>279.0 | 250<br>250<br>300 |
|                     | 460                    | 414              | 508 | 14.7         | 95  | 14.7         | 95  | 14.7         | 95  | —            | —   | 2                      | 3.3<br>(ea) | 10                      | 14.0 | —                | 3.5<br>3.5<br>3.5     | —<br>43.3<br>86.6         | —<br>36<br>72 | 71.9<br>76.0<br>108.5   | 80<br>80<br>110   |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 12.6             | 3.5<br>3.5<br>3.5     | —<br>43.3<br>86.6         | —<br>36<br>72 | 84.5<br>91.8<br>124.2   | 90<br>100<br>125  |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             | 15                      | 21.0 | —                | 3.5<br>3.5<br>3.5     | —<br>43.3<br>86.6         | —<br>36<br>72 | 80.5<br>84.8<br>117.2   | 100<br>100<br>125 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 12.6             | 3.5<br>3.5<br>3.5     | —<br>43.3<br>86.6         | —<br>36<br>72 | 93.1<br>100.5<br>133.0  | 110<br>110<br>150 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             | 20                      | 27.0 | —                | 3.5<br>3.5<br>3.5     | —<br>43.3<br>86.6         | —<br>36<br>72 | 88.0<br>92.3<br>124.7   | 110<br>110<br>150 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 12.6             | 3.5<br>3.5<br>3.5     | —<br>43.3<br>86.6         | —<br>36<br>72 | 100.6<br>108.0<br>140.5 | 125<br>125<br>150 |
|                     | 575                    | 518              | 632 | 12.2         | 80  | 12.2         | 80  | 12.2         | 80  | —            | —   | 2                      | 2.6<br>(ea) | 10                      | 11.0 | —                | 2.5<br>2.5<br>2.5     | —<br>34.6<br>69.3         | —<br>36<br>72 | 58.4<br>60.1<br>86.2    | 70<br>70<br>90    |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 9.6              | 2.5<br>2.5<br>2.5     | —<br>34.6<br>69.3         | —<br>36<br>72 | 68.0<br>72.1<br>98.2    | 80<br>80<br>100   |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             | 15                      | 17.0 | —                | 2.5<br>2.5<br>2.5     | —<br>34.6<br>69.3         | —<br>36<br>72 | 65.6<br>67.6<br>93.7    | 80<br>80<br>110   |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 9.6              | 2.5<br>2.5<br>2.5     | —<br>34.6<br>69.3         | —<br>36<br>72 | 75.2<br>79.6<br>105.7   | 90<br>90<br>110   |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             | 20                      | 22.0 | —                | 2.5<br>2.5<br>2.5     | —<br>34.6<br>69.3         | —<br>36<br>72 | 71.8<br>73.9<br>99.9    | 90<br>90<br>110   |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 9.6              | 2.5<br>2.5<br>2.5     | —<br>34.6<br>69.3         | —<br>36<br>72 | 81.4<br>85.9<br>111.9   | 100<br>100<br>125 |

See Legend and Notes on page 20.

**Table 7B — Electrical Data — 50A2,A3,A4,A5 Units With Convenience Outlet (cont)**

| UNIT<br>SIZE<br>50A | VOLTAGE<br>3 PH, 60 Hz | VOLTAGE<br>RANGE |      | COMPRESSOR        |                   |                    |                         |                         |                   |              |      | CONDENSER<br>FAN MOTOR |             | EVAPORATOR<br>FAN MOTOR |      | POWER<br>EXHAUST  | CONVENIENCE<br>OUTLET |                    | OPTIONAL<br>ELECTRIC HEAT |                         | POWER SUPPLY            |                   |
|---------------------|------------------------|------------------|------|-------------------|-------------------|--------------------|-------------------------|-------------------------|-------------------|--------------|------|------------------------|-------------|-------------------------|------|-------------------|-----------------------|--------------------|---------------------------|-------------------------|-------------------------|-------------------|
|                     |                        |                  |      | Cir A, No. 1      |                   | Cir A, No. 2       |                         | Cir B, No. 1            |                   | Cir B, No. 2 |      |                        |             |                         |      |                   |                       |                    |                           |                         |                         |                   |
|                     |                        | Min              | Max  | RLA               | LRA               | RLA                | LRA                     | RLA                     | LRA               | RLA          | LRA  | Qty                    | FLA         | Hp                      | FLA  | FLA<br>(total)    | FLA                   | FLA                | kW                        | MCA                     | MOCP*                   |                   |
| 030                 | 208                    | 187              | 229  | 23.2              | 164               | 23.2               | 164                     | 23.2                    | 164               | 23.2         | 164  | 2                      | 6.5<br>(ea) | 10                      | 30.8 | —                 | 7.0<br>7.0<br>7.0     | —<br>75.1<br>150.1 | —<br>27<br>54             | 151.3<br>151.3<br>197.4 | 175<br>175<br>225       |                   |
|                     |                        |                  |      |                   |                   |                    |                         |                         |                   |              |      |                        |             |                         |      | 23.6              | 7.0<br>7.0<br>7.0     | —<br>75.1<br>150.1 | —<br>27<br>54             | 174.9<br>174.9<br>226.9 | 200<br>200<br>250       |                   |
|                     |                        |                  |      |                   |                   |                    |                         |                         |                   |              |      |                        |             |                         |      | —                 | 7.0<br>7.0<br>7.0     | —<br>75.1<br>150.1 | —<br>27<br>54             | 170.6<br>170.6<br>216.6 | 200<br>200<br>250       |                   |
|                     |                        |                  |      |                   |                   |                    |                         |                         |                   |              |      |                        |             | 15                      | 46.2 | —                 | 7.0<br>7.0<br>7.0     | —<br>75.1<br>150.1 | —<br>27<br>54             | 194.2<br>194.2<br>246.1 | 225<br>225<br>250       |                   |
|                     |                        |                  |      |                   |                   |                    |                         |                         |                   |              |      |                        |             |                         |      | 23.6              | 7.0<br>7.0<br>7.0     | —<br>75.1<br>150.1 | —<br>27<br>54             | 194.2<br>194.2<br>246.1 | 225<br>225<br>250       |                   |
|                     |                        |                  |      |                   |                   |                    |                         |                         |                   |              |      |                        |             |                         |      | —                 | 7.0<br>7.0<br>7.0     | —<br>75.1<br>150.1 | —<br>27<br>54             | 187.1<br>187.1<br>233.1 | 225<br>225<br>250       |                   |
|                     |                        | 20               | 59.4 | —                 | 7.0<br>7.0<br>7.0 | —<br>75.1<br>150.1 | —<br>27<br>54           | 210.7<br>210.7<br>262.6 | 250<br>250<br>300 |              |      |                        |             |                         |      |                   |                       |                    |                           |                         |                         |                   |
|                     |                        |                  |      | 23.6              | 7.0<br>7.0<br>7.0 | —<br>75.1<br>150.1 | —<br>27<br>54           | 210.7<br>210.7<br>262.6 | 250<br>250<br>300 |              |      |                        |             |                         |      |                   |                       |                    |                           |                         |                         |                   |
|                     |                        |                  |      | —                 | 7.0<br>7.0<br>7.0 | —<br>75.1<br>150.1 | —<br>27<br>54           | 210.7<br>210.7<br>262.6 | 250<br>250<br>300 |              |      |                        |             |                         |      |                   |                       |                    |                           |                         |                         |                   |
|                     |                        | 230              | 207  | 253               | 23.2              | 164                | 23.2                    | 164                     | 23.2              | 164          | 23.2 | 164                    | 2           | 6.6<br>(ea)             | 10   | 28.0              | —                     | 7.0<br>7.0<br>7.0  | —<br>86.6<br>173.2        | —<br>36<br>72           | 148.0<br>152.0<br>217.0 | 175<br>175<br>225 |
|                     |                        |                  |      |                   |                   |                    |                         |                         |                   |              |      |                        |             |                         |      |                   | 23.6                  | 7.0<br>7.0<br>7.0  | —<br>86.6<br>173.2        | —<br>36<br>72           | 171.6<br>181.5<br>246.5 | 175<br>200<br>250 |
|                     |                        |                  |      |                   |                   |                    |                         |                         |                   |              |      |                        |             |                         |      |                   | —                     | 7.0<br>7.0<br>7.0  | —<br>86.6<br>173.2        | —<br>36<br>72           | 165.5<br>169.5<br>234.5 | 200<br>200<br>250 |
|                     | 15                     |                  |      |                   |                   |                    |                         |                         |                   |              |      |                        |             |                         | 42.0 | —                 | 7.0<br>7.0<br>7.0     | —<br>86.6<br>173.2 | —<br>36<br>72             | 189.1<br>199.0<br>264.0 | 225<br>225<br>300       |                   |
|                     |                        |                  |      |                   |                   |                    |                         |                         |                   |              |      |                        |             |                         |      | 23.6              | 7.0<br>7.0<br>7.0     | —<br>86.6<br>173.2 | —<br>36<br>72             | 189.1<br>199.0<br>264.0 | 225<br>225<br>300       |                   |
|                     |                        |                  |      |                   |                   |                    |                         |                         |                   |              |      |                        |             |                         |      | —                 | 7.0<br>7.0<br>7.0     | —<br>86.6<br>173.2 | —<br>36<br>72             | 180.5<br>184.5<br>249.5 | 225<br>225<br>300       |                   |
|                     | 20                     |                  | 54.0 | —                 | 7.0<br>7.0<br>7.0 | —<br>86.6<br>173.2 | —<br>36<br>72           | 204.1<br>214.0<br>279.0 | 250<br>250<br>300 |              |      |                        |             |                         |      |                   |                       |                    |                           |                         |                         |                   |
|                     |                        |                  |      | 23.6              | 7.0<br>7.0<br>7.0 | —<br>86.6<br>173.2 | —<br>36<br>72           | 204.1<br>214.0<br>279.0 | 250<br>250<br>300 |              |      |                        |             |                         |      |                   |                       |                    |                           |                         |                         |                   |
|                     |                        |                  |      | —                 | 7.0<br>7.0<br>7.0 | —<br>86.6<br>173.2 | —<br>36<br>72           | 204.1<br>214.0<br>279.0 | 250<br>250<br>300 |              |      |                        |             |                         |      |                   |                       |                    |                           |                         |                         |                   |
|                     | 460                    |                  | 414  | 508               | 11.2              | 75                 | 11.2                    | 75                      | 11.2              | 75           | 11.2 | 75                     | 2           | 3.3<br>(ea)             | 10   | 14.0              | —                     | 3.5<br>3.5<br>3.5  | —<br>43.3<br>86.6         | —<br>36<br>72           | 72.4<br>76.0<br>108.5   | 80<br>80<br>110   |
|                     |                        |                  |      |                   |                   |                    |                         |                         |                   |              |      |                        |             |                         |      |                   | 12.6                  | 3.5<br>3.5<br>3.5  | —<br>43.3<br>86.6         | —<br>36<br>72           | 85.0<br>91.8<br>124.2   | 90<br>100<br>125  |
|                     |                        |                  |      |                   |                   |                    |                         |                         |                   |              |      |                        |             |                         |      |                   | —                     | 3.5<br>3.5<br>3.5  | —<br>43.3<br>86.6         | —<br>36<br>72           | 81.2<br>84.8<br>117.2   | 100<br>100<br>125 |
|                     |                        | 15               |      |                   |                   |                    |                         |                         |                   |              |      |                        |             |                         | 21.0 | —                 | 3.5<br>3.5<br>3.5     | —<br>43.3<br>86.6  | —<br>36<br>72             | 93.8<br>100.5<br>133.0  | 110<br>110<br>150       |                   |
|                     |                        |                  |      |                   |                   |                    |                         |                         |                   |              |      |                        |             |                         |      | 12.6              | 3.5<br>3.5<br>3.5     | —<br>43.3<br>86.6  | —<br>36<br>72             | 93.8<br>100.5<br>133.0  | 110<br>110<br>150       |                   |
|                     |                        |                  |      |                   |                   |                    |                         |                         |                   |              |      |                        |             |                         |      | —                 | 3.5<br>3.5<br>3.5     | —<br>43.3<br>86.6  | —<br>36<br>72             | 88.7<br>92.3<br>124.7   | 110<br>110<br>150       |                   |
|                     |                        | 20               | 27.0 | —                 | 3.5<br>3.5<br>3.5 | —<br>43.3<br>86.6  | —<br>36<br>72           | 101.3<br>108.0<br>140.5 | 125<br>125<br>150 |              |      |                        |             |                         |      |                   |                       |                    |                           |                         |                         |                   |
|                     |                        |                  |      | 12.6              | 3.5<br>3.5<br>3.5 | —<br>43.3<br>86.6  | —<br>36<br>72           | 101.3<br>108.0<br>140.5 | 125<br>125<br>150 |              |      |                        |             |                         |      |                   |                       |                    |                           |                         |                         |                   |
| —                   |                        |                  |      | 3.5<br>3.5<br>3.5 | —<br>43.3<br>86.6 | —<br>36<br>72      | 101.3<br>108.0<br>140.5 | 125<br>125<br>150       |                   |              |      |                        |             |                         |      |                   |                       |                    |                           |                         |                         |                   |
| 575                 |                        | 518              | 632  | 7.9               | 54                | 7.9                | 54                      | 7.9                     | 54                | 7.9          | 54   | 2                      | 2.6<br>(ea) | 10                      | 11.0 | —                 | 2.5<br>2.5<br>2.5     | —<br>34.6<br>69.3  | —<br>36<br>72             | 53.1<br>60.1<br>86.2    | 60<br>70<br>90          |                   |
|                     |                        |                  |      |                   |                   |                    |                         |                         |                   |              |      |                        |             |                         |      | 9.6               | 2.5<br>2.5<br>2.5     | —<br>34.6<br>69.3  | —<br>36<br>72             | 62.7<br>72.1<br>98.2    | 70<br>80<br>100         |                   |
|                     |                        |                  |      |                   |                   |                    |                         |                         |                   |              |      |                        |             |                         |      | —                 | 2.5<br>2.5<br>2.5     | —<br>34.6<br>69.3  | —<br>36<br>72             | 60.6<br>67.6<br>93.7    | 70<br>70<br>110         |                   |
|                     | 15                     |                  |      |                   |                   |                    |                         |                         |                   |              |      |                        |             | 17.0                    | —    | 2.5<br>2.5<br>2.5 | —<br>34.6<br>69.3     | —<br>36<br>72      | 70.2<br>79.6<br>105.7     | 80<br>80<br>110         |                         |                   |
|                     |                        |                  |      |                   |                   |                    |                         |                         |                   |              |      |                        |             |                         | 9.6  | 2.5<br>2.5<br>2.5 | —<br>34.6<br>69.3     | —<br>36<br>72      | 70.2<br>79.6<br>105.7     | 80<br>80<br>110         |                         |                   |
|                     |                        |                  |      |                   |                   |                    |                         |                         |                   |              |      |                        |             |                         | —    | 2.5<br>2.5<br>2.5 | —<br>34.6<br>69.3     | —<br>36<br>72      | 66.8<br>73.9<br>99.9      | 80<br>80<br>110         |                         |                   |
|                     | 20                     | 22.0             | —    | 2.5<br>2.5<br>2.5 | —<br>34.6<br>69.3 | —<br>36<br>72      | 76.4<br>85.9<br>111.9   | 90<br>90<br>125         |                   |              |      |                        |             |                         |      |                   |                       |                    |                           |                         |                         |                   |
|                     |                        |                  | 9.6  | 2.5<br>2.5<br>2.5 | —<br>34.6<br>69.3 | —<br>36<br>72      | 76.4<br>85.9<br>111.9   | 90<br>90<br>125         |                   |              |      |                        |             |                         |      |                   |                       |                    |                           |                         |                         |                   |
|                     |                        |                  | —    | 2.5<br>2.5<br>2.5 | —<br>34.6<br>69.3 | —<br>36<br>72      | 76.4<br>85.9<br>111.9   | 90<br>90<br>125         |                   |              |      |                        |             |                         |      |                   |                       |                    |                           |                         |                         |                   |

See Legend and Notes on page 20.

**Table 7B — Electrical Data — 50A2,A3,A4,A5 Units With Convenience Outlet (cont)**

| UNIT<br>SIZE<br>50A | VOLTAGE<br>3 PH, 60 Hz | VOLTAGE<br>RANGE |     | COMPRESSOR   |      |              |      |              |      |              |      | CONDENSER<br>FAN MOTOR |             | EVAPORATOR<br>FAN MOTOR |      | POWER<br>EXHAUST | CONVENIENCE<br>OUTLET | OPTIONAL<br>ELECTRIC HEAT |                    | POWER SUPPLY            |                         |                   |      |    |   |             |    |      |     |                   |                   |          |                       |                   |
|---------------------|------------------------|------------------|-----|--------------|------|--------------|------|--------------|------|--------------|------|------------------------|-------------|-------------------------|------|------------------|-----------------------|---------------------------|--------------------|-------------------------|-------------------------|-------------------|------|----|---|-------------|----|------|-----|-------------------|-------------------|----------|-----------------------|-------------------|
|                     |                        |                  |     | Cir A, No. 1 |      | Cir A, No. 2 |      | Cir B, No. 1 |      | Cir B, No. 2 |      |                        |             |                         |      |                  |                       |                           |                    |                         |                         |                   |      |    |   |             |    |      |     |                   |                   |          |                       |                   |
|                     |                        | Min              | Max | RLA          | LRA  | RLA          | LRA  | RLA          | LRA  | RLA          | LRA  | Qty                    | FLA         | Hp                      | FLA  | FLA<br>(total)   | FLA                   | FLA                       | kW                 | MCA                     | MOCP*                   |                   |      |    |   |             |    |      |     |                   |                   |          |                       |                   |
| 035                 | 208                    | 187              | 229 | 22.4         | 149  | 22.4         | 149  | 30.1         | 225  | 30.1         | 225  | 2                      | 6.5<br>(ea) | 15                      | 46.2 | —                | 7.0<br>7.0<br>7.0     | —<br>75.1<br>150.1        | —<br>27<br>54      | 182.8<br>182.8<br>216.6 | 225<br>225<br>250       |                   |      |    |   |             |    |      |     |                   |                   |          |                       |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      | 23.6             | 7.0<br>7.0<br>7.0     | —<br>75.1<br>150.1        | 27<br>54           | 206.4<br>206.4<br>246.1 | 250<br>250<br>250       |                   |      |    |   |             |    |      |     |                   |                   |          |                       |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             | 20                      | 59.4 | —                | 7.0<br>7.0<br>7.0     | —<br>75.1<br>150.1        | —<br>27<br>54      | 199.3<br>199.3<br>233.1 | 250<br>250<br>250       |                   |      |    |   |             |    |      |     |                   |                   |          |                       |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      | 23.6             | 7.0<br>7.0<br>7.0     | —<br>75.1<br>150.1        | 27<br>54           | 222.9<br>222.9<br>262.6 | 250<br>250<br>300       |                   |      |    |   |             |    |      |     |                   |                   |          |                       |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             | 25                      | 74.8 | —                | 7.0<br>7.0<br>7.0     | —<br>75.1<br>150.1        | —<br>27<br>54      | 218.5<br>218.5<br>252.4 | 250<br>250<br>300       |                   |      |    |   |             |    |      |     |                   |                   |          |                       |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      | 23.6             | 7.0<br>7.0<br>7.0     | —<br>75.1<br>150.1        | 27<br>54           | 242.1<br>242.1<br>281.9 | 300<br>300<br>300       |                   |      |    |   |             |    |      |     |                   |                   |          |                       |                   |
|                     |                        | 230              | 207 | 253          | 22.4 | 149          | 22.4 | 149          | 30.1 | 225          | 30.1 | 225                    | 2           | 6.6<br>(ea)             | 15   | 42.0             | —                     | 7.0<br>7.0<br>7.0         | —<br>86.6<br>173.2 | 36<br>72                | 177.7<br>177.7<br>234.5 | 200<br>200<br>250 |      |    |   |             |    |      |     |                   |                   |          |                       |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      |                  | 23.6                  | 7.0<br>7.0<br>7.0         | —<br>86.6<br>173.2 | 36<br>72                | 201.3<br>201.3<br>264.0 | 225<br>225<br>300 |      |    |   |             |    |      |     |                   |                   |          |                       |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         | 20   | 54.0             | —                     | 7.0<br>7.0<br>7.0         | —<br>86.6<br>173.2 | 36<br>72                | 192.7<br>192.7<br>249.5 | 225<br>225<br>300 |      |    |   |             |    |      |     |                   |                   |          |                       |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      |                  | 23.6                  | 7.0<br>7.0<br>7.0         | —<br>86.6<br>173.2 | 36<br>72                | 216.3<br>216.3<br>279.0 | 250<br>250<br>300 |      |    |   |             |    |      |     |                   |                   |          |                       |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         | 25   | 68.0             | —                     | 7.0<br>7.0<br>7.0         | —<br>86.6<br>173.2 | 36<br>72                | 210.2<br>210.2<br>267.0 | 250<br>250<br>300 |      |    |   |             |    |      |     |                   |                   |          |                       |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      |                  | 23.6                  | 7.0<br>7.0<br>7.0         | —<br>86.6<br>173.2 | 36<br>72                | 233.8<br>233.8<br>296.5 | 300<br>300<br>350 |      |    |   |             |    |      |     |                   |                   |          |                       |                   |
|                     | 460                    | 414              | 508 | 10.6         | 75   | 10.6         | 75   | 16.7         | 114  | 16.7         | 114  | 2                      | 3.3<br>(ea) | 15                      | 21.0 | —                | 3.5<br>3.5<br>3.5     | —<br>43.3<br>86.6         | 36<br>72           | 91.0<br>91.0<br>117.2   | 110<br>110<br>125       |                   |      |    |   |             |    |      |     |                   |                   |          |                       |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      | 12.6             | 3.5<br>3.5<br>3.5     | —<br>43.3<br>86.6         | 36<br>72           | 103.6<br>103.6<br>133.0 | 110<br>110<br>150       |                   |      |    |   |             |    |      |     |                   |                   |          |                       |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             | 20                      | 27.0 | —                | 3.5<br>3.5<br>3.5     | —<br>43.3<br>86.6         | 36<br>72           | 98.5<br>98.5<br>124.7   | 125<br>125<br>150       |                   |      |    |   |             |    |      |     |                   |                   |          |                       |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      | 12.6             | 3.5<br>3.5<br>3.5     | —<br>43.3<br>86.6         | 36<br>72           | 111.1<br>111.1<br>140.5 | 125<br>125<br>150       |                   |      |    |   |             |    |      |     |                   |                   |          |                       |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             | 25                      | 34.0 | —                | 3.5<br>3.5<br>3.5     | —<br>43.3<br>86.6         | 36<br>72           | 107.2<br>107.2<br>133.5 | 125<br>125<br>150       |                   |      |    |   |             |    |      |     |                   |                   |          |                       |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      | 12.6             | 3.5<br>3.5<br>3.5     | —<br>43.3<br>86.6         | 36<br>72           | 119.8<br>119.8<br>149.2 | 150<br>150<br>175       |                   |      |    |   |             |    |      |     |                   |                   |          |                       |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             | 575                     | 518  | 632              | 7.7                   | 54                        | 7.7                | 54                      | 12.2                    | 80                | 12.2 | 80 | 2 | 2.6<br>(ea) | 15 | 17.0 | —   | 2.5<br>2.5<br>2.5 | —<br>34.6<br>69.3 | 36<br>72 | 68.8<br>68.8<br>93.7  | 80<br>80<br>110   |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      |                  |                       |                           |                    |                         |                         |                   |      |    |   |             |    |      | 9.6 | 2.5<br>2.5<br>2.5 | —<br>34.6<br>69.3 | 36<br>72 | 78.4<br>79.6<br>105.7 | 90<br>90<br>110   |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      |                  |                       |                           |                    |                         |                         |                   |      |    |   |             | 20 | 22.0 | —   | 2.5<br>2.5<br>2.5 | —<br>34.6<br>69.3 | 36<br>72 | 75.0<br>75.0<br>99.9  | 90<br>90<br>110   |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      |                  |                       |                           |                    |                         |                         |                   |      |    |   |             |    |      | 9.6 | 2.5<br>2.5<br>2.5 | —<br>34.6<br>69.3 | 36<br>72 | 84.6<br>85.9<br>111.9 | 100<br>100<br>125 |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      |                  |                       |                           |                    |                         |                         |                   |      |    |   |             | 25 | 27.0 | —   | 2.5<br>2.5<br>2.5 | —<br>34.6<br>69.3 | 36<br>72 | 81.3<br>81.3<br>106.2 | 100<br>100<br>125 |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      |                  |                       |                           |                    |                         |                         |                   |      |    |   |             |    |      | 9.6 | 2.5<br>2.5<br>2.5 | —<br>34.6<br>69.3 | 36<br>72 | 90.9<br>92.1<br>118.2 | 110<br>110<br>125 |

See Legend and Notes on page 20.

**Table 7B — Electrical Data — 50A2,A3,A4,A5 Units With Convenience Outlet (cont)**

| UNIT<br>SIZE<br>50A | VOLTAGE<br>3 PH, 60 Hz | VOLTAGE<br>RANGE |     | COMPRESSOR   |     |              |     |              |     |              |      | CONDENSER<br>FAN MOTOR |             | EVAPORATOR<br>FAN MOTOR |      | POWER<br>EXHAUST | CONVENIENCE<br>OUTLET | OPTIONAL<br>ELECTRIC HEAT |               | POWER SUPPLY            |                   |
|---------------------|------------------------|------------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|------|------------------------|-------------|-------------------------|------|------------------|-----------------------|---------------------------|---------------|-------------------------|-------------------|
|                     |                        |                  |     | Cir A, No. 1 |     | Cir A, No. 2 |     | Cir B, No. 1 |     | Cir B, No. 2 |      |                        |             |                         |      |                  |                       |                           |               |                         |                   |
|                     |                        | Min              | Max | RLA          | LRA | RLA          | LRA | RLA          | LRA | RLA          | LRA  | Qty                    | FLA         | Hp                      | FLA  | FLA<br>(total)   | FLA                   | FLA                       | kW            | MCA                     | MOCP*             |
| 040                 | 208                    | 187              | 229 | 30.1         | 225 | 30.1         | 225 | 30.1         | 225 | 30.1         | 30.1 | 4                      | 6.5<br>(ea) | 15                      | 46.2 | —                | 7.0<br>7.0<br>7.0     | —<br>75.1<br>150.1        | —<br>27<br>54 | 211.2<br>211.2<br>216.6 | 250<br>250<br>250 |
|                     |                        |                  |     |              |     |              |     |              |     |              |      |                        |             |                         |      | 23.6             | 7.0<br>7.0<br>7.0     | —<br>75.1<br>150.1        | —<br>27<br>54 | 234.8<br>234.8<br>246.1 | 250<br>250<br>250 |
|                     |                        |                  |     |              |     |              |     |              |     |              |      |                        |             |                         |      | —                | 7.0<br>7.0<br>7.0     | —<br>75.1<br>150.1        | —<br>27<br>54 | 227.7<br>227.7<br>233.1 | 250<br>250<br>250 |
|                     |                        |                  |     |              |     |              |     |              |     |              |      |                        |             | 20                      | 59.4 | —                | 7.0<br>7.0<br>7.0     | —<br>75.1<br>150.1        | —<br>27<br>54 | 251.3<br>251.3<br>262.6 | 300<br>300<br>300 |
|                     |                        |                  |     |              |     |              |     |              |     |              |      |                        |             |                         |      | 23.6             | 7.0<br>7.0<br>7.0     | —<br>75.1<br>150.1        | —<br>27<br>54 | 246.9<br>246.9<br>252.4 | 300<br>300<br>300 |
|                     |                        |                  |     |              |     |              |     |              |     |              |      |                        |             |                         |      | —                | 7.0<br>7.0<br>7.0     | —<br>75.1<br>150.1        | —<br>27<br>54 | 270.5<br>270.5<br>281.9 | 300<br>300<br>300 |
|                     |                        |                  |     |              |     |              |     |              |     |              |      |                        |             | 25                      | 74.8 | —                | 7.0<br>7.0<br>7.0     | —<br>75.1<br>150.1        | —<br>27<br>54 | 206.3<br>206.3<br>206.3 | 225<br>225<br>225 |
|                     |                        |                  |     |              |     |              |     |              |     |              |      |                        |             |                         |      | 23.6             | 7.0<br>7.0<br>7.0     | —<br>75.1<br>150.1        | —<br>27<br>54 | 229.9<br>229.9<br>264.0 | 250<br>250<br>300 |
|                     |                        |                  |     |              |     |              |     |              |     |              |      |                        |             |                         |      | —                | 7.0<br>7.0<br>7.0     | —<br>86.6<br>173.2        | —<br>36<br>72 | 221.3<br>221.3<br>249.5 | 250<br>250<br>300 |
|                     | 230                    | 207              | 253 | 30.1         | 225 | 30.1         | 225 | 30.1         | 225 | 30.1         | 30.1 | 4                      | 6.6<br>(ea) | 15                      | 42.0 | —                | 7.0<br>7.0<br>7.0     | —<br>86.6<br>173.2        | —<br>36<br>72 | 206.3<br>206.3<br>234.5 | 225<br>225<br>250 |
|                     |                        |                  |     |              |     |              |     |              |     |              |      |                        |             |                         |      | 23.6             | 7.0<br>7.0<br>7.0     | —<br>86.6<br>173.2        | —<br>36<br>72 | 229.9<br>229.9<br>264.0 | 250<br>250<br>300 |
|                     |                        |                  |     |              |     |              |     |              |     |              |      |                        |             |                         |      | —                | 7.0<br>7.0<br>7.0     | —<br>86.6<br>173.2        | —<br>36<br>72 | 221.3<br>221.3<br>249.5 | 250<br>250<br>300 |
|                     |                        |                  |     |              |     |              |     |              |     |              |      |                        |             | 20                      | 54.0 | —                | 7.0<br>7.0<br>7.0     | —<br>86.6<br>173.2        | —<br>36<br>72 | 244.9<br>244.9<br>279.0 | 250<br>250<br>300 |
|                     |                        |                  |     |              |     |              |     |              |     |              |      |                        |             |                         |      | 23.6             | 7.0<br>7.0<br>7.0     | —<br>86.6<br>173.2        | —<br>36<br>72 | 238.8<br>238.8<br>267.0 | 300<br>300<br>300 |
|                     |                        |                  |     |              |     |              |     |              |     |              |      |                        |             |                         |      | —                | 7.0<br>7.0<br>7.0     | —<br>86.6<br>173.2        | —<br>36<br>72 | 262.4<br>262.4<br>296.5 | 300<br>300<br>350 |
|                     |                        |                  |     |              |     |              |     |              |     |              |      |                        |             | 25                      | 68.0 | —                | 7.0<br>7.0<br>7.0     | —<br>86.6<br>173.2        | —<br>36<br>72 | 109.8<br>109.8<br>117.2 | 125<br>125<br>125 |
|                     |                        |                  |     |              |     |              |     |              |     |              |      |                        |             |                         |      | 23.6             | 7.0<br>7.0<br>7.0     | —<br>86.6<br>173.2        | —<br>36<br>72 | 122.4<br>122.4<br>133.0 | 125<br>125<br>150 |
|                     |                        |                  |     |              |     |              |     |              |     |              |      |                        |             |                         |      | —                | 3.5<br>3.5<br>3.5     | —<br>43.3<br>86.6         | —<br>36<br>72 | 117.3<br>117.3<br>124.7 | 125<br>125<br>150 |
|                     | 460                    | 414              | 508 | 16.7         | 114 | 16.7         | 114 | 16.7         | 114 | 16.7         | 16.7 | 4                      | 3.3<br>(ea) | 15                      | 21.0 | —                | 3.5<br>3.5<br>3.5     | —<br>43.3<br>86.6         | —<br>36<br>72 | 122.4<br>122.4<br>133.0 | 125<br>125<br>150 |
|                     |                        |                  |     |              |     |              |     |              |     |              |      |                        |             |                         |      | 12.6             | 3.5<br>3.5<br>3.5     | —<br>43.3<br>86.6         | —<br>36<br>72 | 129.9<br>129.9<br>140.5 | 150<br>150<br>150 |
|                     |                        |                  |     |              |     |              |     |              |     |              |      |                        |             |                         |      | —                | 3.5<br>3.5<br>3.5     | —<br>43.3<br>86.6         | —<br>36<br>72 | 126.0<br>126.0<br>133.5 | 150<br>150<br>150 |
|                     |                        |                  |     |              |     |              |     |              |     |              |      |                        |             | 20                      | 27.0 | —                | 3.5<br>3.5<br>3.5     | —<br>43.3<br>86.6         | —<br>36<br>72 | 138.6<br>138.6<br>149.2 | 150<br>150<br>175 |
|                     |                        |                  |     |              |     |              |     |              |     |              |      |                        |             |                         |      | 12.6             | 3.5<br>3.5<br>3.5     | —<br>43.3<br>86.6         | —<br>36<br>72 | 83.0<br>83.0<br>93.7    | 90<br>90<br>110   |
|                     |                        |                  |     |              |     |              |     |              |     |              |      |                        |             |                         |      | —                | 2.5<br>2.5<br>2.5     | —<br>34.6<br>69.3         | —<br>36<br>72 | 92.6<br>92.6<br>105.7   | 100<br>100<br>110 |
|                     |                        |                  |     |              |     |              |     |              |     |              |      |                        |             | 25                      | 34.0 | —                | 3.5<br>3.5<br>3.5     | —<br>43.3<br>86.6         | —<br>36<br>72 | 89.2<br>89.2<br>99.9    | 110<br>110<br>110 |
|                     |                        |                  |     |              |     |              |     |              |     |              |      |                        |             |                         |      | 12.6             | 3.5<br>3.5<br>3.5     | —<br>43.3<br>86.6         | —<br>36<br>72 | 98.8<br>98.8<br>111.9   | 110<br>110<br>125 |
|                     |                        |                  |     |              |     |              |     |              |     |              |      |                        |             |                         |      | —                | 2.5<br>2.5<br>2.5     | —<br>34.6<br>69.3         | —<br>36<br>72 | 95.5<br>95.5<br>106.2   | 110<br>110<br>125 |
|                     | 575                    | 518              | 632 | 12.2         | 80  | 12.2         | 80  | 12.2         | 80  | 12.2         | 12.2 | 4                      | 2.6<br>(ea) | 15                      | 17.0 | —                | 2.5<br>2.5<br>2.5     | —<br>34.6<br>69.3         | —<br>36<br>72 | 89.2<br>89.2<br>99.9    | 110<br>110<br>110 |
|                     |                        |                  |     |              |     |              |     |              |     |              |      |                        |             |                         |      | 9.6              | 2.5<br>2.5<br>2.5     | —<br>34.6<br>69.3         | —<br>36<br>72 | 98.8<br>98.8<br>111.9   | 110<br>110<br>125 |
|                     |                        |                  |     |              |     |              |     |              |     |              |      |                        |             |                         |      | —                | 2.5<br>2.5<br>2.5     | —<br>34.6<br>69.3         | —<br>36<br>72 | 105.1<br>105.1<br>118.2 | 125<br>125<br>125 |
|                     |                        |                  |     |              |     |              |     |              |     |              |      |                        |             | 20                      | 22.0 | —                | 2.5<br>2.5<br>2.5     | —<br>34.6<br>69.3         | —<br>36<br>72 | 89.2<br>89.2<br>99.9    | 110<br>110<br>110 |
|                     |                        |                  |     |              |     |              |     |              |     |              |      |                        |             |                         |      | 9.6              | 2.5<br>2.5<br>2.5     | —<br>34.6<br>69.3         | —<br>36<br>72 | 98.8<br>98.8<br>111.9   | 110<br>110<br>125 |
|                     |                        |                  |     |              |     |              |     |              |     |              |      |                        |             |                         |      | —                | 2.5<br>2.5<br>2.5     | —<br>34.6<br>69.3         | —<br>36<br>72 | 95.5<br>95.5<br>106.2   | 110<br>110<br>125 |
|                     |                        |                  |     |              |     |              |     |              |     |              |      |                        |             | 25                      | 27.0 | —                | 2.5<br>2.5<br>2.5     | —<br>34.6<br>69.3         | —<br>36<br>72 | 105.1<br>105.1<br>118.2 | 125<br>125<br>125 |
|                     |                        |                  |     |              |     |              |     |              |     |              |      |                        |             |                         |      | 9.6              | 2.5<br>2.5<br>2.5     | —<br>34.6<br>69.3         | —<br>36<br>72 | 105.1<br>105.1<br>118.2 | 125<br>125<br>125 |
|                     |                        |                  |     |              |     |              |     |              |     |              |      |                        |             |                         |      | —                | 2.5<br>2.5<br>2.5     | —<br>34.6<br>69.3         | —<br>36<br>72 | 105.1<br>105.1<br>118.2 | 125<br>125<br>125 |

See Legend and Notes on page 20.

**Table 7B — Electrical Data — 50A2,A3,A4,A5 Units With Convenience Outlet (cont)**

| UNIT<br>SIZE<br>50A | VOLTAGE<br>3 PH, 60 Hz | VOLTAGE<br>RANGE |                   | COMPRESSOR   |          |                         |                   |              |      |              |     | CONDENSER<br>FAN MOTOR |             | EVAPORATOR<br>FAN MOTOR |      | POWER<br>EXHAUST  | CONVENIENCE<br>OUTLET | OPTIONAL<br>ELECTRIC HEAT |                         | POWER SUPPLY            |                   |
|---------------------|------------------------|------------------|-------------------|--------------|----------|-------------------------|-------------------|--------------|------|--------------|-----|------------------------|-------------|-------------------------|------|-------------------|-----------------------|---------------------------|-------------------------|-------------------------|-------------------|
|                     |                        |                  |                   | Cir A, No. 1 |          | Cir A, No. 2            |                   | Cir B, No. 1 |      | Cir B, No. 2 |     |                        |             |                         |      |                   |                       |                           |                         |                         |                   |
|                     |                        | Min              | Max               | RLA          | LRA      | RLA                     | LRA               | RLA          | LRA  | RLA          | LRA | Qty                    | FLA         | Hp                      | FLA  | FLA<br>(total)    | FLA                   | FLA                       | kW                      | MCA                     | MOCP*             |
| 050                 | 208                    | 187              | 229               | 33.3         | 239      | 33.3                    | 239               | 33.3         | 239  | 33.3         | 239 | 4                      | 6.5<br>(ea) | 20                      | 59.0 | —                 | 7.0<br>7.0<br>7.0     | —<br>75.1<br>150.1        | —<br>27<br>54           | 240.5<br>240.5<br>240.5 | 250<br>250<br>250 |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         |      | 23.6              | 7.0<br>7.0<br>7.0     | 75.1<br>150.1             | 27<br>54                | 264.1<br>264.1<br>264.1 | 300<br>300<br>300 |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         |      | —                 | 7.0<br>7.0<br>7.0     | 75.1<br>150.1             | 27<br>54                | 259.7<br>259.7<br>259.7 | 300<br>300<br>300 |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         |      | 23.6              | 7.0<br>7.0<br>7.0     | 75.1<br>150.1             | 27<br>54                | 283.3<br>283.3<br>283.3 | 350<br>350<br>350 |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         |      | —                 | 7.0<br>7.0<br>7.0     | 75.1<br>150.1             | 27<br>54                | 276.2<br>276.2<br>276.2 | 350<br>350<br>350 |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         |      | 23.6              | 7.0<br>7.0<br>7.0     | 75.1<br>150.1             | 27<br>54                | 299.8<br>299.8<br>299.8 | 350<br>350<br>350 |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             | 25                      | 75.0 | —                 | 7.0<br>7.0<br>7.0     | 75.1<br>150.1             | 27<br>54                | 259.7<br>259.7<br>259.7 | 300<br>300<br>300 |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         |      | 23.6              | 7.0<br>7.0<br>7.0     | 75.1<br>150.1             | 27<br>54                | 283.3<br>283.3<br>283.3 | 350<br>350<br>350 |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         |      | —                 | 7.0<br>7.0<br>7.0     | 75.1<br>150.1             | 27<br>54                | 276.2<br>276.2<br>276.2 | 350<br>350<br>350 |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         |      | 23.6              | 7.0<br>7.0<br>7.0     | 75.1<br>150.1             | 27<br>54                | 299.8<br>299.8<br>299.8 | 350<br>350<br>350 |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         |      | —                 | 7.0<br>7.0<br>7.0     | 75.1<br>150.1             | 27<br>54                | 276.2<br>276.2<br>276.2 | 350<br>350<br>350 |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         |      | 23.6              | 7.0<br>7.0<br>7.0     | 75.1<br>150.1             | 27<br>54                | 299.8<br>299.8<br>299.8 | 350<br>350<br>350 |
|                     | 230                    | 207              | 253               | 33.3         | 239      | 33.3                    | 239               | 33.3         | 239  | 33.3         | 239 | 4                      | 6.6<br>(ea) | 20                      | 54.0 | —                 | 7.0<br>7.0<br>7.0     | 86.6<br>173.2             | 36<br>72                | 234.1<br>234.1<br>249.5 | 250<br>250<br>300 |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         |      | 23.6              | 7.0<br>7.0<br>7.0     | 86.6<br>173.2             | 36<br>72                | 257.7<br>257.7<br>279.0 | 300<br>300<br>300 |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         |      | —                 | 7.0<br>7.0<br>7.0     | 86.6<br>173.2             | 36<br>72                | 251.6<br>251.6<br>267.0 | 300<br>300<br>300 |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         |      | 23.6              | 7.0<br>7.0<br>7.0     | 86.6<br>173.2             | 36<br>72                | 275.2<br>275.2<br>296.5 | 300<br>300<br>350 |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         |      | —                 | 7.0<br>7.0<br>7.0     | 86.6<br>173.2             | 36<br>72                | 266.6<br>266.6<br>282.0 | 300<br>300<br>350 |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         |      | 23.6              | 7.0<br>7.0<br>7.0     | 86.6<br>173.2             | 36<br>72                | 290.2<br>290.2<br>311.5 | 350<br>350<br>350 |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             | 25                      | 68.0 | —                 | 7.0<br>7.0<br>7.0     | 86.6<br>173.2             | 36<br>72                | 251.6<br>251.6<br>267.0 | 300<br>300<br>300 |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         |      | 23.6              | 7.0<br>7.0<br>7.0     | 86.6<br>173.2             | 36<br>72                | 275.2<br>275.2<br>296.5 | 300<br>300<br>350 |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         |      | —                 | 7.0<br>7.0<br>7.0     | 86.6<br>173.2             | 36<br>72                | 266.6<br>266.6<br>282.0 | 300<br>300<br>350 |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         |      | 23.6              | 7.0<br>7.0<br>7.0     | 86.6<br>173.2             | 36<br>72                | 290.2<br>290.2<br>311.5 | 350<br>350<br>350 |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         |      | —                 | 7.0<br>7.0<br>7.0     | 86.6<br>173.2             | 36<br>72                | 266.6<br>266.6<br>282.0 | 300<br>300<br>350 |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         |      | 23.6              | 7.0<br>7.0<br>7.0     | 86.6<br>173.2             | 36<br>72                | 290.2<br>290.2<br>311.5 | 350<br>350<br>350 |
|                     | 460                    | 414              | 508               | 17.9         | 125      | 17.9                    | 125               | 17.9         | 125  | 17.9         | 125 | 4                      | 3.3<br>(ea) | 20                      | 27.0 | —                 | 3.5<br>3.5<br>3.5     | 43.3<br>86.6              | 36<br>72                | 122.1<br>122.1<br>124.7 | 125<br>125<br>150 |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         |      | 12.6              | 3.5<br>3.5<br>3.5     | 43.3<br>86.6              | 36<br>72                | 134.7<br>134.7<br>140.5 | 150<br>150<br>150 |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         |      | —                 | 3.5<br>3.5<br>3.5     | 43.3<br>86.6              | 36<br>72                | 130.8<br>130.8<br>133.5 | 150<br>150<br>150 |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         |      | 12.6              | 3.5<br>3.5<br>3.5     | 43.3<br>86.6              | 36<br>72                | 143.4<br>143.4<br>149.2 | 175<br>175<br>175 |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         |      | —                 | 3.5<br>3.5<br>3.5     | 43.3<br>86.6              | 36<br>72                | 138.3<br>138.3<br>141.0 | 175<br>175<br>175 |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         |      | 12.6              | 3.5<br>3.5<br>3.5     | 43.3<br>86.6              | 36<br>72                | 150.9<br>150.9<br>156.7 | 175<br>175<br>175 |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             | 25                      | 34.0 | —                 | 3.5<br>3.5<br>3.5     | 43.3<br>86.6              | 36<br>72                | 130.8<br>130.8<br>133.5 | 150<br>150<br>150 |
| 12.6                |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         |      | 3.5<br>3.5<br>3.5 | 43.3<br>86.6          | 36<br>72                  | 143.4<br>143.4<br>149.2 | 175<br>175<br>175       |                   |
| —                   |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         |      | 3.5<br>3.5<br>3.5 | 43.3<br>86.6          | 36<br>72                  | 138.3<br>138.3<br>141.0 | 175<br>175<br>175       |                   |
| 12.6                |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         |      | 3.5<br>3.5<br>3.5 | 43.3<br>86.6          | 36<br>72                  | 150.9<br>150.9<br>156.7 | 175<br>175<br>175       |                   |
| —                   |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         |      | 3.5<br>3.5<br>3.5 | 43.3<br>86.6          | 36<br>72                  | 138.3<br>138.3<br>141.0 | 175<br>175<br>175       |                   |
| 12.6                |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         |      | 3.5<br>3.5<br>3.5 | 43.3<br>86.6          | 36<br>72                  | 150.9<br>150.9<br>156.7 | 175<br>175<br>175       |                   |
| 575                 | 518                    | 632              | 12.8              | 80           | 12.8     | 80                      | 12.8              | 80           | 12.8 | 80           | 4   | 2.6<br>(ea)            | 20          | 22.0                    | —    | 2.5<br>2.5<br>2.5 | 34.6<br>69.3          | 36<br>72                  | 91.6<br>91.6<br>99.9    | 110<br>110<br>110       |                   |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         | 9.6  | 2.5<br>2.5<br>2.5 | 34.6<br>69.3          | 36<br>72                  | 101.2<br>101.2<br>111.9 | 110<br>110<br>125       |                   |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         | —    | 2.5<br>2.5<br>2.5 | 34.6<br>69.3          | 36<br>72                  | 97.9<br>97.9<br>106.2   | 110<br>110<br>125       |                   |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         | 9.6  | 2.5<br>2.5<br>2.5 | 34.6<br>69.3          | 36<br>72                  | 107.5<br>107.5<br>118.2 | 125<br>125<br>125       |                   |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         | —    | 2.5<br>2.5<br>2.5 | 34.6<br>69.3          | 36<br>72                  | 104.1<br>104.1<br>112.4 | 125<br>125<br>125       |                   |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         | 9.6  | 2.5<br>2.5<br>2.5 | 34.6<br>69.3          | 36<br>72                  | 113.7<br>113.7<br>124.4 | 125<br>125<br>150       |                   |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        | 25          | 27.0                    | —    | 2.5<br>2.5<br>2.5 | 34.6<br>69.3          | 36<br>72                  | 97.9<br>97.9<br>106.2   | 110<br>110<br>125       |                   |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         | 9.6  | 2.5<br>2.5<br>2.5 | 34.6<br>69.3          | 36<br>72                  | 107.5<br>107.5<br>118.2 | 125<br>125<br>125       |                   |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         | —    | 2.5<br>2.5<br>2.5 | 34.6<br>69.3          | 36<br>72                  | 104.1<br>104.1<br>112.4 | 125<br>125<br>125       |                   |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         | 9.6  | 2.5<br>2.5<br>2.5 | 34.6<br>69.3          | 36<br>72                  | 113.7<br>113.7<br>124.4 | 125<br>125<br>150       |                   |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         | —    | 2.5<br>2.5<br>2.5 | 34.6<br>69.3          | 36<br>72                  | 104.1<br>104.1<br>112.4 | 125<br>125<br>125       |                   |
|                     |                        |                  |                   |              |          |                         |                   |              |      |              |     |                        |             |                         | 9.6  | 2.5<br>2.5<br>2.5 | 34.6<br>69.3          | 36<br>72                  | 113.7<br>113.7<br>124.4 | 125<br>125<br>150       |                   |
| 30                  | 32.0                   | —                | 2.5<br>2.5<br>2.5 | 34.6<br>69.3 | 36<br>72 | 104.1<br>104.1<br>112.4 | 125<br>125<br>125 |              |      |              |     |                        |             |                         |      |                   |                       |                           |                         |                         |                   |
|                     |                        | 9.6              | 2.5<br>2.5<br>2.5 | 34.6<br>69.3 | 36<br>72 | 113.7<br>113.7<br>124.4 | 125<br>125<br>150 |              |      |              |     |                        |             |                         |      |                   |                       |                           |                         |                         |                   |
|                     |                        | —                | 2.5<br>2.5<br>2.5 | 34.6<br>69.3 | 36<br>72 | 104.1<br>104.1<br>112.4 | 125<br>125<br>125 |              |      |              |     |                        |             |                         |      |                   |                       |                           |                         |                         |                   |
|                     |                        | 9.6              | 2.5<br>2.5<br>2.5 | 34.6<br>69.3 | 36<br>72 | 113.7<br>113.7<br>124.4 | 125<br>125<br>150 |              |      |              |     |                        |             |                         |      |                   |                       |                           |                         |                         |                   |
|                     |                        | —                | 2.5<br>2.5<br>2.5 | 34.6<br>69.3 | 36<br>72 | 104.1<br>104.1<br>112.4 | 125<br>125<br>125 |              |      |              |     |                        |             |                         |      |                   |                       |                           |                         |                         |                   |
|                     |                        | 9.6              | 2.5<br>2.5<br>2.5 | 34.6<br>69.3 | 36<br>72 | 113.7<br>113.7<br>124.4 | 125<br>125<br>150 |              |      |              |     |                        |             |                         |      |                   |                       |                           |                         |                         |                   |

See Legend and Notes on page 20.

**Table 7B — Electrical Data — 50A2,A3,A4,A5 Units With Convenience Outlet (cont)**

| UNIT<br>SIZE<br>50A | VOLTAGE<br>3 PH, 60 Hz | VOLTAGE<br>RANGE |     | COMPRESSOR   |     |              |     |              |     |              |     | CONDENSER<br>FAN MOTOR |             | EVAPORATOR<br>FAN MOTOR |      | POWER<br>EXHAUST | CONVENIENCE<br>OUTLET | OPTIONAL<br>ELECTRIC HEAT |                | POWER SUPPLY            |                   |
|---------------------|------------------------|------------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|------------------------|-------------|-------------------------|------|------------------|-----------------------|---------------------------|----------------|-------------------------|-------------------|
|                     |                        | Min              | Max | Cir A, No. 1 |     | Cir A, No. 2 |     | Cir B, No. 1 |     | Cir B, No. 2 |     | Qty                    | FLA         | Hp                      | FLA  | FLA<br>(total)   | FLA                   | FLA                       | kW             | MCA                     | MOCP*             |
|                     |                        |                  |     | RLA          | LRA | RLA          | LRA | RLA          | LRA | RLA          | LRA |                        |             |                         |      |                  |                       |                           |                |                         |                   |
| 060<br>(MCHX)       | 208                    | 187              | 229 | 51.3         | 300 | 51.3         | 300 | 51.3         | 300 | 51.3         | 300 | 4                      | 5.5<br>(ea) | 25                      | 75.0 | —                | 7.0<br>7.0<br>7.0     | —<br>112.6<br>225.2       | —<br>41<br>81  | 327.7<br>327.7<br>327.7 | 400<br>400<br>400 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 35.4             | 7.0<br>7.0<br>7.0     | —<br>112.6<br>225.2       | —<br>41<br>81  | 363.1<br>363.1<br>371.7 | 400<br>400<br>400 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | —                | 7.0<br>7.0<br>7.0     | —<br>112.6<br>225.2       | —<br>41<br>81  | 344.2<br>344.2<br>344.2 | 400<br>400<br>400 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 35.4             | 7.0<br>7.0<br>7.0     | —<br>112.6<br>225.2       | —<br>41<br>81  | 379.6<br>379.6<br>388.2 | 450<br>450<br>450 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | —                | 7.0<br>7.0<br>7.0     | —<br>112.6<br>225.2       | —<br>41<br>81  | 376.7<br>376.7<br>376.7 | 450<br>450<br>450 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 35.4             | 7.0<br>7.0<br>7.0     | —<br>112.6<br>225.2       | —<br>41<br>81  | 412.1<br>412.1<br>420.7 | 500<br>500<br>500 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             | 30                      | 88.0 | —                | 7.0<br>7.0<br>7.0     | —<br>112.6<br>225.2       | —<br>41<br>81  | 379.6<br>379.6<br>388.2 | 450<br>450<br>450 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 35.4             | 7.0<br>7.0<br>7.0     | —<br>112.6<br>225.2       | —<br>41<br>81  | 412.1<br>412.1<br>420.7 | 500<br>500<br>500 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | —                | 7.0<br>7.0<br>7.0     | —<br>112.6<br>225.2       | —<br>41<br>81  | 376.7<br>376.7<br>376.7 | 450<br>450<br>450 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 35.4             | 7.0<br>7.0<br>7.0     | —<br>112.6<br>225.2       | —<br>41<br>81  | 412.1<br>412.1<br>420.7 | 500<br>500<br>500 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | —                | 7.0<br>7.0<br>7.0     | —<br>112.6<br>225.2       | —<br>41<br>81  | 376.7<br>376.7<br>376.7 | 450<br>450<br>450 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 35.4             | 7.0<br>7.0<br>7.0     | —<br>112.6<br>225.2       | —<br>41<br>81  | 412.1<br>412.1<br>420.7 | 500<br>500<br>500 |
|                     | 230                    | 207              | 253 | 51.3         | 300 | 51.3         | 300 | 51.3         | 300 | 51.3         | 300 | 4                      | 5.8<br>(ea) | 25                      | 68.0 | —                | 7.0<br>7.0<br>7.0     | —<br>129.9<br>259.8       | —<br>54<br>108 | 320.4<br>320.4<br>353.6 | 350<br>350<br>400 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 35.4             | 7.0<br>7.0<br>7.0     | —<br>129.9<br>259.8       | —<br>54<br>108 | 355.8<br>355.8<br>397.8 | 400<br>400<br>450 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | —                | 7.0<br>7.0<br>7.0     | —<br>129.9<br>259.8       | —<br>54<br>108 | 335.4<br>335.4<br>368.6 | 400<br>400<br>400 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 35.4             | 7.0<br>7.0<br>7.0     | —<br>129.9<br>259.8       | —<br>54<br>108 | 370.8<br>370.8<br>412.8 | 450<br>450<br>450 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | —                | 7.0<br>7.0<br>7.0     | —<br>129.9<br>259.8       | —<br>54<br>108 | 365.4<br>365.4<br>398.6 | 450<br>450<br>500 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 35.4             | 7.0<br>7.0<br>7.0     | —<br>129.9<br>259.8       | —<br>54<br>108 | 400.8<br>400.8<br>442.8 | 500<br>500<br>500 |
|                     | 460                    | 414              | 508 | 22.4         | 150 | 22.4         | 150 | 22.4         | 150 | 22.4         | 150 | 4                      | 2.9<br>(ea) | 25                      | 34.0 | —                | 3.5<br>3.5<br>3.5     | —<br>65.0<br>129.9        | —<br>54<br>108 | 147.2<br>147.2<br>176.8 | 175<br>175<br>200 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 18.9             | 3.5<br>3.5<br>3.5     | —<br>65.0<br>129.9        | —<br>54<br>108 | 166.1<br>166.1<br>200.4 | 200<br>200<br>225 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | —                | 3.5<br>3.5<br>3.5     | —<br>65.0<br>129.9        | —<br>54<br>108 | 154.7<br>154.7<br>184.3 | 175<br>175<br>200 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 18.9             | 3.5<br>3.5<br>3.5     | —<br>65.0<br>129.9        | —<br>54<br>108 | 173.6<br>173.6<br>207.9 | 200<br>200<br>225 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | —                | 3.5<br>3.5<br>3.5     | —<br>65.0<br>129.9        | —<br>54<br>108 | 169.7<br>169.7<br>199.3 | 200<br>200<br>250 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 18.9             | 3.5<br>3.5<br>3.5     | —<br>65.0<br>129.9        | —<br>54<br>108 | 188.6<br>188.6<br>222.9 | 225<br>225<br>250 |
|                     | 575                    | 518              | 632 | 19.9         | 109 | 19.9         | 190 | 19.9         | 109 | 19.9         | 109 | 4                      | 2.3<br>(ea) | 25                      | 27.0 | —                | 2.5<br>2.5<br>2.5     | —<br>65.0<br>129.9        | —<br>54<br>108 | 125.1<br>125.1<br>140.8 | 150<br>150<br>150 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 14.4             | 2.5<br>2.5<br>2.5     | —<br>65.0<br>129.9        | —<br>54<br>108 | 139.5<br>139.5<br>158.8 | 150<br>150<br>175 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | —                | 2.5<br>2.5<br>2.5     | —<br>52.0<br>103.9        | —<br>54<br>108 | 131.3<br>131.3<br>147.0 | 150<br>150<br>175 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 14.4             | 2.5<br>2.5<br>2.5     | —<br>52.0<br>103.9        | —<br>54<br>108 | 145.7<br>145.7<br>165.0 | 175<br>175<br>175 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | —                | 2.5<br>2.5<br>2.5     | —<br>52.0<br>103.9        | —<br>54<br>108 | 142.6<br>142.6<br>158.3 | 175<br>175<br>175 |
|                     |                        |                  |     |              |     |              |     |              |     |              |     |                        |             |                         |      | 14.4             | 2.5<br>2.5<br>2.5     | —<br>52.0<br>103.9        | —<br>54<br>108 | 157.0<br>157.0<br>176.3 | 175<br>175<br>200 |

See Legend and Notes on page 20.

**Table 7B — Electrical Data — 50A2,A3,A4,A5 Units With Convenience Outlet (cont)**

| UNIT<br>SIZE<br>50A | VOLTAGE<br>3 PH, 60 Hz | VOLTAGE<br>RANGE |     | COMPRESSOR   |      |              |      |              |      |              |      | CONDENSER<br>FAN MOTOR |             | EVAPORATOR<br>FAN MOTOR |      | POWER<br>EXHAUST | CONVENIENCE<br>OUTLET | OPTIONAL<br>ELECTRIC HEAT |                     | POWER SUPPLY            |                         |                   |
|---------------------|------------------------|------------------|-----|--------------|------|--------------|------|--------------|------|--------------|------|------------------------|-------------|-------------------------|------|------------------|-----------------------|---------------------------|---------------------|-------------------------|-------------------------|-------------------|
|                     |                        |                  |     | Cir A, No. 1 |      | Cir A, No. 2 |      | Cir B, No. 1 |      | Cir B, No. 2 |      |                        |             |                         |      |                  |                       |                           |                     |                         |                         |                   |
|                     |                        | Min              | Max | R/LA         | L/R  | R/LA         | L/R  | R/LA         | L/R  | R/LA         | L/R  | Qty                    | FLA         | Hp                      | FLA  | FLA<br>(total)   | FLA                   | FLA                       | kW                  | MCA                     | MOCP*                   |                   |
| 060<br>(RTPF)       | 208                    | 187              | 229 | 51.3         | 300  | 51.3         | 300  | 51.3         | 300  | 51.3         | 300  | 6                      | 6.5<br>(ea) | 25                      | 74.8 | —                | 7.0<br>7.0<br>7.0     | —<br>112.6<br>225.2       | —<br>41<br>81       | 344.7<br>344.7<br>344.7 | 400<br>400<br>400       |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      | 35.4             | 7.0<br>7.0<br>7.0     | —<br>112.6<br>225.2       | —<br>41<br>81       | 380.1<br>380.1<br>380.7 | 450<br>450<br>450       |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      | —                | 7.0<br>7.0<br>7.0     | —<br>112.6<br>225.2       | —<br>41<br>81       | 361.2<br>361.2<br>361.2 | 400<br>400<br>400       |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      | 35.4             | 7.0<br>7.0<br>7.0     | —<br>112.6<br>225.2       | —<br>41<br>81       | 396.6<br>396.6<br>396.6 | 450<br>450<br>450       |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      | —                | 7.0<br>7.0<br>7.0     | —<br>112.6<br>225.2       | —<br>41<br>81       | 393.7<br>393.7<br>393.7 | 500<br>500<br>500       |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      | 35.4             | 7.0<br>7.0<br>7.0     | —<br>112.6<br>225.2       | —<br>41<br>81       | 429.1<br>429.1<br>429.1 | 500<br>500<br>500       |                   |
|                     |                        | 230              | 207 | 253          | 51.3 | 300          | 51.3 | 300          | 51.3 | 300          | 51.3 | 300                    | 6           | 6.6<br>(ea)             | 25   | 68.0             | —                     | 7.0<br>7.0<br>7.0         | —<br>129.9<br>259.8 | —<br>54<br>108          | 336.8<br>336.8<br>353.6 | 400<br>400<br>400 |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      |                  | 35.4                  | 7.0<br>7.0<br>7.0         | —<br>129.9<br>259.8 | —<br>54<br>108          | 372.2<br>372.2<br>397.8 | 400<br>400<br>450 |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      |                  | —                     | 7.0<br>7.0<br>7.0         | —<br>129.9<br>259.8 | —<br>54<br>108          | 351.8<br>351.8<br>368.6 | 400<br>400<br>400 |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      |                  | 35.4                  | 7.0<br>7.0<br>7.0         | —<br>129.9<br>259.8 | —<br>54<br>108          | 387.2<br>387.2<br>412.8 | 450<br>450<br>450 |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      |                  | —                     | 7.0<br>7.0<br>7.0         | —<br>129.9<br>259.8 | —<br>54<br>108          | 381.8<br>381.8<br>398.6 | 450<br>450<br>500 |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      |                  | 35.4                  | 7.0<br>7.0<br>7.0         | —<br>129.9<br>259.8 | —<br>54<br>108          | 417.2<br>417.2<br>442.8 | 500<br>500<br>500 |
|                     | 460                    | 414              | 508 | 22.4         | 150  | 22.4         | 150  | 22.4         | 150  | 22.4         | 150  | 6                      | 3.3<br>(ea) | 25                      | 34.0 | —                | 3.5<br>3.5<br>3.5     | —<br>65.0<br>129.9        | —<br>54<br>108      | 155.4<br>155.4<br>176.8 | 175<br>175<br>200       |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      | 18.9             | 3.5<br>3.5<br>3.5     | —<br>65.0<br>129.9        | —<br>54<br>108      | 174.3<br>174.3<br>200.4 | 200<br>200<br>225       |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      | —                | 3.5<br>3.5<br>3.5     | —<br>65.0<br>129.9        | —<br>54<br>108      | 162.9<br>162.9<br>184.3 | 200<br>200<br>200       |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      | 18.9             | 3.5<br>3.5<br>3.5     | —<br>65.0<br>129.9        | —<br>54<br>108      | 181.8<br>181.8<br>207.9 | 200<br>200<br>225       |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      | —                | 3.5<br>3.5<br>3.5     | —<br>65.0<br>129.9        | —<br>54<br>108      | 177.9<br>177.9<br>199.3 | 225<br>225<br>250       |                   |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      | 18.9             | 3.5<br>3.5<br>3.5     | —<br>65.0<br>129.9        | —<br>54<br>108      | 196.8<br>196.8<br>222.9 | 225<br>225<br>250       |                   |
|                     |                        | 575              | 518 | 632          | 19.9 | 109          | 19.9 | 190          | 19.9 | 109          | 19.9 | 109                    | 6           | 2.6<br>(ea)             | 25   | 27.0             | —                     | 2.5<br>2.5<br>2.5         | —<br>52.0<br>103.9  | —<br>54<br>108          | 131.5<br>131.5<br>140.8 | 150<br>150<br>150 |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      |                  | 14.4                  | 2.5<br>2.5<br>2.5         | —<br>52.0<br>103.9  | —<br>54<br>108          | 145.9<br>145.9<br>158.8 | 150<br>150<br>175 |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      |                  | —                     | 2.5<br>2.5<br>2.5         | —<br>52.0<br>103.9  | —<br>54<br>108          | 137.7<br>137.7<br>147.0 | 150<br>150<br>175 |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      |                  | 14.4                  | 2.5<br>2.5<br>2.5         | —<br>52.0<br>103.9  | —<br>54<br>108          | 152.1<br>152.1<br>165.0 | 175<br>175<br>175 |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      |                  | —                     | 2.5<br>2.5<br>2.5         | —<br>52.0<br>103.9  | —<br>54<br>108          | 149.0<br>149.0<br>158.3 | 175<br>175<br>175 |
|                     |                        |                  |     |              |      |              |      |              |      |              |      |                        |             |                         |      |                  | 14.4                  | 2.5<br>2.5<br>2.5         | —<br>52.0<br>103.9  | —<br>54<br>108          | 163.4<br>163.4<br>176.3 | 200<br>200<br>200 |

See Legend and Notes on page 20.

**T-STAT (Conventional Thermostat)** — Unit can be controlled with a Carrier-approved accessory electro-mechanical or electronic thermostat that has two stages of cooling, two stages of heating control and an output for indoor fan control. It may also include time of day scheduling or use the scheduling routines built into the *ComfortLink™* controls.

Install thermostat according to the installation instructions included with accessory thermostat. Locate thermostat assembly on a solid interior wall in the conditioned space to sense average temperature.

Route thermostat cable or equivalent single leads of colored wire from subbase terminals through conduit into unit to low voltage connection in the main control box, as shown in Fig. 17 and 18. For thermostat TB4 connections see Fig. 17.

**NOTE:** For wire runs up to 50 ft, use no. 18 AWG (American Wire Gage) 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. Set heat anticipator settings as follows:

| SIZE    | STAGE 1<br>(W1) ON | STAGE 2<br>(W1 AND W2) ON |
|---------|--------------------|---------------------------|
| 020-050 | 0.24               | 0.13                      |
| 060     | 0.36               | 0.13                      |

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

**SPT (Space Temperature Sensor)** — For constant volume applications the *ComfortLink* controls can also be used with T55 and T56 space temperature sensors that use a 10K thermistor. The T56 sensor also has the capability for a configurable temperature set point offset at the thermostat. For variable air volume applications only the T55 sensor can be used.

Install sensor according to the installation instructions included with accessory sensor. Locate sensor assembly on a solid interior wall in the conditioned space to sense average temperature.

Run wiring to the space sensor as shown in Fig. 18.

Note that when the remote sensor is used, the red jumper wires provided must be connected from TB4 terminal 4 to 5 and TB4 terminal 5 to 1.

Both the T55 and T56 have a CCN communications port and this should be wired to the CCN Communications TB3 board if it is desired to have access to the CCN system through the sensor. If more than one T-55 sensor is being used and averaged, sensors must be wired in multiples of 4 or 9 as shown in Fig. 19.

**T58 Communicating Thermostat** — Carrier also has a fully communicating thermostat which, if used, will be wired to the CCN communication connections on TB3 as described in the Carrier Comfort Network® Interface section below.

**Carrier Comfort Network (CCN) Interface** — The rooftop units can be connected to the CCN system. The communication bus wiring is supplied and installed in the field. Wiring consists of shielded, 3-conductor cable with drain wire. The system elements are connected to the communication bus in a daisy chain arrangement. The positive pin of each system element communication connector must be wired to the positive pins of the system element on either side of it, the negative pins must be wired to the negative pins, and the signal pins must be wired to signal ground pins. Wiring connections for CCN system should be made at the TB3 terminal block using the screw terminals. The TB3 board also contains an RJ14 CCN plug that can be used to connect a field service computer or other CCN device. There is also an RJ14 LEN (local equipment network) connection that is used to connect a Navigator™ display or download software.

Conductors and drain wire must be 20 AWG minimum stranded, tinned copper. Individual conductors must be

insulated with PVC, PVC/nylon, vinyl, Teflon, or polyethylene. An aluminum/polyester 100% foil shield and an outer jacket of PVC, PVC/nylon, chrome vinyl, or Teflon with a minimum operating temperature range of -4 F to 140 F is required. Table 8 lists cables that meet the requirements.

**Table 8 — CCN Connection Approved Shield Cable**

| MANUFACTURER | CABLE PART NO. |
|--------------|----------------|
| Alpha        | 2413 or 5463   |
| American     | A22503         |
| Belden       | 8772           |
| Columbia     | 02525          |

**IMPORTANT:** When connecting to CCN communication bus to system elements, use color coding system for the entire network to simplify installation and checkout. See Table 9.

**Table 9 — Color Code Recommendations**

| SIGNAL TYPE  | CCN BUS CONDUCTOR<br>INSULATION COLOR | CCN PLUG PIN<br>NO. |
|--------------|---------------------------------------|---------------------|
| Positive (+) | RED                                   | 1                   |
| Ground       | WHITE                                 | 2                   |
| Negative (-) | BLACK                                 | 3                   |

If a cable with a different color scheme is selected, a similar color code should be adopted for the entire network. At each system element, the shields of the communication bus cables must be tied together. If the communication bus is entirely within one building, the resulting continuous shield must be connected to a ground at one point only. If the communication bus cable exits from one building and enters another, the shields must be connected to grounds at the lightning suppressor in each building where the cable enters or exits the building (one point per building only).

To connect the unit to the network:

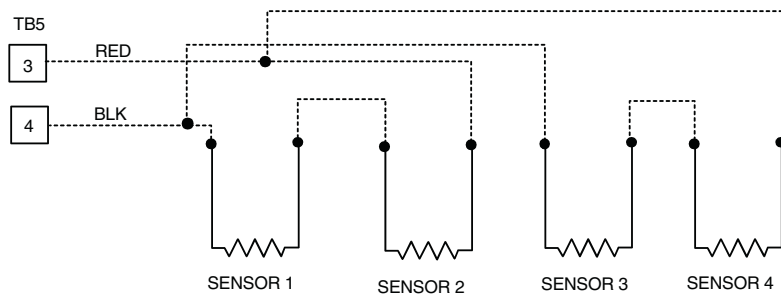
1. Turn off power to the control box.
2. Cut the CCN wire and strip the ends of the red (+), white (ground), and black (-) conductors. (If a different network color scheme is used, substitute appropriate colors.)
3. Remove the 3-pin male plug from the base control board in the main control box, and connect the wires as follows:
  - a. Insert and secure the red (+) wire to terminal 1 of the 3-pin plug.
  - b. Insert and secure the white (ground) wire to terminal 2 of the 3-pin plug.
  - c. Insert and secure the black (-) wire to terminal 3 of the 3-pin plug.
4. Insert the plug into the existing 3-pin mating connector on the base module in the main control box.

**VAV Units With Heat** — For variable air volume units that will use heat, the variable air volume terminals should be interlocked with the unit at TB5 terminals 1 and 2 as shown on the wiring diagram.

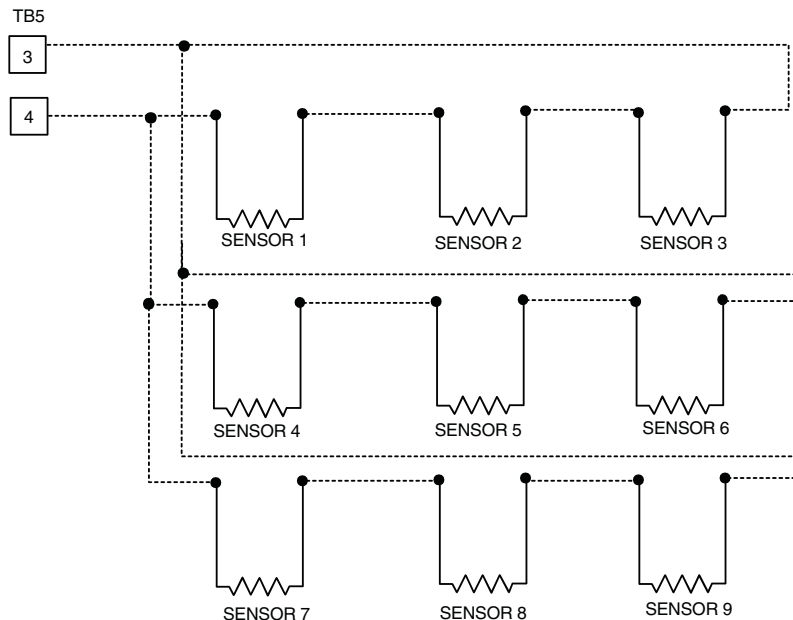
**Demand Ventilation** — The unit can be equipped with a CO<sub>2</sub> sensor for use in demand ventilation. This can be factory supplied and will be mounted in the return duct. It can also be field supplied and mounted in the return duct or in the space. Connect the field-installed 4 to 20 mA sensor to TB5 terminals 6 and 7. Do not remove the factory-installed 182-ohm resistor.

If an outdoor IAQ (indoor air quality) sensor is used then it should be wired to terminals 11 and 12 on TB6. This will require the use of the optional controls expansion module.

**Remote IAQ Override** — If the control is being used with non Carrier building management system it supports the use of the remote IAQ override switch. This should be connected to TB6 terminal 13 and 14. Use of this will require the optional controls expansion module.



SPACE TEMPERATURE AVERAGING (4 SENSOR APPLICATION)



SPACE TEMPERATURE AVERAGING (9 SENSOR APPLICATION)

NOTE: Use T55 sensor only.

**Fig. 19 — Space Temperature Averaging Wiring**

**Remote Economizer Position Control** — The *ComfortLink*™ controls will normally control the position of the economizer, but it can also support field control of the economizer position through a 4 to 20 mA signal. If this is used it should be connected to TB5 terminal 6 and 7. If the signal is a 4 to 20 mA signal then leave the 182-ohm resistor in place.

**Remote Economizer Minimum Position Control** — If the *ComfortLink* controller is controlling the economizer, but a remote minimum position is required then an external 100K potentiometer should be connected to TB5 terminal 6 and 7. Remove the factory-installed 182-ohm resistor.

**Remote Economizer Enable** — If the control is being used with other building management systems and the system will control the enabling and disabling of the economizer free cooling this switch input can be connected to TB6 terminals 1 and 2. Note that the controls also support integrated economizer changeover using outdoor dry bulb, differential dry bulb, outdoor enthalpy and differential enthalpy.

**Remote Occupancy Switch** — For interface to other building management systems the control also supports a switch input for remote occupancy signals. This wiring can be connected to terminal TB6 terminal 1 and 3.

**Smoke Sensor Interface** — The *ComfortLink* controls include an optional factory-installed return air smoke detector. Remote alarm circuits can be wired to TB5 terminal 8 and 9.

**Fire Shutdown and Smoke Control** — The control supports interface to fire and smoke control systems and allows for the following system overrides from remote switch inputs.

- Fire Shutdown — Connect to TB6 terminals 8 and 9.
- Smoke Pressurization — Connect to TB6 terminal 12 and 13. This requires the use of the optional controls expansion module.
- Smoke Evacuation — Connect to TB6 terminal 12 and 14. This requires the use of the optional controls expansion module.
- Smoke Purge — Connect to TB6 terminal 12 and 15. This requires the use of the optional controls expansion module.

**Demand Limiting** — The control can also be used with demand limiting control from remote building management systems. If a two-stage system is going to be used with redline limiting where the machine is not allowed to increase load and load shed where the load is decreased to a configurable limit in capacity then these can be connected to TB6 terminals 4 and 5 and 5 and 6. This requires use of the controls expansion module.

### Step 7 — Make Outdoor-Air Inlet Adjustments

**ECONOMIZER AND FIXED OUTDOOR AIR DAMPER** — Hoods are used on all units with economizer or adjustable self-closing fixed outdoor air damper.

NOTE: If accessory power exhaust or barometric relief packages are being added to the unit, install power exhaust or barometric relief before installing economizer hoods.

**Economizer Hood Assembly** — The economizer hood is shipped in a package secured to the outside of the unit. The hood assemblies must be field-assembled. The 50A4,A5 units are side supply and side return. The return duct limits access to economizer filters from below. Filter tracks (mounting angle without tabs) must be installed correctly to allow access to economizer filters from each side.

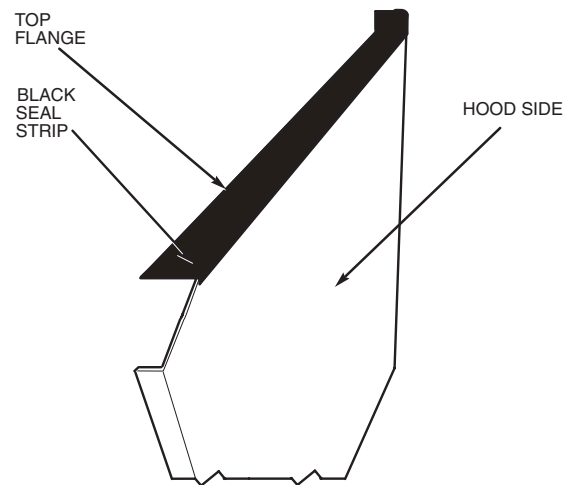
The 50A2,A3,A4,A5020-050 units have two hoods on every unit. Each hood has two lower filter tracks, one slotted side and one side without slots. Construct the assembly so that the slotted side is adjacent to the other hood when mounted on the unit.

The 50A2,A3,A4,A5060 units have 3 hoods on every unit. Each hood has two lower filter tracks, one slotted side and one side without slots. Construct the two outer hood assemblies so that the slotted sides are adjacent to the center hood when mounted on the unit.

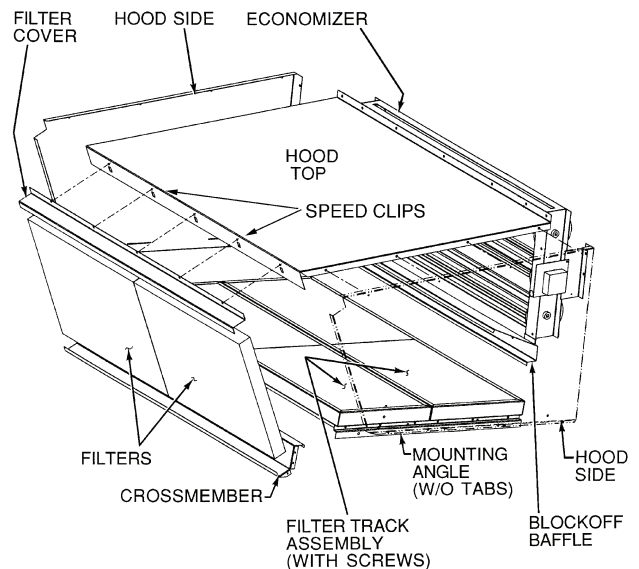
NOTE: Before assembly of the economizer hood, check along the outer edges of the economizer assembly for any seal strip protruding past the flanges. Trim the excess seal strip so that it is flush with the economizer assembly flanges.

Perform the following procedure to assemble the economizer hood.

1. Apply black seal strip (provided) to outside top-edge of hood sides. Wrap seal strip over edge to cover top flange (6 hood sides). Make sure seal strip covers screw holes. Allow strip to overhang  $\frac{1}{8}$ -in. past the end opposite the mounting flange. See Fig. 20.
2. Assemble hood sides, top, and cross member with gasketed screws provided. See Fig. 21.
3. Attach 15 green speed clips (provided) to hood top.
4. Apply black seal strip (provided) to mounting flanges of hood sides being sure to cover mounting holes. See Fig. 22.
5. Apply black seal strip (provided) to back of hood top mounting flange. Seal strip of hood top mounting flange must press tightly against seal strip of hood side mounting flanges. See Fig. 23.
6. Add gray foam strip (provided) to cross members on bottom tray. See Fig. 24.
7. Place gray foam strip (provided) on inside of slotted hood side between filter and cross member opposite the mounting end. See Fig. 25.
8. Attach gray foam strip (provided) to block-off baffle on outer face of flange. See Fig. 26.
9. Remove the screws on each end and along top of damper assembly of unit. Remove top 4 screws on each side of filter panel under damper assembly. Set hood assembly in place and attach to unit using these screws.
10. Remove screws along bottom of damper assembly. Locate and mount blockoff baffle using these screws.
11. Assemble 2 filter tracks side-by-side with the assembled ends together.
12. Attach mounting angle (without tabs) to the assembled end of the filter track. See Fig. 27.
13. Attach 9 green speed clips (provided) to hood side panels without slots. Engagement section of clip faces up and towards the outside of the hood side panels.
14. Attach remaining mounting angle (with tabs) to other end of the filter track with no. 10 screws provided. See Fig. 28.

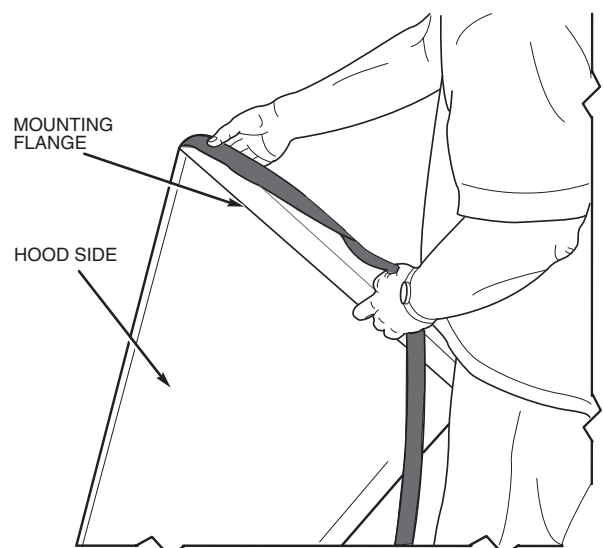


**Fig. 20 — Adding Seal Strip to Top of Hood Sides**

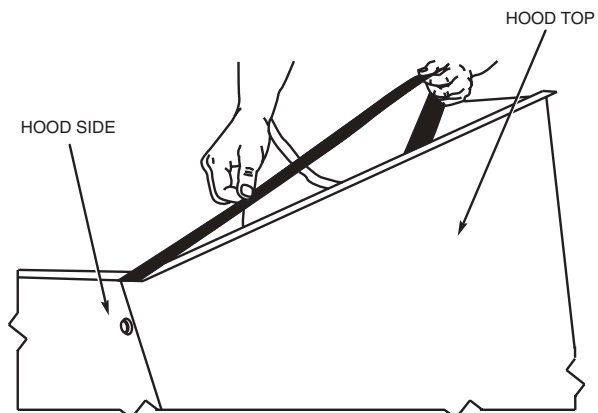


NOTE: Left side economizer hood has mounting angle without tabs and filter rack assembled end on the opposite side.

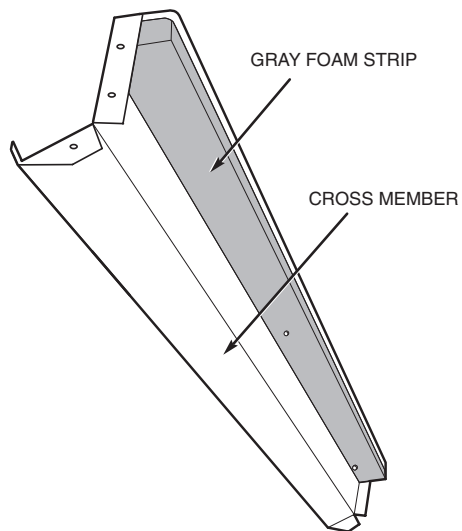
**Fig. 21 — Economizer Hood Assembly (Right Side/Center Economizer Hood Shown)**



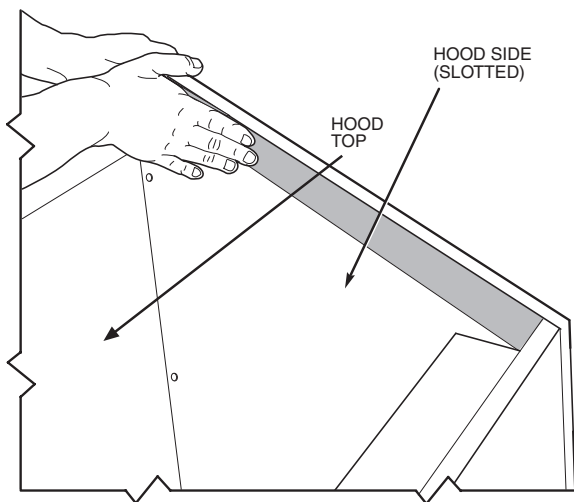
**Fig. 22 — Adding Seal Strip to Sides of Hood Top Mounting Flange**



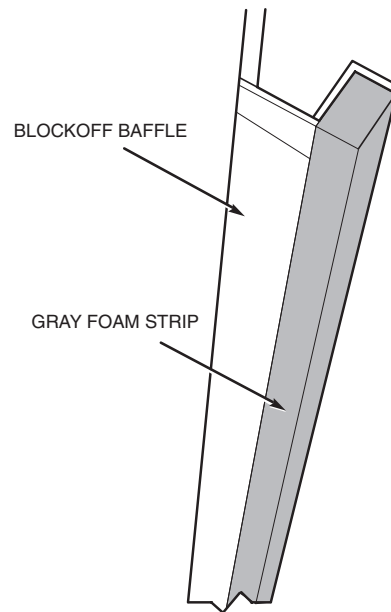
**Fig. 23 — Adding Seal Strip to Back of Hood Top Mounting Flange**



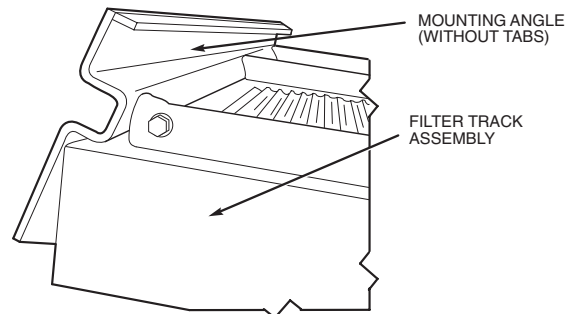
**Fig. 24 — Adding Foam Strip to Cross Member**



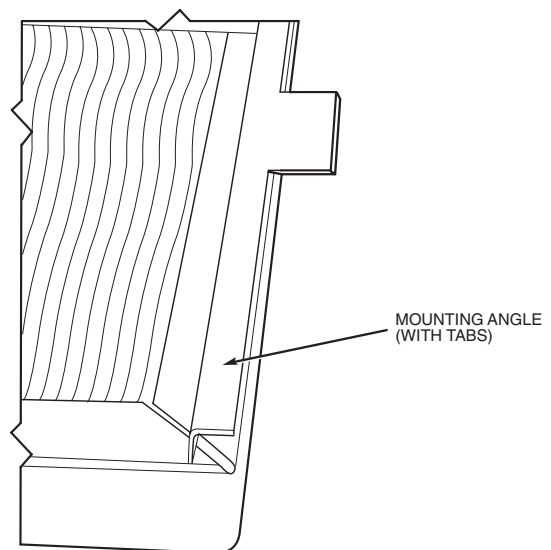
**Fig. 25 — Adding Foam Strip to Hood Side**



**Fig. 26 — Adding Seal Strip to Blockoff Baffle**



**Fig. 27 — Mounting Angle (Without Tabs) Attached to Filter Track Assembly**



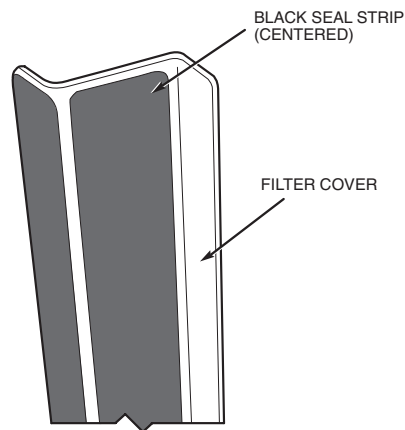
**Fig. 28 — Mounting Angle (With Tabs) Attached to Filter Track Assembly**

15. Place filter track assembly in bottom of hood by placing tabbed end into slotted side (with tab on bottom) and attaching opposite end to hood with speed clips and gasketed screws provided. Tabs can be hand bent after they have been inserted into the side.

NOTE: The filter track assembly end with screws should face away from the other hood when mounted on the unit. Be sure the filters are installed with the airflow in the correct direction.

NOTE: Tabs from both filter tracks will be in the same space. After one filter track has been inserted into hood side, bend the tabs so they will not interfere with installation of the second/center hood.

16. Attach black seal strip (provided) to filter cover. Seal strip should be applied centered over the holes of the one flange, making sure to fully cover holes and centered over the other large flange. See Fig. 29.
17. Slide two 20 x 25-in. filters into cross members of hood assembly. Attach filter cover over filters with screws and speed clips provided.



**Fig. 29 — Attaching Seal Strip to Filter Cover**

**Step 8 — Position Power Exhaust/Barometric Relief Damper Hood** — All units are shipped with the hoods folded inside the unit in a shipping position. For 50A2 and A3 units the hood must be tilted out once the unit is installed. On 50A4 and A5 units (designed for horizontal supply and return), the assemblies will have to be relocated to return ductwork. See Fig. 30 for dimensions and details.

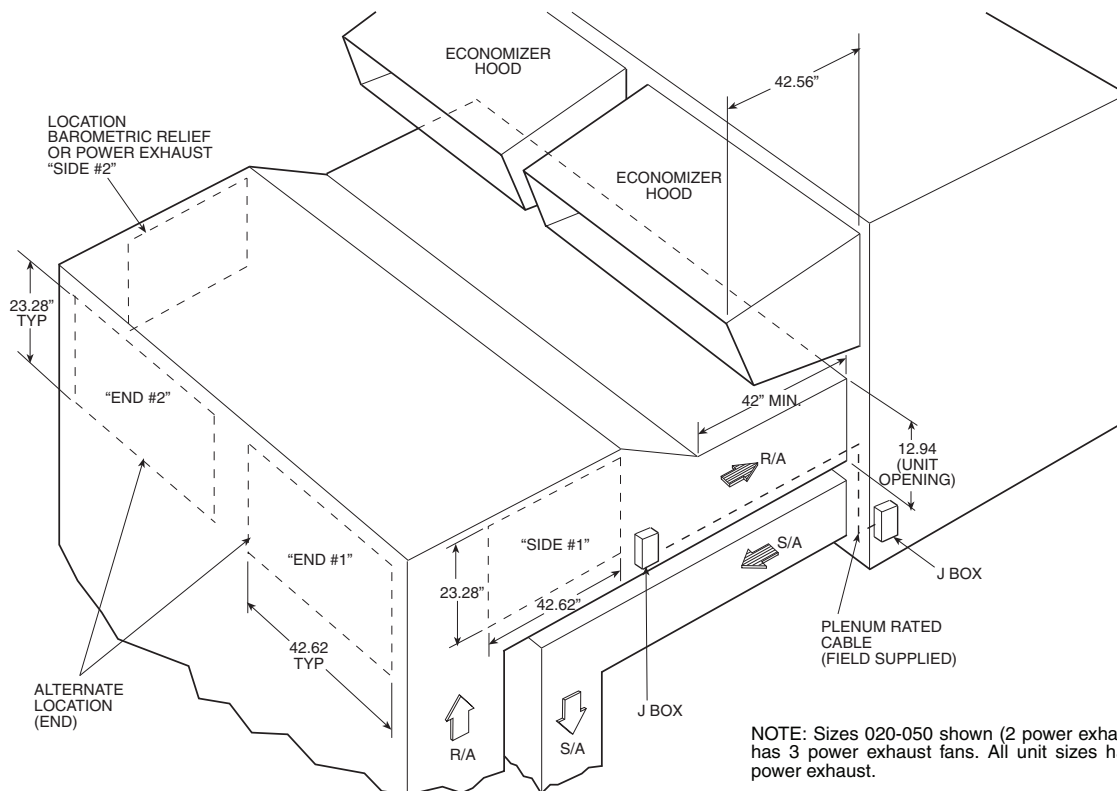
All electrical connections have been made and adjusted at the factory. The power exhaust blowers and barometric relief dampers are shipped assembled and tilted back into the unit for shipping. Brackets and extra screws are shipped in shrink wrap around the dampers. If ordered, each unit will have 4 (50A2,A3,A4,A5020-050 units) or 6 (50A2,A3,A4,A5060 units) power exhaust blowers and motors or barometric relief dampers.

1. Remove 9 screws holding each damper assembly in place. See Fig. 31. Each damper assembly is secured with 3 screws on each side and 3 screws along the bottom. Save screws.

#### CAUTION

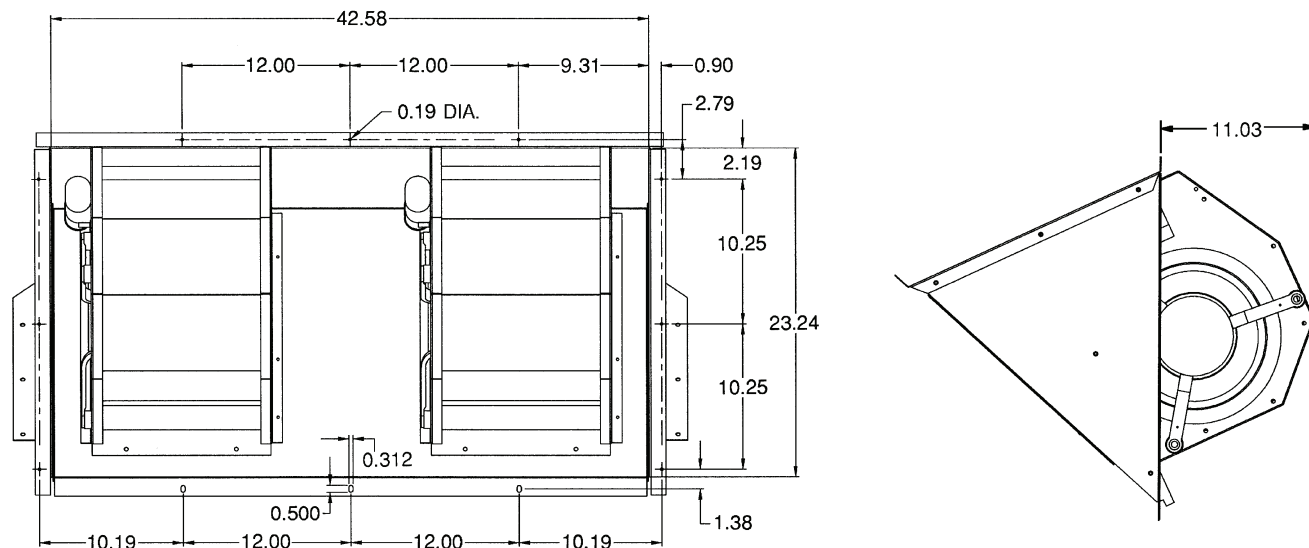
Be careful when tilting blower assembly. Hoods and blowers are heavy and can cause injury if dropped.

2. Pivot each damper assembly outward until edges of damper assembly rest 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.
5. Remove tape from damper blades.



NOTE: Sizes 020-050 shown (2 power exhaust fans). Size 060 has 3 power exhaust fans. All unit sizes have the same size power exhaust.

**Fig. 30 — Side Return Air Conversion**



**NOTES:**

1. Unless otherwise specified, all dimensions are to outside of part.
2. Dimensions are in inches.
3. On 50A4,A5 units, accessory barometric relief or power exhaust must be mounted in the field-supplied return ductwork.

**Fig. 31 — Barometric Relief Damper and Power Exhaust Mounting Details**

## Step 9 — Route Static Pressure Sensors

**VAV DUCT PRESSURE TRANSDUCER** — The VAV duct pressure transducer (VAV inverter pressure transducer) is located behind the filter access door on the lower inner panel. See Fig. 32. A section of field-supplied  $\frac{1}{4}$ -in. plastic tubing must be run from the high pressure tap on the differential pressure switch and connected to a field-supplied tap in the supply-air duct. The tap is usually located  $\frac{2}{3}$  of the way out on the main supply duct. Remove plug button in panel to route tubing.

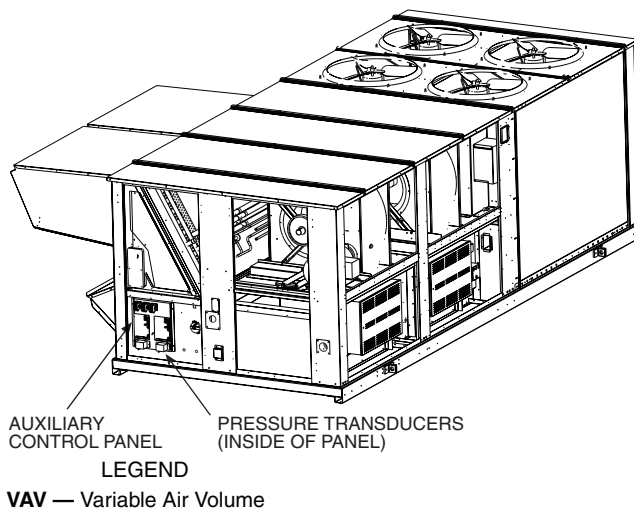
**BUILDING PRESSURE TRANSDUCER** — The building pressure transducer (modulating power exhaust pressure transducer) is located behind the filter access door on the lower inner panel. See Fig. 32. A section of field-supplied  $\frac{1}{4}$ -in. plastic tubing must be run from the high pressure tap on the differential pressure switch to the conditioned space. The pressure tube must be terminated in the conditioned space where a constant pressure is required. This location is usually in an entrance lobby so that the building exterior doors will open and close properly. Remove plug button in panel to route tubing.

The low pressure tap is factory-routed to the atmosphere. For a positive-pressure building, route the high tap to building air and low tap to atmosphere. For a negative-pressure building, route the high tap to atmosphere and the low tap to building air.

**Step 10 — Install All Accessories** — After all the factory-installed options have been adjusted, install all field-installed accessories. Refer to the accessory installation instructions included with each accessory.

The 50A Series units have a large number of factory-installed options which were previously available only as accessories. Some of the available options can also be installed in the field if needed. In most cases the units have been pre-wired so that the accessories can be easily installed. Instructions are shipped with each accessory. Configuration of the controls for these accessories as well as the factory-installed options can be found in the Controls, Start-up, Operation, Service and Troubleshooting book. The following is a list of some of the common accessories:

- Thermostats and space temperature sensors
- Accessory barometric relief damper



**Fig. 32 — Pressure Transducer Locations**

- Accessory power exhaust
- Non-modulating to modulating power exhaust
- Condenser coil hail guards
- Outdoor humidity sensor (used for economizer enthalpy changeover)
- Return air humidity sensors (used for economizer differential enthalpy changeover)
- Return air smoke detector
- Controls expansion module (used for interface to building management systems, not typically needed on system with Carrier Comfort Network® [CCN] devices)
- Plugged filter sensor
- Motormaster® V low ambient head pressure control

**IMPORTANT:** Carrier recommends the installation of field-fabricated wind baffles on all vertically orientated condenser coils when operating in environments with prevailing winds of more than 5 MPH and where temperatures drop below 32 F. See the Motormaster accessory installation guide for instructions.

## Step 11 — Field Modifications

### DUCTWORK

**Bottom Return Units (50A2 and A3) Field-Modified for Side Return** — The 50A2 and A3 units with bottom return air connections may be field-modified to accommodate side return air connections.

**IMPORTANT:** The following section is a guideline and not a comprehensive procedure to field modify the units. The installing contractor must provide some design initiative. Field-conversion is complex and is not recommended. Units with electric heat must not be converted because of potential heating mode operating problems.

Conversion to horizontal return requires that the bottom return openings of the unit must be sealed with airtight panels capable of supporting the weight of a person. The return ductwork connection locations on the side of the unit are higher than normal (31-in. high). Unit-mounted power exhaust or barometric relief cannot be used because of return air ductwork will cover the power exhaust or barometric relief installation locations. Power exhaust or barometric relief may be installed in the return air ductwork.

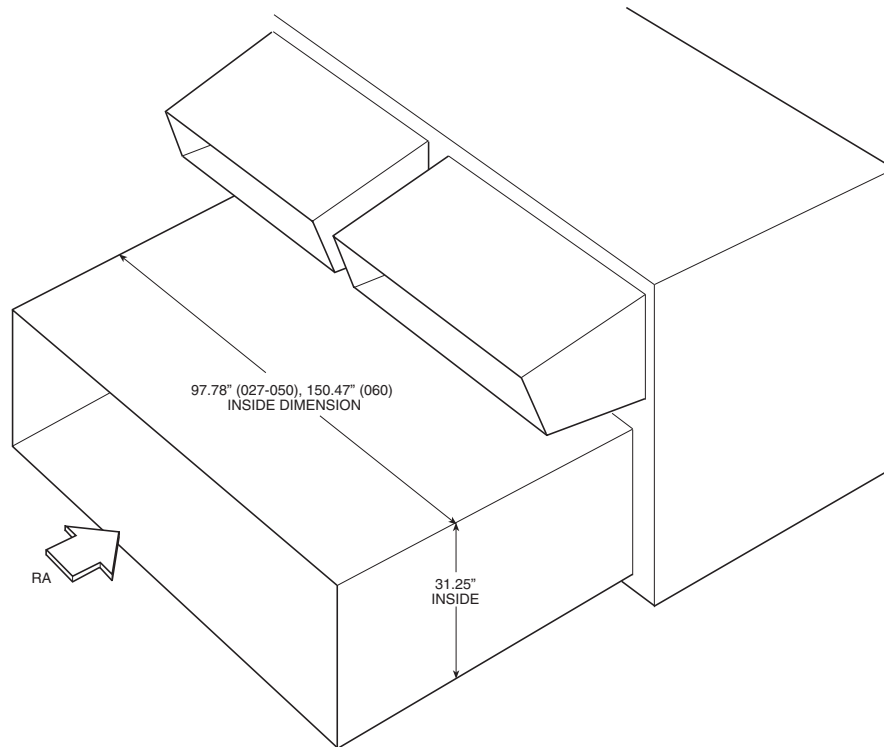
To convert the unit, perform the following:

1. Seal the bottom return openings of the unit with airtight panels capable of supporting the weight of a person.

2. Remove the panels located below the economizer outdoor-air dampers. These openings will be used for the return-air ductwork. There are 2 panels on 50A2,A3020-050 units. There are 3 panels on 50A2,A3060 units. These openings are normally used for power exhaust or barometric relief.
3. Run the return air ductwork up to the openings. One single duct is recommended to connect to the unit over the return air openings. See Fig. 33. The return duct must incorporate a minimum  $\frac{3}{4}$ -in. flange for connection to the unit cabinet. The unit does not have duct flanges for this conversion.

**Side Supply and Return Units (50A4,A5) With Field-Installed Power Exhaust in Return Duct** — Space must be available in the return duct to mount the power exhaust fan (gravity relief) modules. Dimensions and suggested locations are shown in Fig. 30. These instructions are a guideline and not a comprehensive procedure. The design contractor must provide some design initiative.

The wiring harness that is provided with the power exhaust accessory is not long enough for the fan modules to be mounted in the return air duct. Field-supplied wiring must be spliced into the harness. Use a junction box at each splice. The wiring may be run in the return duct as shown in Fig. 30, or externally in conduit. A service access panel will be needed near each power exhaust fan.



**Fig. 33 — Side Return Air Conversion**





