



14 SEER PACKAGE DUAL FUEL HEAT PUMP, 2 to 5 TONS

Single Phase, 208/230 V, 60 Hz

REFRIGERATION CIRCUIT

- Environmentally sound R-410A refrigerant
- Scroll compressor standard on all models
- Copper tube/aluminum fin condenser and evaporator coils
- Dehumidification mode (airflow reduction) on all models

EASY TO INSTALL AND SERVICE

- Installs easily on a rooftop or at ground level
- Easy three-panel accessibility for maintenance and installation
- Easily converts to down discharge applications
- Combination gas heating, heat pump heating, and electric cooling

- Low NOx units available

BUILT TO LAST

- Hail guard (3/8" spacing) wire grilles standard on PDS models (2" spacing wire grilles on PDD models)
- Induced-draft combustion and venting
- Pre-painted steel cabinet
- Aluminized steel tubular heat exchanger on PDD4 models, Stainless Steel tubular heat exchanger on PDS4 models
- Direct spark ignition
- High efficiency ECM indoor blower motor on all models
- Vertical condenser fan discharge
- Full perimeter steel base rails
- High and low pressure switches provide added reliability for the compressor
- PDS4 models come with tin-coated copper evaporator coil standard

WARRANTY*

- 5 year No Hassle Replacement™ limited warranty for PDS4 models
- 15 year heat exchanger limited warranty for PDD4, Lifetime heat exchanger limited warranty for PDS4 models
- 5 year parts limited warranty (including compressor and coils)– With timely registration, an additional 5 year parts limited warranty (including compressor and coils)
- With timely registration, an additional 5 year parts limited warranty (including compressor and coils)

*Applies to original purchaser/homeowner, some limitations may apply. See warranty certificate for complete details.



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to www.ahridirectory.org.



As an Energy Star® Partner, International Comfort Products has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.



| UNIT PERFORMANCE DATA | | | | | | | | | | |
|---------------------------------|--------------------------------|-------------------|------|------|-------------------|------|----------------|----------------------|--|------------------------------|
| Aluminized Steel Heat Exchanger | Stainless Steel Heat Exchanger | COOLING | | | HEAT PUMP HEATING | | GAS HEATING | | Unit Dimensions Height x Width x Depth in (mm) | Operating Weight lbs (kg) |
| | | Capacity BTU/h | SEER | EER | Capacity BTU/h | HSPF | Input BTU/h | Efficiency AFUE % | | |
| PDD424040K00°C | PDS424040KGP°C | 23,000 | 14.2 | 12.0 | 23,000 | 8.0 | 40,000 | 80.0 | 44 ¹ / ₈ x48 ³ / ₁₆ x32 ⁵ / ₈ (1121x1224x829) | 368 (167) |
| PDD424060K00°C | PDS424060KGP°C | 23,000 | 14.2 | 12.0 | 23,000 | 8.0 | 60,000 | 80.0 | 44 ¹ / ₈ x48 ³ / ₁₆ x32 ⁵ / ₈ (1121x1224x829) | 368 (167) |
| PDD430040K00°C | PDS430040KGP°C | 28,600 | 14.2 | 12.0 | 29,600 | 8.0 | 40,000 | 80.0 | 44 ¹ / ₈ x48 ³ / ₁₆ x32 ⁵ / ₈ (1121x1224x829) | 360 (163) |
| PDD430060K00°C | PDS430060KGP°C | 28,600 | 14.2 | 12.0 | 29,600 | 8.0 | 60,000 | 80.0 | 44 ¹ / ₈ x48 ³ / ₁₆ x32 ⁵ / ₈ (1121x1224x829) | 360 (163) |
| PDD436060K00°C | PDS436060KGP°C | 35,800 | 14.5 | 12.0 | 35,800 | 8.0 | 60,000 | 78.5 | 44 ³ / ₄ x48 ³ / ₁₆ x44 ¹ / ₈ (1137x1224x1122) | 440 (200) |
| PDD436090K00°C | PDS436090KGP°C | 35,800 | 14.5 | 12.0 | 35,800 | 8.0 | 90,000 | 80.4 | 44 ³ / ₄ x48 ³ / ₁₆ x44 ¹ / ₈ (1137x1224x1122) | 440 (200) |
| PDD442060K00°C | PDS442060KGP°C | 40,500 | 14.5 | 12.0 | 41,500 | 8.0 | 60,000 | 78.5 | 48 ³ / ₄ x48 ³ / ₁₆ x44 ¹ / ₈ (1238x1224x1122) | 486 (220) |
| PDD442090K00°C | PDS442090KGP°C | 40,500 | 14.5 | 12.0 | 41,500 | 8.0 | 90,000 | 80.4 | 48 ³ / ₄ x48 ³ / ₁₆ x44 ¹ / ₈ (1238x1224x1122) | 486 (220) |
| PDD448090K00°C | PDS448090KGP°C | 46,500 | 14.5 | 12.0 | 45,500 | 8.0 | 90,000 | 80.4 | 48 ³ / ₄ x48 ³ / ₁₆ x44 ¹ / ₈ (1238x1224x1122) | 506 (230) |
| PDD448115K00°C | PDS448115KGP°C | 46,500 | 14.5 | 12.0 | 45,500 | 8.0 | 115,000 | 80.3 | 48 ³ / ₄ x48 ³ / ₁₆ x44 ¹ / ₈ (1238x1224x1122) | 506 (230) |
| PDD448130K00°C | PDS448130KGP°C | 46,500 | 14.5 | 12.0 | 45,500 | 8.0 | 130,000 | 78.9 | 48 ³ / ₄ x48 ³ / ₁₆ x44 ¹ / ₈ (1238x1224x1122) | 506 (230) |
| PDD460090K00°C | PDS460090KGP°C | 57,000 | 14.5 | 12.0 | 59,000 | 8.0 | 90,000 | 80.4 | 54 ³ / ₄ x48 ³ / ₁₆ x44 ¹ / ₈ (1391x1224x1122) | 540 (245) |
| PDD460115K00°C | PDS460115KGP°C | 57,000 | 14.5 | 12.0 | 59,000 | 8.0 | 115,000 | 80.3 | 54 ³ / ₄ x48 ³ / ₁₆ x44 ¹ / ₈ (1391x1224x1122) | 540 (245) |
| PDD460130K00°C | PDS460130KGP°C | 57,000 | 14.5 | 12.0 | 59,000 | 8.0 | 130,000 | 78.9 | 54 ³ / ₄ x48 ³ / ₁₆ x44 ¹ / ₈ (1391x1224x1122) | 540 (245) |

* - 0 = Standard, 1 = Low NOx

| MODEL NOMENCLATURE | | | | | | | | | | | |
|---|---|---|---|---|-----|-------|----|-------|----|----|----|
| MODEL SERIES | 1 | 2 | 3 | 4 | 5,6 | 7,8,9 | 10 | 11,12 | 13 | 14 | 15 |
| | P | D | D | 4 | 36 | 090 | K | 00 | 0 | C | 1 |
| TYPE P = Package A = Air Conditioner H = Heat Pump G = Gas/Electric D = Dual Fuel | | | | | | | | | | | |
| TIER D = Standard S = Mainline w/ SS HX | | | | | | | | | | | |
| SEER 3 = 13 4 = 14 5 = 15 24 = 24,000 BTUH = 2 Tons 30 = 30,000 BTUH = 2.5 Tons 36 = 36,000 BTUH = 3 Tons 42 = 42,000 BTUH = 3.5 Tons 48 = 48,000 BTUH = 4 Tons 60 = 60,000 BTUH = 5 Tons | | | | | | | | | | | |
| NOMINAL COOLING CAPACITY 000 = no factory heat 040 = 40,000 BTU/hr 060 = 60,000 BTU/hr 090 = 90,000 BTU/hr 115 = 115,000 BTU/hr 130 = 130,000 BTU/hr | | | | | | | | | | | |
| NOMINAL HEATING BTUH (input) K = 208/230-1-60 H = 208/230-3-60 | | | | | | | | | | | |
| VOLTAGE 00 = No options GP = Tin Plated Evap Main Tubes plus Stainless Steel Heat Exchanger | | | | | | | | | | | |
| FACTORY INSTALLED OPTIONS 0 = Standard 1 = Low NOx | | | | | | | | | | | |
| FEATURE CODE Sales Model Digit Engineering Digit | | | | | | | | | | | |

AHRI* CAPACITIES

| COOLING CAPACITIES AND EFFICIENCIES | | | | | |
|-------------------------------------|--------------|--------------|---------------------------|-------|-------|
| UNIT | NOMINAL TONS | STANDARD CFM | COOLING CAPACITIES (Btuh) | EER** | SEER† |
| 24 | 2 | 800 | 23,000 | 12.0 | 14.2 |
| 30 | 2-1/2 | 1000 | 28,600 | 12.0 | 14.2 |
| 36 | 3 | 1200 | 35,800 | 12.0 | 14.5 |
| 42 | 3-1/2 | 1400 | 40,500 | 12.0 | 14.5 |
| 48 | 4 | 1600 | 46,500 | 12.0 | 14.5 |
| 60 | 5 | 1750 | 57,000 | 12.0 | 14.5 |

| HEAT PUMP HEATING CAPACITIES AND EFFICIENCIES | | | | | |
|---|--|--------------------|---|---------------------|-------|
| UNIT | HEATING CAPACITY (Btuh) @ 47°F (8.3°C) | COP @ 47°F (8.3°C) | HEATING CAPACITY (Btuh) @ 17°F (-8.3°C) | COP @ 17°F (-8.3°C) | HSPF† |
| 24 | 23,000 | 3.5 | 11,400 | 2.2 | 8.0 |
| 30 | 29,600 | 3.5 | 15,400 | 2.1 | 8.0 |
| 36 | 35,800 | 3.5 | 19,800 | 2.4 | 8.0 |
| 42 | 41,500 | 3.4 | 23,000 | 2.3 | 8.0 |
| 48 | 45,500 | 3.4 | 26,000 | 2.4 | 8.0 |
| 60 | 59,000 | 3.4 | 32,000 | 2.4 | 8.0 |

See LEGEND on next page.

LEGEND

dba—Sound Levels (decibels)
db—Dry Bulb
SEER—Seasonal Energy Efficiency Ratio
wb—Wet Bulb
COP—Coefficient of Performance
HSPF—Heating Season Performance Factor
 * Air Conditioning, Heating & Refrigeration Institute.
 **At "A" conditions—80°F (26.7°C) indoor db/67°F (19.4°C) indoor wb & 95°F (35°C) outdoor db.
 † Rated in accordance with U.S. Government DOE Department of Energy) test procedures and/or AHRI Standards 210/240.

Notes:

1. Ratings are net values, reflecting the effects of circulating fan heat.
 Ratings are based on:
Cooling Standard: 80°F (26.7°C) db, 67°F (19.4°C) wb indoor entering—air temperature and 95°F (35°C) db outdoor entering—air temperature.
 2. Before purchasing this appliance, read important energy cost and efficiency information available from your retailer.

| GAS HEATING CAPACITIES AND EFFICIENCIES | | | | |
|--|----------------------|--------------------------------------|--------------------------------|------------------------------|
| UNIT PDD/S4 | HEATING INPUT (Btuh) | OUTPUT CAPACITY (Btuh) | TEMPERATURE RISE RANGE °F (°C) | AFUE (%) |
| 24040 30040 | 40,000 | 32,000 | 30–60 (16.7–33.3) | 80.0 |
| 24060 30060 36060 42060 | 60,000 | 48,000 48,000 47,000 47,000 | 25–55 (13.9–30.6) | 80.0 80.0 78.5 78.5 |
| 36090 42090 48090 60090 | 90,000 | 73,000 73,000 73,000 73,000 | 35–65 (19.4–36.1) | 80.4 80.4 80.4 80.4 |
| 48115 48115 | 115,000 | 93,000 | 30–60 (16.7–33.3) | 80.3 |
| 48130 60130 | 130,000 | 103,000 | 35–65 (19.4–36.1) | 78.9 |

LEGEND

AFUE—Annual Fuel Utilization Efficiency

NOTE: Before purchasing this appliance, read important energy cost and efficiency information available from your retailer.

| UNIT ELECTRICAL SPECIFICATIONS | | | | | | | | | | |
|---------------------------------------|-----------------|---------------|------|------------|-------|-----|-----|------|--------------|------|
| Model Number PDD/S4 | NOMINAL V-PH-HZ | Voltage Range | | Compressor | | OFM | IFM | IDM | Power Supply | |
| | | Min. | Max. | RLA | LRA | FLA | FLA | FLA | MCA | MOCP |
| 24040 | 208/230-1-60 | 187 | 253 | 13.5 | 58.3 | 0.7 | 4.1 | 0.65 | 21.7 | 30 |
| 24060 | | 187 | 253 | 13.5 | 58.3 | 0.7 | 4.1 | 1.65 | 21.7 | 30 |
| 30040 | | 187 | 253 | 14.1 | 73.0 | 1.2 | 4.1 | 0.65 | 22.9 | 35 |
| 30060 | | 187 | 253 | 14.1 | 73.0 | 1.2 | 4.1 | 1.65 | 22.9 | 35 |
| 36060 | | 187 | 253 | 17.1 | 79.0 | 1.2 | 6.0 | 1.65 | 28.6 | 40 |
| 36090 | | 187 | 253 | 17.1 | 79.0 | 1.2 | 6.0 | 0.65 | 28.6 | 40 |
| 42060 | | 187 | 253 | 20.6 | 112.0 | 1.2 | 6.0 | 1.65 | 33.0 | 50 |
| 42090 | | 187 | 253 | 20.6 | 112.0 | 1.2 | 6.0 | 0.65 | 33.0 | 50 |
| 48090 | | 187 | 253 | 20.6 | 109 | 1.2 | 7.6 | 0.65 | 34.6 | 50 |
| 48115 | | 187 | 253 | 20.6 | 109 | 1.2 | 7.6 | 1.65 | 34.6 | 50 |
| 48130 | | 187 | 253 | 20.6 | 109 | 1.2 | 7.6 | 0.52 | 34.6 | 50 |
| 60090 | | 187 | 253 | 26.4 | 134 | 1.2 | 7.6 | 0.65 | 41.8 | 60 |
| 60115 | | 187 | 253 | 26.4 | 134 | 1.2 | 7.6 | 1.65 | 41.8 | 60 |
| 60130 | | 187 | 253 | 26.4 | 134 | 1.2 | 7.6 | 0.52 | 41.8 | 60 |

See Legend and Notes below.

LEGEND

FLA – Full Load Amps
 LRA – Locked Rotor Amps
 MCA – Minimum Circuit Amps
 MOCP – Maximum Overcurrent Protection
 RLA – Rated Load Amps

NOTES

- In compliance with NEC (National Electrical Code) requirements for multimotor and combination load equipment (refer to NEC Articles 430 and 440), the overcurrent protective device for the unit shall be Power Supply fuse. The CGA (Canadian Gas Association) units may be fuse or circuit breaker.
- Minimum wire size is based on 60°C copper wire. If other than 60°C copper wire is used, or if length exceeds wire length in table, determine size from NEC.

| A-WEIGHTED SOUND POWER LEVEL (dba) | | | | | | | | |
|---|-----------------------|--|------|------|------|------|------|------|
| PDD/S4 | Standard Rating (dba) | TYPICAL OCTAVE BAND SPECTRUM (dba) (without tone adjustment) | | | | | | |
| | | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 24 | 74 | 63.5 | 64.5 | 69.0 | 69.5 | 65.0 | 59.5 | 50.0 |
| 30 | 75 | 63.5 | 66.0 | 71.0 | 69.5 | 66.5 | 61.0 | 54.0 |
| 36 | 74 | 64.0 | 66.0 | 68.0 | 68.0 | 66.5 | 60.5 | 52.0 |
| 42 | 73 | 63.5 | 63.5 | 66.5 | 67.0 | 64.5 | 60.0 | 52.5 |
| 48 | 74 | 68.5 | 65.0 | 67.0 | 67.5 | 65.0 | 60.5 | 53.0 |
| 60 | 75 | 68.0 | 64.5 | 68.5 | 69.0 | 65.5 | 62.0 | 58.0 |

NOTE: Tested in accordance with AHRI Standard 270 (not listed in AHRI).

| PHYSICAL DATA – 2 to 3 Ton | | | | | | |
|--|--|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| PDD/S4 | 24040 | 24060 | 30040 | 30060 | 36060 | 36090 |
| Unit Size (Ton) | 2 | 2 | 2.5 | 2.5 | 3 | 3 |
| Shipping Weight (lb) (kg) | 354 161 | 354 161 | 346 157 | 346 157 | 426 193 | 426 193 |
| Compressor Quantity | 1 | | | | | |
| Type | Scroll | | | | | |
| Refrigerant | R-410A | | | | | |
| Refrigerant Quantity (lb) Quantity (kg) | 11.1 5.0 | 11.1 5.0 | 10.3 4.7 | 10.3 4.7 | 9.9 4.5 | 9.9 4.5 |
| Refrigerant Metering Device | Indoor TXV, Outdoor Dual Fixed Orifice | | | | | |
| Orifice OD (in) (mm) | 0.032 (2) 0.81 (2) | 0.032 (2) 0.81 (2) | 0.037 (2) 0.94 (2) | 0.037 (2) 0.94 (2) | 0.038 (2) 0.97 (2) | 0.038 (2) 0.97 (2) |
| Outdoor Coil Rows... Fins/in, face area (sq. ft.) | 2...21 13.6 | 2...21 13.6 | 2...21 13.6 | 2...21 13.6 | 2...21 13.6 | 2...21 13.6 |
| Outdoor Fan Nominal Airflow (cfm) Diameter (in.) Diameter (mm) Motor hp (rpm) | 2500 24 610 1/10 (810) | 2500 24 610 1/10 (810) | 2700 24 610 1/5 (810) | 2700 24 610 1/5 (810) | 3100 26 660 1/5 (810) | 3100 26 660 1/5 (810) |
| Indoor Coil Rows... Fins/in, face area (sq. ft.) | 3...17 3.7 | 3...17 3.7 | 3...17 3.7 | 3...17 3.7 | 3...17 4.7 | 3...17 4.7 |
| Indoor Blower Nominal Airflow (cfm) Size (in.) Size (mm) Motor hp | 800 10 x 10 254 x 254 1/2 | 800 10 x 10 254 x 254 1/2 | 1000 10 x 10 254 x 254 1/2 | 1000 10 x 10 254 x 254 1/2 | 1200 11 x 10 279 x 254 3/4 | 1200 11 x 10 279 x 254 3/4 |
| Furnace Section* Burner Orifice Natural Gas Qty...Drill Size (Factory Installed) Propane Gas Qty...Drill Size | 2...44 2...55 | 2...38 2...53 | 2...44 2...55 | 2...38 2...53 | 2...38 2...53 | 3...38 3...53 |
| High Pressure Switch (psig) Cutout Reset (Auto) | 650 +/- 15 420 +/- 25 | | | | | |
| Loss-of-Charge/Low Pressure Switch (psig) Cutout Reset (Auto) | 20 +/- 5 45 +/- 10 | | | | | |
| Return Air Filters†‡ disposable (in) (mm) | 20x20x1 508x508x25 | | 20x24x1 508x610x25 | | 24x30x1 610x762x25 | |

*Based on altitude of 0 to 2000 ft (0–610 m).

†Required filter sizes shown are based on the larger of the AHRI (Air Conditioning, Heating, and Refrigeration Institute) rated cooling airflow or the heating airflow velocity of 300 ft/minute for high–capacity type. Air filter pressure drop for non–standard filters must not exceed 0.08 IN. W.C.

‡ If using accessory filter rack refer to filter rack installation instructions for correct filter size and quantity.

| PHYSICAL DATA – 3.5 to 6 Ton | | | | | | | | | |
|---|--|----------------|----------------|-----------------------|----------------|----------------|----------------|----------------|--|
| PDD/S4 | 42060 | 42090 | 48090 | 48115 | 48130 | 60090 | 60115 | 60130 | |
| Unit Size | 3.5 | 3.5 | 4 | 4 | 4 | 5 | 5 | 5 | |
| Shipping Weight (lb) | 472 | 472 | 460 | 460 | 460 | 506 | 506 | 506 | |
| (kg) | 214 | 214 | 209 | 209 | 209 | 230 | 230 | 230 | |
| Compressor Quantity | 1 | | | | | | | | |
| Type | Scroll | | | | | | | | |
| Refrigerant | R-410A | | | | | | | | |
| Refrigerant Quantity (lb) | 11.3 | 11.3 | 12.5 | 12.5 | 12.5 | 15.2 | 15.2 | 15.2 | |
| Quantity (kg) | 5.1 | 5.1 | 5.7 | 5.7 | 5.7 | 6.9 | 6.9 | 6.9 | |
| Refrigerant Metering Device | Indoor TXV, Outdoor Dual Fixed Orifice | | | | | | | | |
| Orifice OD (in) | 0.040 (2) | 0.040 (2) | 0.040 (2) | 0.040 (2) | 0.040 (2) | 0.049 (2) | 0.049 (2) | 0.049 (2) | |
| (mm) | 1.02 (2) | 1.02 (2) | 1.02 (2) | 1.02 (2) | 1.02 (2) | 1.24 (2) | 1.24 (2) | 1.24 (2) | |
| Outdoor Coil Rows... Fins/in, face area (sq. ft.) | 2...21 17.5 | 2...21 17.5 | 2...21 17.5 | 2...21 17.5 | 2...21 17.5 | 2...21 23.3 | 2...21 23.3 | 2...21 23.3 | |
| Outdoor Fan Nominal Airflow (cfm) | 3100 | 3100 | 3100 | 3100 | 3100 | 3500 | 3500 | 3500 | |
| Diameter (in.) | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | |
| Diameter (mm) | 660 | 660 | 660 | 660 | 660 | 660 | 660 | 660 | |
| Motor hp (rpm) | 1/5 (810) | 1/5 (810) | 1/5 (810) | 1/5 (810) | 1/5 (810) | 1/4 (810) | 1/4 (810) | 1/4 (810) | |
| Indoor Coil Rows... Fins/in, face area (sq. ft.) | 3...17 4.7 | 3...17 4.7 | 3...17 5.6 | 3...17 5.6 | 3...17 5.6 | 3...17 5.6 | 3...17 5.6 | 3...17 5.6 | |
| Indoor Blower Nominal Airflow (cfm) | 1400 | 1400 | 1600 | 1600 | 1600 | 1750 | 1750 | 1750 | |
| Size (in.) | 11 x 10 | 11 x 10 | 11 x 10 | 11 x 10 | 11 x 10 | 11 x 10 | 11 x 10 | 11 x 10 | |
| Size (mm) | 279x254 | 279x254 | 279x254 | 279x254 | 279x254 | 279x254 | 279x254 | 279x254 | |
| Motor hp | 3/4 | 3/4 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Furnace Section* Burner Orifice Natural Gas Qty...Drill Size (Factory Installed) | 2...38 | 3...38 | 3...38 | 3...33 | 3...31 | 3...38 | 3...33 | 3...31 | |
| Propane Gas Qty...Drill Size | 2...53 | 3...53 | 3...53 | 3...51 | 3...49 | 3...53 | 3...51 | 3...49 | |
| High Pressure Switch (psig) Cutout Reset (Auto) | 650 +/- 15 420 +/- 25 | | | | | | | | |
| Loss-of-Charge/Low Pressure Switch (psig) Cutout Reset (Auto) | 20 +/- 5 45 +/- 10 | | | | | | | | |
| Return Air Filters†‡ disposable (in) (mm) | 24x30x1 610x762x25 | | | 24x36x1 610x914x25 | | | | | |

*Based on altitude of 0 to 2000 ft (0–610 m).

†Required filter sizes shown are based on the larger of the AHRI (Air Conditioning, Heating, and Refrigeration Institute) rated cooling airflow or the heating airflow velocity of 300 ft/minute for high–capacity type. Air filter pressure drop for non–standard filters must not exceed 0.08 IN. W.C.

‡ If using accessory filter rack refer to filter rack installation instructions for correct filter size and quantity.

DRY COIL AIR DELIVERY* – HORIZONTAL AND DOWNFLOW DISCHARGE

| UNIT PDD/S4 | HEATING RISE RANGE | MOTOR SPEED | WIRE COLOR | | EXTERNAL STATIC PRESSURE (in wc) | | | | | | | | |
|----------------|--------------------------|-----------------------|---------------|-------------------|----------------------------------|------|------|------|-----|-----|-----|-----|-----|
| | | | | | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
| 24040 | 30 – 60°F (17 – 33°C) | Low | Blue | CFM | 754 | 650 | 536 | 429 | --- | --- | --- | --- | --- |
| | | | | Heating Rise (°F) | 40 | 46 | 56 | NA | NA | NA | NA | NA | |
| | | | | Heating Rise (°C) | 22 | 26 | 31 | NA | NA | NA | NA | NA | |
| | | Med-Low | Pink | CFM | 851 | 777 | 675 | 591 | 475 | --- | --- | --- | |
| | | | | Heating Rise (°F) | 36 | 39 | 45 | 51 | NA | NA | NA | NA | |
| | | | | Heating Rise (°C) | 20 | 22 | 25 | 28 | NA | NA | NA | NA | |
| | | Medium ² | Red | CFM | 941 | 851 | 774 | 684 | 576 | 479 | --- | --- | |
| | | | | Heating Rise (°F) | 32 | 36 | 39 | 44 | 52 | NA | NA | NA | |
| | | | | Heating Rise (°C) | 18 | 20 | 22 | 25 | 29 | NA | NA | NA | |
| | | Med-High ¹ | Orange | CFM | 1009 | 917 | 840 | 759 | 667 | 577 | 447 | --- | |
| | | | | Heating Rise (°F) | 30 | 33 | 36 | 40 | 45 | 52 | NA | NA | |
| | | | | Heating Rise (°C) | 17 | 18 | 20 | 22 | 25 | 29 | NA | NA | |
| | | High | Black | CFM | 1241 | 1167 | 1111 | 1036 | 969 | 881 | 818 | 731 | |
| | | | | Heating Rise (°F) | NA | NA | NA | NA | 31 | 34 | 37 | 41 | |
| | | | | Heating Rise (°C) | NA | NA | NA | NA | 17 | 19 | 21 | 23 | |
| 24060 | 25 – 55°F (14 – 31°C) | Low | Blue | CFM | 754 | 650 | 536 | 429 | --- | --- | --- | --- | |
| | | | | Heating Rise (°F) | NA | NA | NA | NA | NA | NA | NA | NA | |
| | | | | Heating Rise (°C) | NA | NA | NA | NA | NA | NA | NA | NA | |
| | | Med-Low | Pink | CFM | 851 | 777 | 675 | 591 | 475 | --- | --- | --- | |
| | | | | Heating Rise (°F) | 52 | NA | NA | NA | NA | NA | NA | NA | |
| | | | | Heating Rise (°C) | 29 | NA | NA | NA | NA | NA | NA | NA | |
| | | Medium ² | Red | CFM | 941 | 851 | 774 | 684 | 576 | 479 | --- | --- | |
| | | | | Heating Rise (°F) | 47 | 52 | NA | NA | NA | NA | NA | NA | |
| | | | | Heating Rise (°C) | 26 | 29 | NA | NA | NA | NA | NA | NA | |
| | | Med-High | Orange | CFM | 1009 | 917 | 840 | 759 | 667 | 577 | 447 | --- | |
| | | | | Heating Rise (°F) | 44 | 48 | 53 | NA | NA | NA | NA | NA | |
| | | | | Heating Rise (°C) | 24 | 27 | 29 | NA | NA | NA | NA | NA | |
| | | High ¹ | Black | CFM | 1241 | 1167 | 1111 | 1036 | 969 | 881 | 818 | 731 | |
| | | | | Heating Rise (°F) | 36 | 38 | 40 | 43 | 46 | 50 | 54 | NA | |
| | | | | Heating Rise (°C) | 20 | 21 | 22 | 24 | 25 | 28 | 30 | NA | |
| 30040 | 30 – 60°F (17 – 33°C) | Low | Blue | CFM | 741 | 638 | 547 | 415 | --- | --- | --- | --- | |
| | | | | Heating Rise (°F) | 41 | 47 | 55 | NA | NA | NA | NA | NA | |
| | | | | Heating Rise (°C) | 23 | 26 | 31 | NA | NA | NA | NA | NA | |
| | | Med-Low ¹ | Pink | CFM | 973 | 887 | 823 | 733 | 665 | 538 | 451 | --- | |
| | | | | Heating Rise (°F) | 31 | 34 | 37 | 41 | 45 | 56 | NA | NA | |
| | | | | Heating Rise (°C) | 17 | 19 | 20 | 23 | 25 | 31 | NA | NA | |
| | | Medium | Red | CFM | 1088 | 1023 | 954 | 881 | 800 | 723 | 658 | 563 | |
| | | | | Heating Rise (°F) | 28 | 30 | 32 | 34 | 38 | 42 | 46 | 54 | |
| | | | | Heating Rise (°C) | 15 | 16 | 18 | 19 | 21 | 23 | 26 | 30 | |
| | | Med-High ² | Orange | CFM | 1140 | 1064 | 996 | 915 | 840 | 758 | 687 | 564 | |
| | | | | Heating Rise (°F) | NA | NA | 30 | 33 | 36 | 40 | 44 | 54 | |
| | | | | Heating Rise (°C) | NA | NA | 17 | 18 | 20 | 22 | 24 | 30 | |
| | | High | Black | CFM | 1202 | 1140 | 1082 | 1015 | 961 | 881 | 810 | 732 | |
| | | | | Heating Rise (°F) | NA | NA | NA | 30 | 31 | 34 | 37 | 41 | |
| | | | | Heating Rise (°C) | NA | NA | NA | 17 | 17 | 19 | 21 | 23 | |
| 30060 | 25 – 55°F (14 – 31°C) | Low | Blue | CFM | 741 | 638 | 547 | 415 | --- | --- | --- | --- | |
| | | | | Heating Rise (°F) | NA | NA | NA | NA | NA | NA | NA | NA | |
| | | | | Heating Rise (°C) | NA | NA | NA | NA | NA | NA | NA | NA | |
| | | Med-Low | Pink | CFM | 973 | 887 | 823 | 733 | 665 | 538 | 451 | --- | |
| | | | | Heating Rise (°F) | 46 | 50 | 54 | NA | NA | NA | NA | NA | |
| | | | | Heating Rise (°C) | 25 | 28 | 30 | NA | NA | NA | NA | NA | |
| | | Medium | Red | CFM | 1088 | 1023 | 954 | 881 | 800 | 723 | 658 | 563 | |
| | | | | Heating Rise (°F) | 41 | 43 | 47 | 50 | NA | NA | NA | NA | |
| | | | | Heating Rise (°C) | 23 | 24 | 26 | 28 | NA | NA | NA | NA | |
| | | Med-High ² | Orange | CFM | 1140 | 1064 | 996 | 915 | 840 | 758 | 687 | 564 | |
| | | | | Heating Rise (°F) | 39 | 42 | 45 | 49 | 53 | NA | NA | NA | |
| | | | | Heating Rise (°C) | 22 | 23 | 25 | 27 | 29 | NA | NA | NA | |
| | | High ¹ | Black | CFM | 1202 | 1140 | 1082 | 1015 | 961 | 881 | 810 | 732 | |
| | | | | Heating Rise (°F) | 37 | 39 | 41 | 44 | 46 | 50 | 55 | NA | |
| | | | | Heating Rise (°C) | 21 | 22 | 23 | 24 | 26 | 28 | 30 | NA | |

DRY COIL AIR DELIVERY* – HORIZONTAL AND DOWNFLOW DISCHARGE

| UNIT PDD/S4 | HEATING RISE RANGE | MOTOR SPEED | WIRE COLOR | | EXTERNAL STATIC PRESSURE (in wc) | | | | | | | | |
|----------------|--------------------------|-----------------------|---------------|-------------------|----------------------------------|------|------|------|------|------|------|------|------|
| | | | | | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
| 36060 | 25 – 55°F (14 – 31°C) | Low | Blue | CFM | 1176 | 1121 | 1079 | 1019 | 974 | 920 | 877 | 826 | 754 |
| | | | | Heating Rise (°F) | 38 | 40 | 41 | 44 | 46 | 48 | 51 | 54 | NA |
| | | | | Heating Rise (°C) | 21 | 22 | 23 | 24 | 25 | 27 | 28 | 30 | NA |
| | | Med-Low ¹ | Pink | CFM | 1295 | 1234 | 1182 | 1126 | 1075 | 1016 | 955 | 898 | 857 |
| | | | | Heating Rise (°F) | 34 | 36 | 38 | 39 | 41 | 44 | 47 | 49 | 52 |
| | | | | Heating Rise (°C) | 19 | 20 | 21 | 22 | 23 | 24 | 26 | 27 | 29 |
| | | Medium ² | Red | CFM | 1345 | 1282 | 1235 | 1194 | 1140 | 1095 | 1027 | 974 | 921 |
| | | | | Heating Rise (°F) | 33 | 35 | 36 | 37 | 39 | 41 | 43 | 46 | 48 |
| | | | | Heating Rise (°C) | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 27 |
| | | Med-High | Orange | CFM | 1505 | 1452 | 1413 | 1358 | 1323 | 1282 | 1234 | 1169 | 1130 |
| | | | | Heating Rise (°F) | 30 | 31 | 31 | 33 | 34 | 35 | 36 | 38 | 39 |
| | | | | Heating Rise (°C) | 16 | 17 | 17 | 18 | 19 | 19 | 20 | 21 | 22 |
| High | Black | CFM | 1705 | 1643 | 1607 | 1568 | 1518 | 1483 | 1448 | 1404 | 1360 | | |
| | | Heating Rise (°F) | 26 | 27 | 28 | 28 | 29 | 30 | 31 | 32 | 33 | | |
| | | Heating Rise (°C) | 14 | 15 | 15 | 16 | 16 | 17 | 17 | 18 | 18 | | |
| 36090 | 35 – 65°F (19 – 36°C) | Low | Blue | CFM | 1176 | 1121 | 1079 | 1019 | 974 | 920 | 877 | 826 | 754 |
| | | | | Heating Rise (°F) | 58 | 61 | 63 | NA | NA | NA | NA | NA | NA |
| | | | | Heating Rise (°C) | 32 | 34 | 35 | NA | NA | NA | NA | NA | NA |
| | | Med-Low | Pink | CFM | 1295 | 1234 | 1182 | 1126 | 1075 | 1016 | 955 | 898 | 857 |
| | | | | Heating Rise (°F) | 53 | 55 | 58 | 60 | 63 | NA | NA | NA | NA |
| | | | | Heating Rise (°C) | 29 | 31 | 32 | 34 | 35 | NA | NA | NA | NA |
| | | Medium ² | Red | CFM | 1345 | 1282 | 1235 | 1194 | 1140 | 1095 | 1027 | 974 | 921 |
| | | | | Heating Rise (°F) | 51 | 53 | 55 | 57 | 60 | 62 | NA | NA | NA |
| | | | | Heating Rise (°C) | 28 | 29 | 31 | 32 | 33 | 35 | NA | NA | NA |
| | | Med-High ¹ | Orange | CFM | 1505 | 1452 | 1413 | 1358 | 1323 | 1282 | 1234 | 1169 | 1130 |
| | | | | Heating Rise (°F) | 45 | 47 | 48 | 50 | 51 | 53 | 55 | 58 | 60 |
| | | | | Heating Rise (°C) | 25 | 26 | 27 | 28 | 29 | 29 | 31 | 32 | 33 |
| High | Black | CFM | 1705 | 1643 | 1607 | 1568 | 1518 | 1483 | 1448 | 1404 | 1360 | | |
| | | Heating Rise (°F) | 40 | 41 | 42 | 43 | 45 | 46 | 47 | 48 | 50 | | |
| | | Heating Rise (°C) | 22 | 23 | 24 | 24 | 25 | 25 | 26 | 27 | 28 | | |
| 42060 | 25 – 55°F (14 – 31°C) | Low ¹ | Blue | CFM | 1295 | 1234 | 1182 | 1126 | 1075 | 1016 | 955 | 898 | 857 |
| | | | | Heating Rise (°F) | 34 | 36 | 38 | 39 | 41 | 44 | 47 | 49 | 52 |
| | | | | Heating Rise (°C) | 19 | 20 | 21 | 22 | 23 | 24 | 26 | 27 | 29 |
| | | Med-Low | Pink | CFM | 1345 | 1282 | 1235 | 1194 | 1140 | 1095 | 1027 | 974 | 921 |
| | | | | Heating Rise (°F) | 33 | 35 | 36 | 37 | 39 | 41 | 43 | 46 | 48 |
| | | | | Heating Rise (°C) | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 27 |
| | | Medium | Red | CFM | 1505 | 1452 | 1413 | 1358 | 1323 | 1282 | 1234 | 1169 | 1130 |
| | | | | Heating Rise (°F) | 30 | 31 | 31 | 33 | 34 | 35 | 36 | 38 | 39 |
| | | | | Heating Rise (°C) | 16 | 17 | 17 | 18 | 19 | 19 | 20 | 21 | 22 |
| | | Med-High ² | Orange | CFM | 1545 | 1492 | 1449 | 1411 | 1362 | 1313 | 1278 | 1231 | 1188 |
| | | | | Heating Rise (°F) | 29 | 30 | 31 | 31 | 33 | 34 | 35 | 36 | 37 |
| | | | | Heating Rise (°C) | 16 | 17 | 17 | 17 | 18 | 19 | 19 | 20 | 21 |
| High | Black | CFM | 1705 | 1643 | 1607 | 1568 | 1518 | 1483 | 1448 | 1404 | 1360 | | |
| | | Heating Rise (°F) | 26 | 27 | 28 | 28 | 29 | 30 | 31 | 32 | 33 | | |
| | | Heating Rise (°C) | 14 | 15 | 15 | 16 | 16 | 17 | 17 | 18 | 18 | | |
| 42090 | 35 – 65°F (19 – 36°C) | Low | Blue | CFM | 1295 | 1234 | 1182 | 1126 | 1075 | 1016 | 955 | 898 | 857 |
| | | | | Heating Rise (°F) | 53 | 55 | 58 | 60 | 63 | NA | NA | NA | NA |
| | | | | Heating Rise (°C) | 29 | 31 | 32 | 34 | 35 | NA | NA | NA | NA |
| | | Med-Low | Pink | CFM | 1345 | 1282 | 1235 | 1194 | 1140 | 1095 | 1027 | 974 | 921 |
| | | | | Heating Rise (°F) | 51 | 53 | 55 | 57 | 60 | 62 | NA | NA | NA |
| | | | | Heating Rise (°C) | 28 | 29 | 31 | 32 | 33 | 35 | NA | NA | NA |
| | | Medium ¹ | Red | CFM | 1505 | 1452 | 1413 | 1358 | 1323 | 1282 | 1234 | 1169 | 1130 |
| | | | | Heating Rise (°F) | 45 | 47 | 48 | 50 | 51 | 53 | 55 | 58 | 60 |
| | | | | Heating Rise (°C) | 25 | 26 | 27 | 28 | 29 | 29 | 31 | 32 | 33 |
| | | Med-High ² | Orange | CFM | 1545 | 1492 | 1449 | 1411 | 1362 | 1313 | 1278 | 1231 | 1188 |
| | | | | Heating Rise (°F) | 44 | 46 | 47 | 48 | 50 | 52 | 53 | 55 | 57 |
| | | | | Heating Rise (°C) | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| High | Black | CFM | 1705 | 1643 | 1607 | 1568 | 1518 | 1483 | 1448 | 1404 | 1360 | | |
| | | Heating Rise (°F) | 40 | 41 | 42 | 43 | 45 | 46 | 47 | 48 | 50 | | |
| | | Heating Rise (°C) | 22 | 23 | 24 | 24 | 25 | 25 | 26 | 27 | 28 | | |

DRY COIL AIR DELIVERY* – HORIZONTAL AND DOWNFLOW DISCHARGE

| UNIT PDD/S4 | HEATING RISE RANGE | MOTOR SPEED | WIRE COLOR | | EXTERNAL STATIC PRESSURE (in wc) | | | | | | | | |
|----------------|--------------------------|---------------------------|---------------|-------------------|----------------------------------|------|------|------|------|------|------|------|------|
| | | | | | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
| 48090 | 35 – 65°F (19 – 36°C) | Low | Blue | CFM | 1430 | 1374 | 1327 | 1267 | 1223 | 1176 | 1127 | 1061 | 1016 |
| | | | | Heating Rise (°F) | 48 | 49 | 51 | 54 | 56 | 58 | 60 | 64 | NA |
| | | | | Heating Rise (°C) | 26 | 27 | 28 | 30 | 31 | 32 | 34 | 36 | NA |
| | | Med– Low ¹ | Pink | CFM | 1445 | 1389 | 1341 | 1281 | 1236 | 1189 | 1139 | 1072 | 1027 |
| | | | | Heating Rise (°F) | 47 | 49 | 51 | 53 | 55 | 57 | 60 | 63 | NA |
| | | | | Heating Rise (°C) | 26 | 27 | 28 | 29 | 31 | 32 | 33 | 35 | NA |
| | | Medium ² | Red | CFM | 1678 | 1635 | 1602 | 1558 | 1513 | 1474 | 1438 | 1404 | 1349 |
| | | | | Heating Rise (°F) | 41 | 42 | 42 | 44 | 45 | 46 | 47 | 48 | 50 |
| | | | | Heating Rise (°C) | 23 | 23 | 24 | 24 | 25 | 26 | 26 | 27 | 28 |
| | | Med– High | Orange | CFM | 2131 | 2088 | 2065 | 2013 | 1982 | 1941 | 1888 | 1860 | 1785 |
| | | | | Heating Rise (°F) | NA | NA | NA | NA | NA | 35 | 36 | 37 | 38 |
| | | | | Heating Rise (°C) | NA | NA | NA | NA | NA | 19 | 20 | 20 | 21 |
| | | High | Black | CFM | 2461 | 2409 | 2339 | 2286 | 2192 | 2140 | 2062 | 1968 | 1874 |
| | | | | Heating Rise (°F) | NA | NA | NA | NA | NA | NA | NA | 35 | 36 |
| | | | | Heating Rise (°C) | NA | NA | NA | NA | NA | NA | NA | 19 | 20 |
| 48115 | 30 – 60°F (17 – 33°C) | Low | Blue | CFM | 1430 | 1374 | 1327 | 1267 | 1223 | 1176 | 1127 | 1061 | 1016 |
| | | | | Heating Rise (°F) | 61 | NA | NA | NA | NA | NA | NA | NA | NA |
| | | | | Heating Rise (°C) | 34 | NA | NA | NA | NA | NA | NA | NA | NA |
| | | Med– Low | Pink | CFM | 1445 | 1389 | 1341 | 1281 | 1236 | 1189 | 1139 | 1072 | 1027 |
| | | | | Heating Rise (°F) | 60 | NA | NA | NA | NA | NA | NA | NA | NA |
| | | | | Heating Rise (°C) | 33 | NA | NA | NA | NA | NA | NA | NA | NA |
| | | Medium ² | Red | CFM | 1678 | 1635 | 1602 | 1558 | 1513 | 1474 | 1438 | 1404 | 1349 |
| | | | | Heating Rise (°F) | 52 | 53 | 54 | 56 | 57 | 59 | 60 | NA | NA |
| | | | | Heating Rise (°C) | 29 | 30 | 30 | 31 | 32 | 33 | 34 | NA | NA |
| | | Med– High ¹ | Orange | CFM | 2131 | 2088 | 2065 | 2013 | 1982 | 1941 | 1888 | 1860 | 1785 |
| | | | | Heating Rise (°F) | 41 | 42 | 42 | 43 | 44 | 45 | 46 | 47 | 49 |
| | | | | Heating Rise (°C) | 23 | 23 | 23 | 24 | 24 | 25 | 26 | 26 | 27 |
| | | High | Black | CFM | 2461 | 2409 | 2339 | 2286 | 2192 | 2140 | 2062 | 1968 | 1874 |
| | | | | Heating Rise (°F) | 35 | 36 | 37 | 38 | 40 | 41 | 42 | 44 | 46 |
| | | | | Heating Rise (°C) | 20 | 20 | 21 | 21 | 22 | 23 | 23 | 25 | 26 |
| 48130 | 35 – 65°F (19 – 36°C) | Low | Blue | CFM | 1430 | 1374 | 1327 | 1267 | 1223 | 1176 | 1127 | 1061 | 1016 |
| | | | | Heating Rise (°F) | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | | | Heating Rise (°C) | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | Med– Low | Pink | CFM | 1445 | 1389 | 1341 | 1281 | 1236 | 1189 | 1139 | 1072 | 1027 |
| | | | | Heating Rise (°F) | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | | | Heating Rise (°C) | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | Medium ² | Red | CFM | 1678 | 1635 | 1602 | 1558 | 1513 | 1474 | 1438 | 1404 | 1349 |
| | | | | Heating Rise (°F) | 57 | 59 | 60 | 62 | 64 | 65 | NA | NA | NA |
| | | | | Heating Rise (°C) | 32 | 33 | 33 | 34 | 35 | 36 | NA | NA | NA |
| | | Med– High ¹ | Orange | CFM | 2131 | 2088 | 2065 | 2013 | 1982 | 1941 | 1888 | 1860 | 1785 |
| | | | | Heating Rise (°F) | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 54 |
| | | | | Heating Rise (°C) | 25 | 26 | 26 | 27 | 27 | 28 | 28 | 29 | 30 |
| | | High | Black | CFM | 2461 | 2409 | 2339 | 2286 | 2192 | 2140 | 2062 | 1968 | 1874 |
| | | | | Heating Rise (°F) | 39 | 40 | 41 | 42 | 44 | 45 | 47 | 49 | 51 |
| | | | | Heating Rise (°C) | 22 | 22 | 23 | 23 | 24 | 25 | 26 | 27 | 29 |

DRY COIL AIR DELIVERY* – HORIZONTAL AND DOWNFLOW DISCHARGE

| UNIT PDD/S4 | HEATING RISE RANGE | MOTOR SPEED | WIRE COLOR | EXTERNAL STATIC PRESSURE (in wc) | | | | | | | | | |
|----------------|--------------------------|-----------------------|---------------|----------------------------------|------|------|------|------|------|------|------|------|------|
| | | | | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | |
| 60090 | 35 – 65°F (19 – 36°C) | Low ¹ | Blue | CFM | 1445 | 1389 | 1341 | 1281 | 1236 | 1189 | 1139 | 1072 | 1027 |
| | | | | Heating Rise (°F) | 47 | 49 | 51 | 53 | 55 | 57 | 60 | 63 | NA |
| | | | | Heating Rise (°C) | 26 | 27 | 28 | 29 | 31 | 32 | 33 | 35 | NA |
| | | Med–Low | Pink | CFM | 1678 | 1635 | 1602 | 1558 | 1513 | 1474 | 1438 | 1404 | 1349 |
| | | | | Heating Rise (°F) | 41 | 42 | 42 | 44 | 45 | 46 | 47 | 48 | 50 |
| | | | | Heating Rise (°C) | 23 | 23 | 24 | 24 | 25 | 26 | 26 | 27 | 28 |
| | | Medium ² | Red | CFM | 1962 | 1915 | 1880 | 1843 | 1794 | 1753 | 1711 | 1675 | 1628 |
| | | | | Heating Rise (°F) | 35 | 36 | 36 | 37 | 38 | 39 | 40 | 41 | 42 |
| | | | | Heating Rise (°C) | 19 | 20 | 20 | 20 | 21 | 22 | 22 | 23 | 23 |
| | | Med–High | Orange | CFM | 2131 | 2088 | 2065 | 2013 | 1982 | 1941 | 1888 | 1860 | 1785 |
| | | | | Heating Rise (°F) | NA | NA | NA | NA | NA | 35 | 36 | 37 | 38 |
| | | | | Heating Rise (°C) | NA | NA | NA | NA | NA | 19 | 20 | 20 | 21 |
| High | Black | CFM | 2461 | 2409 | 2339 | 2286 | 2192 | 2140 | 2062 | 1968 | 1874 | | |
| | | Heating Rise (°F) | NA | NA | NA | NA | NA | NA | NA | 35 | 36 | | |
| | | Heating Rise (°C) | NA | NA | NA | NA | NA | NA | NA | 19 | 20 | | |
| 60115 | 30 – 60°F (17 – 33°C) | Low | Blue | CFM | 1445 | 1389 | 1341 | 1281 | 1236 | 1189 | 1139 | 1072 | 1027 |
| | | | | Heating Rise (°F) | 60 | NA | NA | NA | NA | NA | NA | NA | NA |
| | | | | Heating Rise (°C) | 33 | NA | NA | NA | NA | NA | NA | NA | NA |
| | | Med–Low | Pink | CFM | 1678 | 1635 | 1602 | 1558 | 1513 | 1474 | 1438 | 1404 | 1349 |
| | | | | Heating Rise (°F) | 52 | 53 | 54 | 56 | 57 | 59 | 60 | NA | NA |
| | | | | Heating Rise (°C) | 29 | 30 | 30 | 31 | 32 | 33 | 34 | NA | NA |
| | | Medium ² | Red | CFM | 1962 | 1915 | 1880 | 1843 | 1794 | 1753 | 1711 | 1675 | 1628 |
| | | | | Heating Rise (°F) | 44 | 45 | 46 | 47 | 48 | 50 | 51 | 52 | 53 |
| | | | | Heating Rise (°C) | 25 | 25 | 26 | 26 | 27 | 28 | 28 | 29 | 30 |
| | | Med–High ¹ | Orange | CFM | 2131 | 2088 | 2065 | 2013 | 1982 | 1941 | 1888 | 1860 | 1785 |
| | | | | Heating Rise (°F) | 41 | 42 | 42 | 43 | 44 | 45 | 46 | 47 | 49 |
| | | | | Heating Rise (°C) | 23 | 23 | 23 | 24 | 24 | 25 | 26 | 26 | 27 |
| High | Black | CFM | 2461 | 2409 | 2339 | 2286 | 2192 | 2140 | 2062 | 1968 | 1874 | | |
| | | Heating Rise (°F) | 35 | 36 | 37 | 38 | 40 | 41 | 42 | 44 | 46 | | |
| | | Heating Rise (°C) | 20 | 20 | 21 | 21 | 22 | 23 | 23 | 25 | 26 | | |
| 60130 | 35 – 65°F (19 – 36°C) | Low | Blue | CFM | 1445 | 1389 | 1341 | 1281 | 1236 | 1189 | 1139 | 1072 | 1027 |
| | | | | Heating Rise (°F) | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | | | Heating Rise (°C) | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | Med–Low | Pink | CFM | 1678 | 1635 | 1602 | 1558 | 1513 | 1474 | 1438 | 1404 | 1349 |
| | | | | Heating Rise (°F) | 57 | 59 | 60 | 62 | 64 | 65 | NA | NA | NA |
| | | | | Heating Rise (°C) | 32 | 33 | 33 | 34 | 35 | 36 | NA | NA | NA |
| | | Medium ² | Red | CFM | 1962 | 1915 | 1880 | 1843 | 1794 | 1753 | 1711 | 1675 | 1628 |
| | | | | Heating Rise (°F) | 49 | 50 | 51 | 52 | 54 | 55 | 56 | 57 | 59 |
| | | | | Heating Rise (°C) | 27 | 28 | 28 | 29 | 30 | 31 | 31 | 32 | 33 |
| | | Med–High ¹ | Orange | CFM | 2131 | 2088 | 2065 | 2013 | 1982 | 1941 | 1888 | 1860 | 1785 |
| | | | | Heating Rise (°F) | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 54 |
| | | | | Heating Rise (°C) | 25 | 26 | 26 | 27 | 27 | 28 | 28 | 29 | 30 |
| High | Black | CFM | 2461 | 2409 | 2339 | 2286 | 2192 | 2140 | 2062 | 1968 | 1874 | | |
| | | Heating Rise (°F) | 39 | 40 | 41 | 42 | 44 | 45 | 47 | 49 | 51 | | |
| | | Heating Rise (°C) | 22 | 22 | 23 | 23 | 24 | 25 | 26 | 27 | 29 | | |

* Air delivery values are without air filter and are for dry coil (See PDD/S4–A Wet Coil Pressure Drop table).

¹ Factory–shipped gas heating speed

² Factory–shipped heat pump speed

NA – Not allowed for gas heating speed

Note: Deduct field–supplied air filter pressure drop and wet coil pressure drop to obtain external static pressure available for ducting.

Shaded areas indicate speed/static combinations that are not permitted for dehumidification speed.

Note: Deduct 10% for 208 volt operation.

| DRY COIL AIR DELIVERY – DOWNFLOW DISCHARGE | | | | | | | | | | | | |
|--|----------------|---------------|------------------------------------|------|------|------|------|------|------|------|------|---|
| UNIT PDD/S4 | MOTOR SPEED | WIRE COLOR | EXTERNAL STATIC PRESSURE (IN W.C.) | | | | | | | | | |
| | | | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1 |
| 24(040,060) | High | Black | 1050 | 1000 | 950 | 900 | 850 | - | - | - | - | - |
| 30(040,060) | High | Black | 1050 | 1000 | 950 | 900 | 850 | - | - | - | - | - |
| 36(060,090) | High | Black | 1775 | 1710 | 1670 | 1630 | 1580 | 1540 | 1505 | 1460 | 1415 | - |
| 42(060,090) | High | Black | 1775 | 1710 | 1670 | 1630 | 1580 | 1540 | 1505 | 1460 | 1415 | - |
| 48(090,115,130) | High | Black | 2530 | 2445 | 2380 | 2325 | 2250 | 2155 | 2080 | 1965 | 1880 | - |
| 60(090,115,130) | High | Black | 2530 | 2445 | 2380 | 2325 | 2250 | 2155 | 2080 | 1965 | 1880 | - |

| HORIZONTAL AND DOWNFLOW FILTER PRESSURE DROP TABLE (in wc) | | | | | | | | | |
|---|-----------------|---------------------|------|------|------|------|------|------|------|
| Filter Size in. (mm) | Cooling Tons | STANDARD CFM (SCFM) | | | | | | | |
| | | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 |
| 600-1400 cfm (12x20x1+12x20x1) | 2.0, 2.5 | 0.05 | 0.07 | 0.08 | 0.09 | 0.10 | 0.11 | 0.13 | 0.14 |
| 1200-1800 cfm (16x24x1+14x24x1) | 3.0, 3.5 | - | - | - | - | - | - | 0.07 | 0.08 |
| 1500-2200 cfm (16x24x1+18x24x1) | 4.0, 5.0 | - | - | - | - | - | - | - | - |
| Filter Size in. (mm) | Cooling Tons | STANDARD CFM (SCFM) | | | | | | | |
| | | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 |
| 600-1400 cfm (12x20x1+12x20x1) | 2.0, 2.5 | 0.15 | - | - | - | - | - | - | - |
| 1200-1800 cfm (16x24x1+14x24x1) | 3.0, 3.5 | 0.09 | 0.10 | 0.11 | 0.11 | 0.12 | - | - | - |
| 1500-2200 cfm (16x24x1+18x24x1) | 4.0, 5.0 | - | 0.08 | 0.10 | 0.10 | 0.11 | 0.12 | 0.13 | 0.14 |

| HORIZONTAL AND DOWNFLOW DISCHARGE WET COIL PRESSURE DROP (in wc) | | | | | | | | | |
|---|---------------------|-------|-------|-------|-------|-------|-------|-------|------|
| UNIT PDD/S4 | STANDARD CFM (SCFM) | | | | | | | | |
| | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | |
| 24 | 0.030 | 0.037 | 0.044 | 0.053 | 0.063 | - | - | - | |
| 30 | - | - | - | 0.053 | 0.063 | 0.072 | 0.081 | 0.105 | |
| 36 | - | - | - | - | 0.045 | 0.050 | 0.060 | 0.065 | |
| 42 | - | - | - | - | 0.045 | 0.050 | 0.060 | 0.065 | |
| 48 | - | - | - | - | - | - | - | - | |
| 60 | - | - | - | - | - | - | - | - | |
| UNIT PDD/S4 | STANDARD CFM (SCFM) | | | | | | | | |
| | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 |
| 24 | - | - | - | - | - | - | - | - | |
| 30 | - | - | - | - | - | - | - | - | |
| 36 | 0.075 | 0.080 | 0.090 | 0.094 | 0.110 | - | - | - | |
| 42 | 0.075 | 0.080 | 0.090 | 0.094 | 0.110 | - | - | - | |
| 48 | - | 0.060 | 0.065 | 0.007 | 0.077 | 0.085 | 0.100 | 0.115 | |
| 60 | - | 0.060 | 0.065 | 0.007 | 0.077 | 0.085 | 0.100 | 0.115 | |

| HORIZONTAL AND DOWNFLOW ECONOMIZER WITH 1-IN. FILTER PRESSURE DROP (in wc) | | | | | | | | | |
|---|-----------------|---------------------|------|------|------|------|------|------|------|
| HORIZONTAL AND DOWN- FLOW ECONOMIZER + INCLUDED FILTERS | COOLING TONS | STANDARD CFM (SCFM) | | | | | | | |
| | | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 |
| 600-1400 cfm (12x20x1+12x20x1) | 2.0, 2.5 | 0.07 | 0.08 | 0.10 | 0.14 | 0.17 | 0.21 | 0.25 | 0.31 |
| 1200-1800 cfm (16x24x1+14x24x1) | 3.0, 3.5 | - | - | - | - | - | - | 0.10 | 0.12 |
| 1500-2200 cfm (16x24x1+18x24x1) | 4.0, 5.0 | - | - | - | - | - | - | - | - |
| HORIZONTAL AND DOWN- FLOW ECONOMIZER + INCLUDED FILTERS | COOLING TONS | STANDARD CFM (SCFM) | | | | | | | |
| | | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 |
| 600-1400 cfm (12x20x1+12x20x1) | 2.0, 2.5 | 0.35 | - | - | - | - | - | - | - |
| 1200-1800 cfm (16x24x1+14x24x1) | 3.0, 3.5 | 0.13 | 0.15 | 0.17 | 0.19 | 0.22 | - | - | - |
| 1500-2200 cfm (16x24x1+18x24x1) | 4.0, 5.0 | - | 0.10 | 0.12 | 0.13 | 0.15 | 0.17 | 0.18 | 0.20 |

NATURAL GAS ORIFICE SIZES AND MANIFOLD PRESSURE

| Nameplate Input (Btu/hr) | Orifice Size (Qty) Manifold Press (in wc) | ALTITUDE OF INSTALLATION (FT. ABOVE SEA LEVEL) U.S.A.* | | | | |
|--------------------------|--|--|------------------------------|------------------------------|-------------------------------|-------------------------------|
| | | 0 to 2000 (0–610 m) | 2001 to 3000* (611 to 914 m) | 3001 to 4000 (915 to 1219 m) | 4001 to 5000 (1220 to 1524 m) | 5001 to 6000 (1524 to 1829 m) |
| 40000 | Orifice No. (Qty) | 44 (2) | 45 (2)† | 48 (2)† | 48 (2)† | 48 (2)† |
| | Manifold Press. (in wc) | 3.2 | 3.2 | 3.8 | 3.5 | 3.2 |
| 60000 | Orifice No. (Qty) | 38 (2) | 41 (2)† | 41 (2)† | 42 (2)† | 42 (2)† |
| | Manifold Press. (in wc) | 3.6 | 3.8 | 3.4 | 3.4 | 3.2 |
| 90000 | Orifice No. (Qty) | 38 (3) | 41 (3)† | 41 (3)† | 42 (3)† | 42 (3)† |
| | Manifold Press. (in wc) | 3.6 | 3.8 | 3.4 | 3.4 | 3.2 |
| 115000 | Orifice No. (Qty) | 33 (3) | 36 (3)† | 36 (3)† | 36 (3)† | 38 (3)† |
| | Manifold Press. (in wc) | 3.8 | 3.8 | 3.6 | 3.3 | 3.6 |
| 130000 | Orifice No. (Qty) | 31 (3) | 31 (3) | 33 (3)† | 33 (3)† | 34 (3)† |
| | Manifold Press. (in wc) | 3.8 | 3.2 | 3.7 | 3.4 | 3.3 |

*In the U.S.A., the input rating for altitudes above 2000 ft (610m) must be reduced by 4% for each 1000 ft (305 m) above Sea level.
 In Canada, the input rating for altitudes from 2001 to 4500 ft (611 to 1372 m) above sea level must be derated by 10% by an authorized gas conversion station or dealer.
 For Canadian Installations from 2000 to 4500 ft, use U.S.A. column 2001 to 3000 ft.
 Note: Orifice sizes and manifold pressure settings are based on natural gas with a heating value of 1025 Btu/ft³ and a specific gravity of .6.
 † Orifices available through your distributor.

PROPANE GAS ORIFICE SIZES AND MANIFOLD PRESSURE

| Nameplate Input (Btu/hr) | Orifice Size (Qty) Manifold Press (in wc) | ALTITUDE OF INSTALLATION (FT. ABOVE SEA LEVEL) U.S.A.* | | | | |
|--------------------------|--|--|------------------------------|------------------------------|-------------------------------|-------------------------------|
| | | 0 to 2000 (0–610 m) | 2001 to 3000* (611 to 914 m) | 3001 to 4000 (915 to 1219 m) | 4001 to 5000 (1220 to 1524 m) | 5001 to 6000 (1524 to 1829 m) |
| 40000 | Orifice No. (Qty) | 55 (2) | 56 (2) | 56 (2) | 56 (2) | 56 (2) |
| | Manifold Press. (in wc) | 10.0 | 11.0 | 11.0 | 11.0 | 10.7 |
| 60000 | Orifice No. (Qty) | 53 (2) | 54 (2) | 54 (2) | 54 (2) | 54 (2) |
| | Manifold Press. (in wc) | 10.0 | 11.0 | 11.0 | 11.0 | 11.0 |
| 90000 | Orifice No. (Qty) | 53 (3) | 54 (3) | 54 (3) | 54 (3) | 54 (3) |
| | Manifold Press. (in wc) | 10.0 | 11.0 | 11.0 | 11.0 | 11.0 |
| 115000 | Orifice No. (Qty) | 51 (3) | 52 (3) | 52 (3) | 53 (3) | 53 (3) |
| | Manifold Press. (in wc) | 10.0 | 11.0 | 10.6 | 11.0 | 11.0 |
| 130000 | Orifice No. (Qty) | 49 (3) | 50 (3) | 51 (3) | 52 (3) | 52 (3) |
| | Manifold Press. (in wc) | 10.0 | 11.0 | 11.0 | 11.0 | 11.0 |

*In the U.S.A., the input rating for altitudes above 2000 ft (610m) must be reduced by 4% for each 1000 ft (305 m) above Sea level.
 In Canada, the input rating for altitudes from 2001 to 4500 ft (611 to 1372 m) above sea level must be derated by 10% by an authorized gas conversion station or dealer.
 For Canadian Installations from 2000 to 4500 ft (610–1372 m), use U.S.A. column 2001 to 3000 ft (611 to 914 m).
 †Use Kit No. NPLPCONV013A00 (0–2000 ft [0–610 m] above sea level). Use Kit No. NPLPCONV014A00 (2001–6000 ft [611–1829 m] above sea level).

HIGH ALTITUDE COMPENSATION, NATURAL GAS

| Nameplate Input (Btu/hr) | Rated Heating Input (Btu/hr), Natural Gas at Installation Altitude Above Sea Level, U.S.A.* | | | | |
|--------------------------|---|---------------------------------|---------------------------------|----------------------------------|----------------------------------|
| | 0 to 2000 ft (0–610 m) | 2001 to 3000 ft* (611 to 914 m) | 3001 to 4000 ft (915 to 1219 m) | 4001 to 5000 ft (1220 to 1524 m) | 5001 to 6000 ft (1524 to 1829 m) |
| 40000 | 38000 | 31700 | 31700 | 31700 | 31200 |
| 60000 | 53000 | 45900 | 45900 | 45800 | 45800 |
| 90000 | 79000 | 68900 | 68900 | 68600 | 68600 |
| 115000 | 103000 | 100400 | 98900 | 83000 | 83000 |
| 130000 | 116000 | 115500 | 111800 | 101300 | 100400 |

*In the U.S.A., the input rating for altitudes above 2000 ft (610m) must be reduced by 4% for each 1000 ft (305 m) above sea level.
 In Canada, the input rating for altitudes from 2001 to 4500 ft (611 to 1372 m) above sea level must be derated by 10% by an authorized gas conversion station or dealer.
 For Canadian Installations from 2000 to 4500 ft (610–1372 m), use U.S.A. column 2001 to 3000 ft (611 to 914 m).

HIGH ALTITUDE COMPENSATION, PROPANE GAS

| Nameplate Input (Btu/hr) | Rated Heating Input (Btu/hr), LP Gas at Installation Altitude Above Sea Level, U.S.A.* | | | | |
|--------------------------|--|---------------------------------|---------------------------------|----------------------------------|----------------------------------|
| | 0 to 2000 ft (0–610 m) | 2001 to 3000 ft* (611 to 914 m) | 3001 to 4000 ft (915 to 1219 m) | 4001 to 5000 ft (1220 to 1524 m) | 5001 to 6000 ft (1524 to 1829 m) |
| 40000 | 40000 | 36000 | 34400 | 32800 | 31200 |
| 60000 | 60000 | 54000 | 51600 | 49200 | 46800 |
| 90000 | 90000 | 81000 | 77400 | 73800 | 70200 |
| 115000 | 115000 | 103500 | 98900 | 94300 | 89700 |
| 130000 | 130000 | 117000 | 111800 | 106600 | 101400 |

*In the U.S.A., the input rating for altitudes above 2000 ft (610m) must be reduced by 4% for each 1000 ft (305 m) above Sea level.
 In Canada, the input rating for altitudes from 2001 to 4500 ft (611 to 1372 m) above sea level must be derated by 10% by an authorized gas conversion station or dealer.
 For Canadian Installations from 2000 to 4500 ft (610–1372 m), use U.S.A. column 2001 to 3000 ft (611 to 914 m).

| CONDENSER ENTERING AIR TEMPERATURES °F (°C) | | | | | | | | | | | | | | | | | | | | |
|---|----------------|-------------------|--------------------|------|-------------------|--------------------|------|-------------------|--------------------|------|-------------------|--------------------|------|-------------------|--------------------|------|-------------------|--------------------|------|-------|
| EVAPORATOR AIR | | | 75 (23.9) | | | 85 (29.4) | | | 95 (35) | | | 105 (40.5) | | | 115 (46.1) | | | 125 (51.7) | | |
| CFM | EWB °F (°C) | Capacity MBtuh | Total Sys KW | | Capacity MBtuh | Total Sys KW | | Capacity MBtuh | Total Sys KW | | Capacity MBtuh | Total Sys KW | | Capacity MBtuh | Total Sys KW | | Capacity MBtuh | Total Sys KW | | |
| | | | Total | Sens | | Total | Sens | | Total | Sens | | Total | Sens | | Total | Sens | | Total | Sens | Total |
| 700 | 57 (13.9) | 21.90 | 21.90 | 1.50 | 21.04 | 21.04 | 1.68 | 20.11 | 20.11 | 1.88 | 19.10 | 19.10 | 2.10 | 18.03 | 18.03 | 2.35 | 16.87 | 16.87 | 2.64 | |
| | 62 (16.7) | 22.70 | 20.36 | 1.50 | 21.63 | 19.79 | 1.68 | 20.49 | 19.17 | 1.88 | 19.30 | 18.47 | 2.10 | 18.08 | 18.08 | 2.35 | 16.90 | 16.90 | 2.64 | |
| | 63 (17.2) | 23.06 | 16.63 | 1.50 | 21.94 | 16.09 | 1.68 | 20.75 | 15.53 | 1.88 | 19.50 | 14.94 | 2.11 | 18.17 | 14.31 | 2.36 | 16.75 | 13.64 | 2.64 | |
| | 67 (19.4) | 24.96 | 17.37 | 1.50 | 23.75 | 16.83 | 1.69 | 22.46 | 16.26 | 1.89 | 21.12 | 15.67 | 2.12 | 19.68 | 15.04 | 2.37 | 18.16 | 14.37 | 2.65 | |
| | 72 (22.2) | 27.48 | 14.25 | 1.51 | 26.12 | 13.75 | 1.70 | 24.71 | 13.19 | 1.91 | 23.23 | 12.61 | 2.14 | 21.65 | 12.00 | 2.39 | 19.99 | 11.36 | 2.67 | |
| 800 | 57 (13.9) | 22.97 | 22.97 | 1.52 | 22.03 | 22.03 | 1.70 | 21.03 | 21.03 | 1.90 | 19.95 | 19.95 | 2.13 | 18.79 | 18.79 | 2.38 | 17.55 | 17.55 | 2.66 | |
| | 62 (16.7) | 23.39 | 21.91 | 1.52 | 22.27 | 21.26 | 1.70 | 21.10 | 21.08 | 1.90 | 19.98 | 19.98 | 2.13 | 18.82 | 18.82 | 2.38 | 17.58 | 17.58 | 2.66 | |
| | 63 (17.2) | 23.69 | 17.76 | 1.52 | 22.51 | 17.20 | 1.70 | 21.26 | 16.61 | 1.91 | 19.94 | 15.99 | 2.13 | 18.56 | 15.33 | 2.38 | 17.09 | 14.61 | 2.66 | |
| | 67 (19.4) | 25.63 | 18.59 | 1.52 | 24.34 | 18.02 | 1.71 | 23.00 | 17.43 | 1.92 | 21.58 | 16.80 | 2.14 | 20.09 | 16.14 | 2.39 | 18.51 | 15.43 | 2.67 | |
| | 72 (22.2) | 28.18 | 15.05 | 1.53 | 26.77 | 14.50 | 1.73 | 25.28 | 13.93 | 1.93 | 23.72 | 13.32 | 2.16 | 22.08 | 12.68 | 2.41 | 20.35 | 12.02 | 2.69 | |
| 900 | 57 (13.9) | 23.89 | 23.89 | 1.54 | 22.88 | 22.88 | 1.72 | 21.81 | 21.81 | 1.93 | 20.66 | 20.66 | 2.15 | 19.43 | 19.43 | 2.40 | 18.11 | 18.11 | 2.69 | |
| | 62 (16.7) | 24.03 | 23.26 | 1.54 | 22.92 | 22.92 | 1.72 | 21.85 | 21.85 | 1.93 | 20.69 | 20.69 | 2.15 | 19.46 | 19.46 | 2.40 | 18.14 | 18.14 | 2.69 | |
| | 63 (17.2) | 24.20 | 18.85 | 1.54 | 22.96 | 18.26 | 1.72 | 21.66 | 17.64 | 1.93 | 20.30 | 16.99 | 2.15 | 18.86 | 16.29 | 2.40 | 17.35 | 15.52 | 2.68 | |
| | 67 (19.4) | 26.16 | 19.77 | 1.54 | 24.82 | 19.18 | 1.73 | 23.42 | 18.55 | 1.94 | 21.95 | 17.89 | 2.16 | 20.41 | 17.19 | 2.41 | 18.78 | 16.43 | 2.69 | |
| | 72 (22.2) | 28.76 | 15.79 | 1.55 | 27.27 | 15.22 | 1.75 | 25.73 | 14.62 | 1.95 | 24.11 | 14.00 | 2.18 | 22.41 | 13.34 | 2.43 | 20.62 | 12.64 | 2.71 | |

*At 75°F (23.9 °C) entering dry bulb—Tennessee Valley Authority [TVA] rating conditions; all others at 80°F (26.7 °C) entering dry bulb. See Legend and Notes.

| OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C) | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----|-------------------|--------------------|-------|-------------------|--------------------|-------|-------------------|--------------------|-------|-------------------|--------------------|-------|-------------------|--------------------|-------|-------------------|--------------------|-------|-------------------|--------------------|-------|-------------------|--------------------|-------|-------|
| INDOOR AIR | | | -10 (-23.3) | | | 0 (-17.8) | | | 10 (-12.2) | | | 20 (-6.7) | | | 30 (-1.1) | | | 40 (4.4) | | | 50 (10) | | | 60 (15.6) | | |
| EDB °F (°C) | CFM | Capacity MBtuh | Total Sys KW | | Capacity MBtuh | Total Sys KW | | Capacity MBtuh | Total Sys KW | | Capacity MBtuh | Total Sys KW | | Capacity MBtuh | Total Sys KW | | Capacity MBtuh | Total Sys KW | | Capacity MBtuh | Total Sys KW | | Capacity MBtuh | Total Sys KW | | |
| | | | Total | Integ | | Total | Integ | | Total | Integ | | Total | Integ | | Total | Integ | | Total | Integ | | Total | Integ | | Total | Integ | Total |
| 65 (18.3) | 700 | 7.13 | 6.56 | 1.48 | 9.45 | 8.70 | 1.55 | 12.07 | 11.08 | 1.62 | 14.83 | 13.45 | 1.68 | 17.57 | 15.40 | 1.74 | 20.64 | 20.64 | 1.81 | 24.12 | 24.12 | 1.90 | 28.24 | 28.24 | 2.03 | |
| | 800 | 7.23 | 6.65 | 1.49 | 9.58 | 8.81 | 1.55 | 12.45 | 11.43 | 1.62 | 14.96 | 13.57 | 1.67 | 17.75 | 15.55 | 1.72 | 20.87 | 20.87 | 1.78 | 24.44 | 24.44 | 1.96 | 28.65 | 28.65 | 1.98 | |
| | 900 | 7.32 | 6.74 | 1.50 | 9.68 | 8.91 | 1.56 | 12.55 | 11.52 | 1.61 | 15.09 | 13.68 | 1.66 | 17.90 | 15.68 | 1.71 | 21.07 | 21.07 | 1.76 | 24.69 | 24.69 | 1.84 | 28.85 | 28.85 | 1.95 | |
| 70 (21.1) | 700 | 6.86 | 6.31 | 1.55 | 9.18 | 8.45 | 1.62 | 11.73 | 10.77 | 1.69 | 14.64 | 13.28 | 1.76 | 17.32 | 15.17 | 1.83 | 20.33 | 20.33 | 1.90 | 23.72 | 23.72 | 1.99 | 27.75 | 27.75 | 2.12 | |
| | 800 | 6.97 | 6.41 | 1.55 | 9.31 | 8.57 | 1.62 | 11.89 | 10.92 | 1.68 | 14.77 | 13.40 | 1.75 | 17.50 | 15.33 | 1.80 | 20.57 | 20.57 | 1.87 | 24.04 | 24.04 | 1.95 | 28.17 | 28.17 | 2.07 | |
| | 900 | 7.06 | 6.50 | 1.56 | 9.42 | 8.67 | 1.62 | 12.03 | 11.04 | 1.68 | 14.90 | 13.51 | 1.74 | 17.65 | 15.47 | 1.79 | 20.76 | 20.76 | 1.85 | 24.29 | 24.29 | 1.93 | 28.44 | 28.44 | 2.04 | |
| 75 (23.9) | 700 | 6.56 | 6.03 | 1.62 | 8.88 | 8.17 | 1.69 | 11.42 | 10.48 | 1.76 | 14.43 | 13.09 | 1.85 | 17.06 | 14.95 | 1.91 | 20.03 | 20.03 | 1.99 | 23.35 | 23.35 | 2.09 | 27.26 | 27.26 | 2.22 | |
| | 800 | 6.67 | 6.13 | 1.62 | 9.02 | 8.30 | 1.69 | 11.57 | 10.62 | 1.75 | 14.57 | 13.22 | 1.83 | 17.24 | 15.11 | 1.89 | 20.26 | 20.26 | 1.96 | 23.65 | 23.65 | 2.04 | 27.67 | 27.67 | 2.17 | |
| | 900 | 6.76 | 6.22 | 1.63 | 9.13 | 8.40 | 1.70 | 11.71 | 10.75 | 1.75 | 14.69 | 13.32 | 1.82 | 17.40 | 15.24 | 1.87 | 20.45 | 20.45 | 1.94 | 23.89 | 23.89 | 2.02 | 27.96 | 27.96 | 2.14 | |

See LEGEND following tables.

PD(D,S)430 COOLING EXTENDED PERFORMANCE TABLE

| EVAPORATOR AIR | | CONDENSER ENTERING AIR TEMPERATURES °F (°C) | | | | | | | | | | | | | | | | | |
|----------------|-----------|---|----------------|----------------|-----------|-----------------|----------------|---------|-----------------|----------------|------------|-----------------|----------------|------------|-----------------|----------------|------------|-----------------|------|
| | | 75 (23.9) | | | 85 (29.4) | | | 95 (35) | | | 105 (40.5) | | | 115 (46.1) | | | 125 (51.7) | | |
| | | CFM | EWB °F (°C) | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | |
| Total | Sens | | | Total | Sens | | Total | Sens | | Total | Sens | | Total | Sens | | | | | |
| 875 | 57 (13.9) | 27.14 | 27.14 | 1.89 | 26.11 | 26.11 | 2.10 | 25.02 | 25.02 | 2.33 | 23.84 | 23.84 | 2.59 | 22.53 | 22.53 | 2.89 | 21.09 | 21.09 | 3.23 |
| | 62 (16.7) | 28.06 | 25.60 | 1.90 | 26.77 | 24.93 | 2.10 | 25.43 | 24.20 | 2.33 | 24.02 | 23.37 | 2.59 | 22.57 | 22.57 | 2.89 | 21.13 | 21.13 | 3.23 |
| | 63 (17.2) | 28.55 | 20.86 | 1.90 | 27.21 | 20.23 | 2.10 | 25.81 | 19.58 | 2.33 | 24.31 | 18.88 | 2.59 | 22.68 | 18.13 | 2.89 | 20.91 | 17.30 | 3.23 |
| | 67 (19.4) | 30.91 | 21.79 | 1.91 | 29.46 | 21.16 | 2.12 | 27.96 | 20.50 | 2.35 | 26.35 | 19.81 | 2.61 | 24.61 | 19.06 | 2.90 | 22.72 | 18.24 | 3.24 |
| | 72 (22.2) | 34.14 | 17.72 | 1.93 | 32.54 | 17.12 | 2.14 | 30.88 | 16.51 | 2.37 | 29.10 | 15.87 | 2.63 | 27.19 | 15.17 | 2.92 | 25.11 | 14.39 | 3.25 |
| | 57 (13.9) | 28.46 | 28.46 | 1.93 | 27.34 | 27.34 | 2.14 | 26.16 | 26.16 | 2.37 | 24.89 | 24.89 | 2.63 | 23.49 | 23.49 | 2.92 | 21.96 | 21.96 | 3.26 |
| | 62 (16.7) | 28.88 | 27.57 | 1.93 | 27.56 | 26.80 | 2.14 | 26.22 | 26.22 | 2.37 | 24.94 | 24.94 | 2.63 | 23.53 | 23.53 | 2.92 | 21.99 | 21.99 | 3.26 |
| 1000 | 63 (17.2) | 29.30 | 22.31 | 1.93 | 27.88 | 21.66 | 2.14 | 26.41 | 20.97 | 2.37 | 24.85 | 20.24 | 2.63 | 23.15 | 19.45 | 2.92 | 21.31 | 18.57 | 3.26 |
| | 67 (19.4) | 31.70 | 23.35 | 1.95 | 30.18 | 22.69 | 2.15 | 28.60 | 22.00 | 2.38 | 26.91 | 21.27 | 2.64 | 25.10 | 20.49 | 2.93 | 23.14 | 19.62 | 3.27 |
| | 72 (22.2) | 35.00 | 18.77 | 1.97 | 33.30 | 18.15 | 2.18 | 31.53 | 17.52 | 2.41 | 29.69 | 16.82 | 2.66 | 27.70 | 16.07 | 2.95 | 25.53 | 15.25 | 3.28 |
| | 57 (13.9) | 29.59 | 29.59 | 1.97 | 28.40 | 28.40 | 2.17 | 27.13 | 27.13 | 2.40 | 25.78 | 25.78 | 2.66 | 24.30 | 24.30 | 2.96 | 22.67 | 22.67 | 3.30 |
| | 62 (16.7) | 29.65 | 29.65 | 1.97 | 28.45 | 28.45 | 2.17 | 27.18 | 27.18 | 2.40 | 25.83 | 25.83 | 2.66 | 24.34 | 24.34 | 2.96 | 22.71 | 22.71 | 3.30 |
| 1125 | 63 (17.2) | 29.89 | 23.70 | 1.97 | 28.41 | 23.02 | 2.17 | 26.89 | 22.31 | 2.40 | 25.26 | 21.54 | 2.66 | 23.52 | 20.70 | 2.95 | 21.64 | 19.77 | 3.29 |
| | 67 (19.4) | 32.31 | 24.86 | 1.98 | 30.72 | 24.17 | 2.19 | 29.08 | 23.46 | 2.42 | 27.34 | 22.70 | 2.67 | 25.48 | 21.86 | 2.97 | 23.46 | 20.93 | 3.30 |
| | 72 (22.2) | 35.63 | 19.78 | 2.01 | 33.88 | 19.11 | 2.21 | 32.06 | 18.43 | 2.44 | 30.14 | 17.70 | 2.70 | 28.08 | 16.92 | 2.99 | 25.85 | 16.08 | 3.31 |

*At 75°F (23.9 °C) entering dry bulb—Tennessee Valley Authority [TVA] rating conditions; all others at 80°F (26.7 °C) entering dry bulb. See Legend and Notes.

PD(D,S)430 HEATING EXTENDED PERFORMANCE TABLE -10-60°F (-23.3-15.6°C)

| INDOOR AIR | | OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C) | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|-------|--|------|----------------|-----------|-----------------|----------------|------------|-----------------|----------------|-----------|-----------------|----------------|-----------|-----------------|----------------|----------|-----------------|----------------|---------|-----------------|----------------|-----------|-----------------|------|
| | | -10 (-23.3) | | | 0 (-17.8) | | | 10 (-12.2) | | | 20 (-6.7) | | | 30 (-1.1) | | | 40 (4.4) | | | 50 (10) | | | 60 (15.6) | | |
| | | EDB °F (°C) | CFM | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | |
| Total | Integ | | | Total | Integ | | Total | Integ | | Total | Integ | | Total | Integ | | Total | Integ | | Total | Integ | | Total | Integ | | |
| 65 (18.3) | 875 | 9.56 | 8.79 | 1.94 | 12.51 | 11.51 | 2.01 | 16.03 | 14.71 | 2.09 | 19.18 | 17.39 | 2.16 | 22.61 | 19.81 | 2.23 | 26.50 | 26.50 | 2.32 | 31.02 | 31.02 | 2.44 | 36.42 | 36.42 | 2.60 |
| | 1000 | 9.74 | 8.96 | 1.96 | 12.71 | 11.70 | 2.02 | 16.27 | 14.93 | 2.09 | 19.37 | 17.57 | 2.15 | 22.86 | 20.03 | 2.22 | 26.81 | 26.81 | 2.30 | 31.42 | 31.42 | 2.41 | 36.91 | 36.91 | 2.56 |
| | 1125 | 9.89 | 9.10 | 1.98 | 12.89 | 11.86 | 2.04 | 16.43 | 15.08 | 2.10 | 19.55 | 17.73 | 2.15 | 23.07 | 20.21 | 2.21 | 27.06 | 27.06 | 2.29 | 31.72 | 31.72 | 2.39 | 37.19 | 37.19 | 2.54 |
| 70 (21.1) | 875 | 9.13 | 8.40 | 2.02 | 12.12 | 11.15 | 2.10 | 15.35 | 14.09 | 2.17 | 18.92 | 17.16 | 2.26 | 22.31 | 19.55 | 2.34 | 26.15 | 26.15 | 2.43 | 30.55 | 30.55 | 2.55 | 35.85 | 35.85 | 2.71 |
| | 1000 | 9.31 | 8.57 | 2.04 | 12.32 | 11.34 | 2.11 | 15.60 | 14.31 | 2.17 | 19.13 | 17.35 | 2.25 | 22.56 | 19.77 | 2.32 | 26.45 | 26.45 | 2.40 | 30.95 | 30.95 | 2.51 | 36.34 | 36.34 | 2.67 |
| 75 (23.9) | 1125 | 9.47 | 8.72 | 2.06 | 12.50 | 11.51 | 2.12 | 15.85 | 14.55 | 2.18 | 19.31 | 17.51 | 2.25 | 22.77 | 19.95 | 2.31 | 26.70 | 26.70 | 2.39 | 31.25 | 31.25 | 2.50 | 36.67 | 36.67 | 2.66 |
| | 875 | 8.67 | 7.98 | 2.11 | 11.69 | 10.76 | 2.19 | 14.93 | 13.70 | 2.27 | 18.68 | 16.94 | 2.37 | 22.01 | 19.29 | 2.45 | 25.79 | 25.79 | 2.54 | 30.10 | 30.10 | 2.67 | 35.28 | 35.28 | 2.83 |
| | 1000 | 8.85 | 8.14 | 2.12 | 11.90 | 10.95 | 2.20 | 15.16 | 13.92 | 2.27 | 18.88 | 17.12 | 2.36 | 22.25 | 19.50 | 2.43 | 26.09 | 26.09 | 2.51 | 30.49 | 30.49 | 2.63 | 35.76 | 35.76 | 2.78 |
| 1125 | 9.01 | 8.29 | 2.15 | 12.08 | 11.12 | 2.21 | 15.36 | 14.10 | 2.28 | 19.05 | 17.27 | 2.36 | 22.46 | 19.68 | 2.42 | 26.33 | 26.33 | 2.50 | 30.79 | 30.79 | 2.61 | 36.10 | 36.10 | 2.77 | |

See LEGEND following tables.

| CONDENSER ENTERING AIR TEMPERATURES °F (°C) | | | | | | | | | | | | | | | | | | | |
|---|-------------|----------------|-----------|--------------|----------------|-------|--------------|----------------|-------|--------------|----------------|-------|--------------|----------------|-------|--------------|----------------|-------|--------------|
| EVAPORATOR AIR | | 75 (23.9) | | | 85 (29.4) | | | 95 (35) | | | 105 (40.5) | | | 115 (46.1) | | | 125 (51.7) | | |
| | | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW |
| CFM | EWB °F (°C) | Total | Sens | Total | Sens | Total | Sens | Total | Sens | Total | Sens | Total | Sens | Total | Sens | Total | Sens | Total | Sens |
| | | 1050 | 57 (13.9) | 33.80 | 33.80 | 2.35 | 32.51 | 32.51 | 2.62 | 31.13 | 31.13 | 2.92 | 29.64 | 29.64 | 3.26 | 28.00 | 28.00 | 3.65 | 26.21 |
| 62 (16.7) | 35.12 | | 31.40 | 2.36 | 30.56 | 30.56 | 2.62 | 31.82 | 29.63 | 2.92 | 30.03 | 28.60 | 3.26 | 28.11 | 28.06 | 3.65 | 26.26 | 26.26 | 4.10 |
| 63 (17.2) | 35.63 | | 25.64 | 2.36 | 33.98 | 24.84 | 2.63 | 32.23 | 24.00 | 2.93 | 30.35 | 23.10 | 3.26 | 28.32 | 22.12 | 3.65 | 26.12 | 21.07 | 4.10 |
| 67 (19.4) | 38.56 | | 26.79 | 2.38 | 36.80 | 25.98 | 2.65 | 34.93 | 25.15 | 2.95 | 32.93 | 24.26 | 3.28 | 30.76 | 23.29 | 3.67 | 28.43 | 22.24 | 4.11 |
| 72 (22.2) | 42.38 | | 22.02 | 2.40 | 40.45 | 21.27 | 2.68 | 38.42 | 20.46 | 2.98 | 36.23 | 19.60 | 3.31 | 33.88 | 18.68 | 3.70 | 31.34 | 17.68 | 4.14 |
| 1200 | 57 (13.9) | 35.46 | 35.46 | 2.39 | 34.08 | 34.08 | 2.66 | 32.59 | 32.59 | 2.96 | 30.99 | 30.99 | 3.30 | 29.24 | 29.24 | 3.69 | 27.32 | 27.32 | 4.13 |
| | 62 (16.7) | 36.21 | 33.75 | 2.39 | 34.54 | 32.85 | 2.66 | 32.81 | 31.79 | 2.96 | 31.05 | 31.05 | 3.30 | 29.29 | 29.29 | 3.69 | 27.37 | 27.37 | 4.13 |
| | 63 (17.2) | 36.62 | 27.38 | 2.39 | 34.89 | 26.53 | 2.66 | 33.05 | 25.66 | 2.96 | 31.08 | 24.72 | 3.30 | 28.96 | 23.70 | 3.68 | 26.68 | 22.59 | 4.13 |
| | 67 (19.4) | 39.61 | 28.66 | 2.41 | 37.76 | 27.82 | 2.69 | 35.80 | 26.95 | 2.98 | 33.70 | 26.01 | 3.32 | 31.44 | 25.00 | 3.71 | 29.01 | 23.90 | 4.15 |
| | 72 (22.2) | 43.49 | 23.23 | 2.44 | 41.47 | 22.43 | 2.72 | 39.34 | 21.59 | 3.02 | 37.05 | 20.70 | 3.35 | 34.60 | 19.74 | 3.74 | 31.95 | 18.70 | 4.17 |
| 1350 | 57 (13.9) | 36.89 | 36.89 | 2.43 | 35.42 | 35.42 | 2.70 | 33.84 | 33.84 | 3.00 | 32.14 | 32.14 | 3.34 | 30.28 | 30.28 | 3.72 | 28.26 | 28.26 | 4.17 |
| | 62 (16.7) | 37.18 | 35.89 | 2.43 | 35.49 | 35.49 | 2.70 | 33.90 | 33.90 | 3.00 | 32.19 | 32.19 | 3.34 | 30.33 | 30.33 | 3.72 | 28.31 | 28.31 | 4.17 |
| | 63 (17.2) | 37.42 | 29.04 | 2.43 | 35.62 | 28.17 | 2.70 | 33.71 | 27.26 | 2.99 | 31.67 | 26.28 | 3.33 | 29.48 | 25.20 | 3.72 | 27.14 | 24.02 | 4.16 |
| | 67 (19.4) | 40.44 | 30.46 | 2.45 | 38.52 | 29.60 | 2.72 | 36.49 | 28.69 | 3.02 | 34.31 | 27.70 | 3.36 | 31.98 | 26.64 | 3.74 | 29.48 | 25.47 | 4.18 |
| | 72 (22.2) | 44.37 | 24.36 | 2.48 | 42.29 | 23.54 | 2.75 | 40.06 | 22.67 | 3.05 | 37.69 | 21.74 | 3.39 | 35.15 | 20.74 | 3.77 | 32.42 | 19.67 | 4.21 |

*At 75°F (23.9 °C) entering dry bulb—Tennessee Valley Authority [TVA] rating conditions; all others at 80°F (26.7 °C) entering dry bulb. See Legend and Notes.

| OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C) | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------|----------------|-------|--------------|----------------|-------|--------------|----------------|-------|--------------|----------------|-------|--------------|----------------|-------|--------------|----------------|-------|--------------|----------------|-------|--------------|----------------|-------|--------------|
| INDOOR AIR | | -10 (-23.3) | | | 0 (-17.8) | | | 10 (-12.2) | | | 20 (-6.7) | | | 30 (-1.1) | | | 40 (4.4) | | | 50 (10) | | | 60 (15.6) | | |
| | | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW |
| EDB °F (°C) | CFM | Total | Integ | Total | Integ | Total | Integ | Total | Integ | Total | Integ | Total | Integ | Total | Integ | Total | Integ | Total | Integ | Total | Integ | Total | Integ | | |
| | | 65 (18.3) | 1050 | 12.06 | 11.10 | 2.28 | 15.34 | 14.11 | 2.37 | 19.31 | 17.73 | 2.48 | 22.99 | 20.85 | 2.57 | 27.20 | 23.83 | 2.67 | 32.01 | 28.01 | 2.79 | 37.62 | 33.62 | 2.96 | 44.15 |
| 1200 | 12.24 | | 11.26 | 2.28 | 15.55 | 14.31 | 2.37 | 19.49 | 17.89 | 2.46 | 23.21 | 21.05 | 2.54 | 27.49 | 24.09 | 2.63 | 32.36 | 28.36 | 2.75 | 38.06 | 34.06 | 2.92 | 43.75 | 39.75 | |
| 1350 | 12.40 | | 11.41 | 2.29 | 15.73 | 14.47 | 2.37 | 19.66 | 18.05 | 2.46 | 23.40 | 21.22 | 2.53 | 27.72 | 24.29 | 2.62 | 32.62 | 28.62 | 2.73 | 38.08 | 34.08 | 2.88 | 42.98 | 38.98 | |
| 70 (21.1) | 1050 | 11.60 | 10.67 | 2.40 | 14.89 | 13.70 | 2.49 | 19.02 | 17.45 | 2.61 | 22.66 | 20.55 | 2.69 | 26.81 | 23.49 | 2.80 | 31.55 | 28.15 | 2.93 | 37.02 | 33.62 | 3.10 | 43.57 | 40.17 | |
| | 1200 | 11.79 | 10.84 | 2.40 | 15.10 | 13.89 | 2.49 | 19.22 | 17.64 | 2.59 | 22.88 | 20.75 | 2.67 | 27.09 | 23.74 | 2.76 | 31.91 | 28.51 | 2.88 | 37.47 | 34.07 | 3.05 | 43.39 | 39.99 | |
| 75 (23.9) | 1050 | 11.95 | 10.99 | 2.41 | 15.28 | 14.06 | 2.49 | 19.39 | 17.80 | 2.59 | 23.08 | 20.93 | 2.66 | 27.33 | 23.94 | 2.74 | 32.17 | 28.77 | 2.86 | 37.72 | 34.32 | 3.02 | 42.75 | 39.35 | |
| | 1200 | 11.10 | 10.21 | 2.52 | 14.41 | 13.26 | 2.62 | 18.18 | 16.69 | 2.72 | 22.35 | 20.27 | 2.83 | 26.42 | 23.15 | 2.94 | 31.08 | 27.72 | 3.07 | 36.44 | 33.14 | 3.24 | 42.87 | 39.47 | |
| | 1350 | 11.29 | 10.38 | 2.53 | 14.62 | 13.46 | 2.62 | 18.52 | 17.00 | 2.71 | 22.56 | 20.46 | 2.81 | 26.70 | 23.40 | 2.90 | 31.43 | 28.13 | 3.02 | 36.87 | 33.57 | 3.18 | 42.98 | 39.58 | |
| | 1350 | 11.45 | 10.53 | 2.54 | 14.81 | 13.62 | 2.62 | 18.95 | 17.40 | 2.71 | 22.75 | 20.64 | 2.79 | 26.93 | 23.60 | 2.88 | 31.71 | 28.41 | 2.99 | 37.19 | 33.79 | 3.17 | 42.46 | 39.06 | |

See LEGEND following tables.

PD(D,S)442 COOLING EXTENDED PERFORMANCE TABLE

| EVAPORATOR AIR | | CONDENSER ENTERING AIR TEMPERATURES °F (°C) | | | | | | | | | | | | | | | | | |
|----------------|-----------|---|-------------|----------------|-----------|--------------|----------------|---------|--------------|----------------|------------|--------------|----------------|------------|--------------|----------------|------------|--------------|--|
| | | 75 (23.9) | | | 85 (29.4) | | | 95 (35) | | | 105 (40.5) | | | 115 (46.1) | | | 125 (51.7) | | |
| | | CFM | EWB °F (°C) | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | |
| Total | Sens | | | Total | Sens | | Total | Sens | | Total | Sens | | Total | Sens | | | | | |
| 1225 | 57 (13.9) | 38.52 | 38.52 | 36.98 | 36.98 | 2.93 | 35.30 | 35.30 | 3.27 | 33.49 | 33.49 | 3.66 | 31.53 | 31.53 | 4.11 | 29.35 | 29.35 | 4.64 | |
| | 62 (16.7) | 40.25 | 36.53 | 38.38 | 35.40 | 2.95 | 36.38 | 34.18 | 3.28 | 34.25 | 32.85 | 3.67 | 31.99 | 31.37 | 4.12 | 29.51 | 29.51 | 4.64 | |
| | 63 (17.2) | 40.42 | 29.59 | 38.51 | 28.53 | 2.95 | 36.47 | 27.40 | 3.28 | 34.29 | 26.19 | 3.67 | 31.96 | 24.88 | 4.12 | 29.43 | 23.45 | 4.64 | |
| | 67 (19.4) | 43.85 | 31.00 | 41.76 | 29.93 | 2.98 | 39.56 | 28.79 | 3.32 | 37.21 | 27.56 | 3.71 | 34.68 | 26.23 | 4.17 | 31.95 | 24.78 | 4.70 | |
| | 72 (22.2) | 47.65 | 25.61 | 45.34 | 24.58 | 3.02 | 42.92 | 23.50 | 3.37 | 40.32 | 22.34 | 3.77 | 37.55 | 21.10 | 4.23 | 34.58 | 19.76 | 4.76 | |
| 1400 | 57 (13.9) | 40.25 | 40.25 | 38.58 | 38.58 | 2.99 | 36.77 | 36.77 | 3.33 | 34.83 | 34.83 | 3.72 | 32.71 | 32.71 | 4.18 | 30.39 | 30.39 | 4.71 | |
| | 62 (16.7) | 41.40 | 39.06 | 39.43 | 37.83 | 3.00 | 37.36 | 36.48 | 3.33 | 35.17 | 34.96 | 3.73 | 32.82 | 32.82 | 4.18 | 30.43 | 30.43 | 4.71 | |
| | 63 (17.2) | 41.51 | 31.29 | 39.49 | 30.16 | 3.00 | 37.35 | 28.97 | 3.33 | 35.07 | 27.69 | 3.72 | 32.62 | 26.30 | 4.17 | 29.99 | 24.80 | 4.70 | |
| | 67 (19.4) | 45.01 | 32.87 | 42.81 | 31.72 | 3.04 | 40.50 | 30.50 | 3.37 | 38.03 | 29.20 | 3.77 | 35.38 | 27.79 | 4.23 | 32.54 | 26.26 | 4.76 | |
| | 72 (22.2) | 48.85 | 26.74 | 46.43 | 25.66 | 3.08 | 43.87 | 24.51 | 3.42 | 41.16 | 23.30 | 3.83 | 38.26 | 21.99 | 4.29 | 35.16 | 20.59 | 4.82 | |
| 1575 | 57 (13.9) | 41.72 | 41.72 | 39.93 | 39.93 | 3.05 | 38.01 | 38.01 | 3.39 | 35.94 | 35.94 | 3.78 | 33.69 | 33.69 | 4.24 | 31.24 | 31.24 | 4.77 | |
| | 62 (16.7) | 42.39 | 41.37 | 40.36 | 39.99 | 3.05 | 38.18 | 38.18 | 3.39 | 36.02 | 36.02 | 3.78 | 33.74 | 33.74 | 4.24 | 31.28 | 31.28 | 4.77 | |
| | 63 (17.2) | 42.38 | 32.88 | 40.28 | 31.70 | 3.05 | 38.04 | 30.44 | 3.38 | 35.68 | 29.10 | 3.77 | 33.14 | 27.65 | 4.23 | 30.42 | 26.06 | 4.75 | |
| | 67 (19.4) | 45.94 | 34.61 | 43.65 | 33.40 | 3.09 | 41.24 | 32.12 | 3.43 | 38.67 | 30.74 | 3.83 | 35.92 | 29.27 | 4.28 | 32.99 | 27.66 | 4.81 | |
| | 72 (22.2) | 49.80 | 27.78 | 47.28 | 26.65 | 3.14 | 44.62 | 25.45 | 3.48 | 41.80 | 24.18 | 3.88 | 38.81 | 22.81 | 4.35 | 35.62 | 21.35 | 4.88 | |

*At 75°F (23.9 °C) entering dry bulb—Tennessee Valley Authority [TVA] rating conditions; all others at 80°F (26.7 °C) entering dry bulb. See Legend and Notes.

PD(D,S)442 HEATING EXTENDED PERFORMANCE TABLE -10-60°F (-23.3-15.6°C)

| INDOOR AIR | | OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C) | | | | | | | | | | | | | | | | | | | | | | | |
|------------|-------|--|-------|----------------|-----------|--------------|----------------|------------|--------------|----------------|-----------|--------------|----------------|-----------|--------------|----------------|----------|--------------|----------------|---------|--------------|----------------|-----------|--------------|------|
| | | -10 (-23.3) | | | 0 (-17.8) | | | 10 (-12.2) | | | 20 (-6.7) | | | 30 (-1.1) | | | 40 (4.4) | | | 50 (10) | | | 60 (15.6) | | |
| | | EDB °F (°C) | CFM | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | |
| Total | Integ | | | Total | Integ | | Total | Integ | | Total | Integ | | Total | Integ | | Total | Integ | | Total | Integ | | Total | Integ | | |
| 65 (18.3) | 1225 | 13.77 | 12.67 | 2.42 | 17.68 | 16.26 | 2.58 | 21.89 | 20.09 | 2.72 | 25.94 | 23.53 | 2.83 | 30.55 | 26.77 | 2.94 | 35.85 | 35.85 | 3.08 | 42.16 | 42.16 | 3.29 | 48.46 | 48.46 | 3.55 |
| | 1400 | 13.95 | 12.83 | 2.44 | 17.89 | 16.46 | 2.59 | 22.07 | 20.26 | 2.72 | 26.18 | 23.74 | 2.82 | 30.86 | 27.04 | 2.92 | 36.22 | 36.22 | 3.06 | 42.20 | 42.20 | 3.24 | 47.82 | 47.82 | 3.50 |
| | 1575 | 14.11 | 12.98 | 2.46 | 18.12 | 16.68 | 2.61 | 22.25 | 20.42 | 2.73 | 26.38 | 23.93 | 2.82 | 31.11 | 27.26 | 2.92 | 36.53 | 36.53 | 3.07 | 41.84 | 41.84 | 3.24 | 47.22 | 47.22 | 3.49 |
| 70 (21.1) | 1225 | 13.46 | 12.38 | 2.56 | 17.32 | 15.93 | 2.72 | 21.69 | 19.91 | 2.86 | 25.65 | 23.26 | 2.96 | 30.15 | 26.42 | 3.08 | 35.34 | 35.34 | 3.22 | 41.53 | 41.53 | 3.44 | 48.06 | 48.06 | 3.71 |
| | 1400 | 13.65 | 12.56 | 2.57 | 17.54 | 16.14 | 2.72 | 21.88 | 20.08 | 2.86 | 25.89 | 23.48 | 2.95 | 30.46 | 26.69 | 3.06 | 35.70 | 35.70 | 3.19 | 41.84 | 41.84 | 3.39 | 47.53 | 47.53 | 3.67 |
| 75 (23.9) | 1225 | 13.82 | 12.72 | 2.59 | 17.73 | 16.32 | 2.74 | 22.04 | 20.23 | 2.86 | 26.11 | 23.68 | 2.95 | 30.72 | 26.91 | 3.05 | 36.01 | 36.01 | 3.20 | 41.57 | 41.57 | 3.39 | 46.99 | 46.99 | 3.65 |
| | 1400 | 13.07 | 12.03 | 2.69 | 16.92 | 15.57 | 2.85 | 21.46 | 19.70 | 3.00 | 25.36 | 23.00 | 3.11 | 29.77 | 26.09 | 3.22 | 34.82 | 34.82 | 3.37 | 40.89 | 40.89 | 3.60 | 47.64 | 47.64 | 3.89 |
| | 1575 | 13.27 | 12.21 | 2.71 | 17.15 | 15.78 | 2.86 | 21.67 | 19.89 | 3.00 | 25.60 | 23.21 | 3.09 | 30.06 | 26.34 | 3.20 | 35.19 | 35.19 | 3.34 | 41.34 | 41.34 | 3.56 | 47.18 | 47.18 | 3.84 |
| | 1575 | 13.45 | 12.38 | 2.73 | 17.36 | 15.97 | 2.88 | 21.83 | 20.04 | 3.01 | 25.80 | 23.40 | 3.09 | 30.32 | 26.56 | 3.19 | 35.47 | 35.47 | 3.34 | 41.27 | 41.27 | 3.54 | 46.71 | 46.71 | 3.83 |

See LEGEND following tables.

| CONDENSER ENTERING AIR TEMPERATURES °F (°C) | | | | | | | | | | | | | | | | | | | |
|---|-------------|----------------|-----------|--------------|----------------|-------|--------------|----------------|-------|--------------|----------------|-------|--------------|----------------|-------|--------------|----------------|-------|--------------|
| EVAPORATOR AIR | | 75 (23.9) | | | 85 (29.4) | | | 95 (35) | | | 105 (40.5) | | | 115 (46.1) | | | 125 (51.7) | | |
| | | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW |
| CFM | EWB °F (°C) | Total | Sens | Total | Sens | Total | Sens | Total | Sens | Total | Sens | Total | Sens | Total | Sens | Total | Sens | Total | Sens |
| | | 1400 | 57 (13.9) | 44.75 | 44.75 | 3.06 | 42.98 | 42.98 | 3.39 | 41.06 | 41.06 | 3.77 | 39.00 | 39.00 | 4.20 | 36.79 | 36.79 | 4.67 | 34.42 |
| 62 (16.7) | 46.12 | | 41.54 | 3.07 | 43.97 | 40.35 | 3.40 | 41.69 | 39.04 | 3.78 | 39.29 | 37.55 | 4.20 | 36.86 | 36.86 | 4.67 | 34.48 | 34.48 | 5.18 |
| 63 (17.2) | 46.70 | | 33.68 | 3.07 | 44.47 | 32.60 | 3.41 | 42.08 | 31.45 | 3.78 | 39.54 | 30.23 | 4.20 | 36.87 | 28.94 | 4.67 | 34.05 | 27.58 | 5.18 |
| 67 (19.4) | 50.55 | | 35.24 | 3.10 | 48.13 | 34.15 | 3.43 | 45.54 | 32.98 | 3.81 | 42.81 | 31.75 | 4.23 | 39.93 | 30.45 | 4.70 | 36.89 | 29.07 | 5.21 |
| 72 (22.2) | 55.52 | | 28.74 | 3.13 | 52.82 | 27.67 | 3.47 | 49.97 | 26.55 | 3.84 | 46.97 | 25.36 | 4.26 | 43.81 | 24.12 | 4.73 | 40.47 | 22.80 | 5.24 |
| 1600 | 57 (13.9) | 46.77 | 46.77 | 3.13 | 44.87 | 44.87 | 3.47 | 42.79 | 42.79 | 3.85 | 40.57 | 40.57 | 4.27 | 38.20 | 38.20 | 4.74 | 35.66 | 35.66 | 5.25 |
| | 62 (16.7) | 47.44 | 44.50 | 3.14 | 45.22 | 43.17 | 3.47 | 42.89 | 42.89 | 3.85 | 40.63 | 40.63 | 4.27 | 38.26 | 38.26 | 4.74 | 35.71 | 35.71 | 5.25 |
| | 63 (17.2) | 47.85 | 35.90 | 3.14 | 45.50 | 34.77 | 3.47 | 42.99 | 33.55 | 3.85 | 40.33 | 32.27 | 4.27 | 37.54 | 30.91 | 4.73 | 34.62 | 29.45 | 5.24 |
| | 67 (19.4) | 51.78 | 37.65 | 3.17 | 49.22 | 36.50 | 3.50 | 46.50 | 35.26 | 3.88 | 43.64 | 33.97 | 4.30 | 40.64 | 32.61 | 4.76 | 37.48 | 31.13 | 5.27 |
| | 72 (22.2) | 56.83 | 30.24 | 3.20 | 53.99 | 29.12 | 3.53 | 51.00 | 27.94 | 3.91 | 47.86 | 26.71 | 4.33 | 44.56 | 25.40 | 4.80 | 41.08 | 24.03 | 5.30 |
| 1800 | 57 (13.9) | 48.51 | 48.51 | 3.20 | 46.46 | 46.46 | 3.54 | 44.24 | 44.24 | 3.92 | 41.88 | 41.88 | 4.34 | 39.36 | 39.36 | 4.81 | 36.67 | 36.67 | 5.32 |
| | 62 (16.7) | 48.63 | 48.63 | 3.20 | 46.54 | 46.54 | 3.54 | 44.31 | 44.31 | 3.92 | 41.95 | 41.95 | 4.34 | 39.42 | 39.42 | 4.81 | 36.72 | 36.72 | 5.32 |
| | 63 (17.2) | 48.76 | 38.03 | 3.20 | 46.31 | 36.85 | 3.54 | 43.69 | 35.57 | 3.91 | 40.94 | 34.21 | 4.33 | 38.07 | 32.76 | 4.80 | 35.07 | 31.19 | 5.30 |
| | 67 (19.4) | 52.73 | 39.96 | 3.23 | 50.06 | 38.75 | 3.56 | 47.24 | 37.47 | 3.94 | 44.28 | 36.10 | 4.36 | 41.18 | 34.64 | 4.83 | 37.93 | 33.06 | 5.33 |
| | 72 (22.2) | 57.85 | 31.65 | 3.26 | 54.90 | 30.49 | 3.60 | 51.79 | 29.26 | 3.97 | 48.53 | 27.98 | 4.39 | 45.11 | 26.62 | 4.86 | 41.53 | 25.19 | 5.36 |

*At 75°F (23.9 °C) entering dry bulb— Tennessee Valley Authority [TVA] rating conditions; all others at 80°F (26.7 °C) entering dry bulb. See Legend and Notes.

| OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C) | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------|----------------|-------|--------------|----------------|-------|--------------|----------------|-------|--------------|----------------|-------|--------------|----------------|-------|--------------|----------------|-------|--------------|----------------|-------|--------------|----------------|-------|--------------|
| INDOOR AIR | | -10 (-23.3) | | | 0 (-17.8) | | | 10 (-12.2) | | | 20 (-6.7) | | | 30 (-1.1) | | | 40 (4.4) | | | 50 (10) | | | 60 (15.6) | | |
| | | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW |
| EDB °F (°C) | CFM | Total | Integ | Total | Integ | Total | Integ | Total | Integ | Total | Integ | Total | Integ | Total | Integ | Total | Integ | Total | Integ | Total | Integ | Total | Integ | | |
| | | 65 (18.3) | 1400 | 15.24 | 14.02 | 3.00 | 20.15 | 18.54 | 3.09 | 25.29 | 23.21 | 3.21 | 29.94 | 27.15 | 3.32 | 35.20 | 30.84 | 3.45 | 41.16 | 41.16 | 3.62 | 48.10 | 48.10 | 3.83 | 54.59 |
| 1600 | 15.50 | | 14.26 | 3.04 | 20.44 | 18.80 | 3.12 | 25.55 | 23.45 | 3.23 | 30.25 | 27.43 | 3.33 | 35.57 | 31.17 | 3.45 | 41.64 | 41.64 | 3.63 | 47.73 | 47.73 | 3.81 | 53.60 | 53.60 | 4.04 |
| 1800 | 15.74 | | 14.48 | 3.09 | 20.70 | 19.05 | 3.16 | 25.78 | 23.66 | 3.26 | 30.52 | 27.68 | 3.35 | 35.88 | 31.43 | 3.47 | 41.86 | 41.86 | 3.63 | 47.20 | 47.20 | 3.82 | 52.65 | 52.65 | 4.03 |
| 70 (21.1) | 1400 | 14.75 | 13.57 | 3.12 | 19.66 | 18.09 | 3.22 | 25.02 | 22.96 | 3.36 | 29.60 | 26.84 | 3.47 | 34.73 | 30.43 | 3.61 | 40.57 | 40.57 | 3.79 | 47.52 | 47.52 | 4.02 | 54.22 | 54.22 | 4.26 |
| | 1600 | 15.01 | 13.81 | 3.16 | 19.94 | 18.34 | 3.25 | 25.26 | 23.19 | 3.37 | 29.91 | 27.12 | 3.48 | 35.11 | 30.76 | 3.61 | 41.02 | 41.02 | 3.78 | 47.42 | 47.42 | 3.96 | 53.38 | 53.38 | 4.23 |
| | 1800 | 15.27 | 14.04 | 3.21 | 20.24 | 18.62 | 3.29 | 25.51 | 23.41 | 3.40 | 30.18 | 27.37 | 3.50 | 35.42 | 31.04 | 3.63 | 41.43 | 41.43 | 3.80 | 46.98 | 46.98 | 3.99 | 52.55 | 52.55 | 4.22 |
| 75 (23.9) | 1400 | 14.22 | 13.08 | 3.25 | 19.13 | 17.60 | 3.36 | 24.68 | 22.65 | 3.51 | 29.23 | 26.51 | 3.64 | 34.26 | 30.02 | 3.78 | 39.96 | 39.96 | 3.96 | 46.79 | 46.79 | 4.21 | 53.79 | 53.79 | 4.46 |
| | 1600 | 14.48 | 13.32 | 3.29 | 19.44 | 17.89 | 3.39 | 24.97 | 22.92 | 3.53 | 29.54 | 26.79 | 3.64 | 34.63 | 30.34 | 3.78 | 40.40 | 40.40 | 3.95 | 47.06 | 47.06 | 4.16 | 53.09 | 53.09 | 4.42 |
| | 1800 | 14.73 | 13.55 | 3.34 | 19.71 | 18.14 | 3.43 | 25.22 | 23.15 | 3.56 | 29.82 | 27.04 | 3.66 | 34.95 | 30.62 | 3.79 | 40.82 | 40.82 | 3.98 | 46.70 | 46.70 | 4.17 | 52.35 | 52.35 | 4.42 |

See LEGEND following tables.

| CONDENSER ENTERING AIR TEMPERATURES °F (°C) | | | | | | | | | | | | | | | | | | | |
|---|-------------|----------------|-----------|--------------|----------------|-------|--------------|----------------|-------|--------------|----------------|-------|--------------|----------------|-------|--------------|----------------|-------|--------------|
| EVAPORATOR AIR | | 75 (23.9) | | | 85 (29.4) | | | 95 (35) | | | 105 (40.5) | | | 115 (46.1) | | | 125 (51.7) | | |
| | | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW |
| CFM | EWB °F (°C) | Total | Sens | Total | Sens | Total | Sens | Total | Sens | Total | Sens | Total | Sens | Total | Sens | Total | Sens | Total | Sens |
| | | 1750 | 57 (13.9) | 56.58 | 56.58 | 3.82 | 54.25 | 54.25 | 4.23 | 51.74 | 51.74 | 4.69 | 49.03 | 49.03 | 5.20 | 46.02 | 46.02 | 5.80 | 42.74 |
| 62 (16.7) | 58.15 | | 51.34 | 3.84 | 49.87 | 48.23 | 4.24 | 52.31 | 48.23 | 4.69 | 49.14 | 49.14 | 5.21 | 46.10 | 46.10 | 5.80 | 42.80 | 42.80 | 6.47 |
| 63 (17.2) | 58.96 | | 41.68 | 3.85 | 40.35 | 38.94 | 4.25 | 52.93 | 38.94 | 4.70 | 49.57 | 37.43 | 5.21 | 45.96 | 35.80 | 5.79 | 42.09 | 34.04 | 6.46 |
| 67 (19.4) | 63.58 | | 43.48 | 3.90 | 60.40 | 42.13 | 4.30 | 57.00 | 40.70 | 4.75 | 53.35 | 39.18 | 5.26 | 49.42 | 37.52 | 5.84 | 45.21 | 35.73 | 6.50 |
| 72 (22.2) | 69.81 | | 35.09 | 3.96 | 66.25 | 33.84 | 4.37 | 62.44 | 32.52 | 4.82 | 58.39 | 31.04 | 5.33 | 54.03 | 29.43 | 5.90 | 49.34 | 27.71 | 6.55 |
| 2000 | 57 (13.9) | 59.07 | 59.07 | 3.93 | 56.53 | 53.81 | 4.33 | 53.81 | 53.81 | 4.79 | 50.87 | 50.87 | 5.31 | 47.61 | 47.61 | 5.89 | 44.07 | 44.07 | 6.56 |
| | 62 (16.7) | 59.71 | 55.08 | 3.93 | 56.79 | 56.35 | 4.34 | 53.90 | 53.90 | 4.79 | 50.94 | 50.94 | 5.31 | 47.68 | 47.68 | 5.90 | 44.13 | 44.13 | 6.56 |
| | 63 (17.2) | 60.33 | 44.49 | 3.94 | 57.22 | 43.10 | 4.34 | 53.93 | 41.62 | 4.79 | 50.41 | 40.03 | 5.30 | 46.64 | 38.29 | 5.88 | 42.63 | 36.38 | 6.54 |
| | 67 (19.4) | 64.95 | 46.50 | 3.99 | 61.60 | 45.09 | 4.39 | 58.02 | 43.59 | 4.84 | 54.20 | 41.98 | 5.35 | 50.08 | 40.22 | 5.93 | 45.71 | 38.29 | 6.58 |
| | 72 (22.2) | 71.19 | 37.15 | 4.06 | 67.47 | 35.74 | 4.46 | 63.50 | 34.29 | 4.91 | 59.27 | 32.74 | 5.42 | 54.69 | 31.06 | 5.99 | 49.83 | 29.27 | 6.63 |
| 2250 | 57 (13.9) | 61.14 | 61.14 | 4.03 | 58.43 | 58.43 | 4.43 | 55.52 | 55.52 | 4.89 | 52.36 | 52.36 | 5.40 | 48.89 | 48.89 | 5.99 | 45.23 | 45.23 | 6.65 |
| | 62 (16.7) | 61.25 | 61.25 | 4.03 | 58.52 | 58.52 | 4.43 | 55.60 | 55.60 | 4.89 | 52.43 | 52.43 | 5.40 | 48.95 | 48.95 | 5.99 | 45.28 | 45.28 | 6.65 |
| | 63 (17.2) | 61.37 | 47.18 | 4.03 | 58.11 | 45.72 | 4.43 | 54.69 | 44.17 | 4.88 | 51.04 | 42.48 | 5.38 | 47.15 | 40.61 | 5.96 | 43.03 | 38.53 | 6.62 |
| | 67 (19.4) | 65.96 | 49.40 | 4.08 | 62.50 | 47.93 | 4.48 | 58.79 | 46.35 | 4.93 | 54.82 | 44.65 | 5.44 | 50.57 | 42.76 | 6.01 | 46.07 | 40.65 | 6.66 |
| | 72 (22.2) | 72.28 | 38.89 | 4.15 | 68.41 | 37.47 | 4.55 | 64.28 | 35.97 | 5.00 | 59.88 | 34.37 | 5.51 | 55.14 | 32.63 | 6.08 | 50.13 | 30.78 | 6.71 |

*At 75°F (23.9°C) entering dry bulb—Tennessee Valley Authority [TVA] rating conditions; all others at 80°F (26.7°C) entering dry bulb. See Legend and Notes.

| OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C) | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------|----------------|-------|--------------|----------------|-------|--------------|----------------|-------|--------------|----------------|-------|--------------|----------------|-------|--------------|----------------|-------|--------------|----------------|-------|--------------|----------------|-------|--------------|
| INDOOR AIR | | -10 (-23.3) | | | 0 (-17.8) | | | 10 (-12.2) | | | 20 (-6.7) | | | 30 (-1.1) | | | 40 (4.4) | | | 50 (10) | | | 60 (15.6) | | |
| | | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW | Capacity MBtuh | | Total Sys KW |
| EDB °F (°C) | CFM | Total | Integ | Total | Integ | Total | Integ | Total | Integ | Total | Integ | Total | Integ | Total | Integ | Total | Integ | Total | Integ | Total | Integ | Total | Integ | | |
| | | 65 (18.3) | 1750 | 21.10 | 19.41 | 3.70 | 26.76 | 24.62 | 3.86 | 32.87 | 30.17 | 4.02 | 39.65 | 35.96 | 4.20 | 46.23 | 40.51 | 4.36 | 53.69 | 53.69 | 4.55 | 62.45 | 62.45 | 4.80 | 72.83 |
| 2000 | 21.50 | | 19.78 | 3.75 | 27.19 | 25.02 | 3.90 | 33.42 | 30.68 | 4.05 | 40.05 | 36.32 | 4.20 | 46.75 | 40.96 | 4.35 | 54.33 | 54.33 | 4.52 | 63.26 | 63.26 | 4.75 | 73.85 | 73.85 | 5.06 |
| 2250 | 21.87 | | 20.12 | 3.81 | 27.58 | 25.37 | 3.95 | 34.54 | 31.70 | 4.11 | 40.41 | 36.65 | 4.23 | 47.21 | 41.37 | 4.36 | 54.88 | 54.88 | 4.52 | 63.92 | 63.92 | 4.74 | 74.66 | 74.66 | 5.04 |
| 70 (21.1) | 1750 | 20.30 | 18.67 | 3.85 | 26.01 | 23.93 | 4.02 | 32.15 | 29.51 | 4.19 | 39.25 | 35.59 | 4.39 | 45.69 | 40.03 | 4.56 | 52.98 | 52.98 | 4.76 | 61.58 | 61.58 | 5.02 | 71.76 | 71.76 | 5.35 |
| | 2000 | 20.71 | 19.05 | 3.90 | 26.46 | 24.34 | 4.06 | 32.62 | 29.94 | 4.22 | 39.63 | 35.94 | 4.39 | 46.19 | 40.47 | 4.55 | 53.62 | 53.62 | 4.73 | 62.37 | 62.37 | 4.96 | 72.76 | 72.76 | 5.27 |
| | 2250 | 21.08 | 19.39 | 3.96 | 26.85 | 24.71 | 4.11 | 33.01 | 30.30 | 4.25 | 40.01 | 36.29 | 4.42 | 46.63 | 40.86 | 4.56 | 54.16 | 54.16 | 4.73 | 63.03 | 63.03 | 4.95 | 73.56 | 73.56 | 5.26 |
| 75 (23.9) | 1750 | 19.43 | 17.88 | 4.01 | 25.22 | 23.21 | 4.19 | 31.39 | 28.81 | 4.38 | 38.81 | 35.20 | 4.60 | 45.13 | 39.54 | 4.78 | 52.29 | 52.29 | 4.98 | 60.72 | 60.72 | 5.24 | 70.71 | 70.71 | 5.58 |
| | 2000 | 19.85 | 18.26 | 4.06 | 25.67 | 23.62 | 4.23 | 31.88 | 29.26 | 4.40 | 39.22 | 35.57 | 4.60 | 45.64 | 39.99 | 4.76 | 52.90 | 52.90 | 4.95 | 61.50 | 61.50 | 5.18 | 71.69 | 71.69 | 5.50 |
| | 2250 | 20.22 | 18.61 | 4.12 | 26.07 | 23.98 | 4.28 | 32.31 | 29.65 | 4.44 | 39.61 | 35.92 | 4.62 | 46.08 | 40.37 | 4.77 | 53.44 | 53.44 | 4.94 | 62.15 | 62.15 | 5.16 | 72.44 | 72.44 | 5.47 |

- Bypass Factor
- Entering Dry-Bulb
- Entering Wet-Bulb
- Total Unit Power Input
- Sensible Heat Capacity (1000 Btuh)
- Total Capacity (1000 Btuh) (net)
- Relative Humidity

COOLING NOTES:

1. Ratings are net; they account for the effects of the evaporator—fan motor power and heat.
2. Direct interpolation is permissible. Do not extrapolate.
3. The following formulas may be used:

$$t_{ldb} = t_{edb} - \frac{\text{Sensible capacity (Btuh)}}{1.10 \times \text{cfm}}$$

$$t_{lwb} = \text{Wet-bulb temperature corresponding to enthalpy air leaving evaporator coil (} t_{lwb} \text{)}$$

$$h_{lwb} = h_{ewb} - \frac{\text{total capacity (Btuh)}}{4.5 \times \text{cfm}}$$

Where: h_{ewb} = Enthalpy of air entering evaporator coil

4. The SHC is based on 80°F (26.7°C) edb temperature of air entering evaporator coil. Below 80°F (26.7°C) edb, subtract (corr factor x cfm) from SHC. Above 80°F (26.7°C) edb, add (corr factor x cfm) to SHC.

5. Integrated capacity is maximum (instantaneous) capacity less the effect of frost on the outdoor coil and the heat required to defrost it.

UNIT DIMENSIONS, PDD/S424 - 30

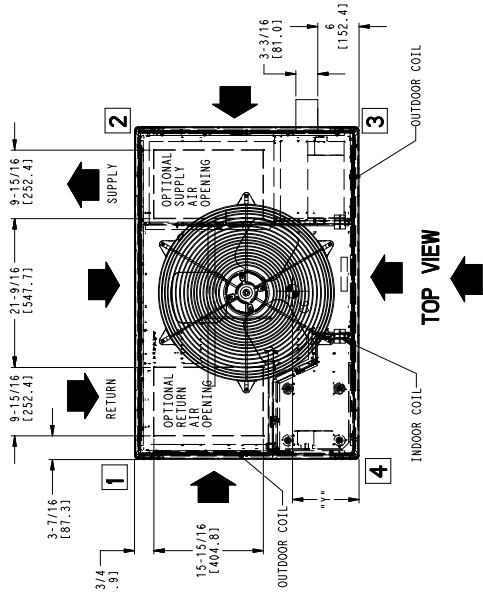
| UNIT | SERIES | ELECTRICAL CHARACTERISTICS | UNIT WT. | | UNIT HEIGHT IN/MM | | CENTER OF GRAVITY IN/MM | | | | | |
|--------------------------|--------|----------------------------|----------|-----|-------------------|------|-------------------------|-----|--------|-----|--------|-----|
| | | | LB | KG | "A" | "B" | X | Y | Z | | | |
| P.D.D. S1424(0.40, 0.60) | 1 | 208/230-1-60 | 368 | 167 | 44-1/8 | 1121 | 22-3/4 | 578 | 15-1/2 | 394 | 16-1/4 | 387 |
| P.D.D. S1430(0.40, 0.60) | 1 | 208/230-1-60 | 360 | 163 | 44-1/8 | 1121 | 22-3/4 | 578 | 15-1/2 | 394 | 16-1/4 | 387 |

| UNITS | CORNER WEIGHT, LB/KG | | |
|------------------------------------|----------------------|-----|-----|
| | "1" | "2" | "3" |
| P.D.D. S1424(0.40, 0.60) / 208/230 | 94 | 42 | 83 |
| P.D.D. S1430(0.40, 0.60) / 208/230 | 92 | 42 | 81 |

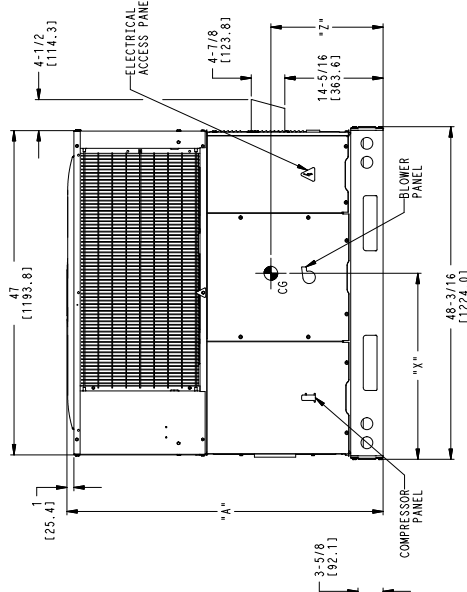
NOTE: ALL TABLE DATA RELEVANT FOR ALL FACTORY INSTALLED OPTIONS EXCEPT ECONOMIZER

- REQUIRED CLEARANCES TO COMBUSTIBLE MATL.**
- TOP OF UNIT..... 14 [355.6]
 - DUCT SIDE OF UNIT..... 2 [50.8]
 - SIDE OPPOSITE DUCTS..... 14 [355.6]
 - BOTTOM OF UNIT..... 12 [304.8]
 - FLUE PANEL..... 36 [914.4]
- NEC. REQUIRED CLEARANCES**
- BETWEEN UNITS, POWER ENTRY SIDE..... 42 [1066.8]
 - UNIT AND UNGROUNDED SURFACES, POWER ENTRY SIDE..... 36 [914.0]
 - UNIT AND BLOCK OR CONCRETE WALLS AND OTHER GROUNDED SURFACES, POWER ENTRY SIDE..... 42 [1066.8]
- REQUIRED CLEARANCE FOR OPERATION AND SERVICING**
- EVAP. COIL ACCESS SIDE..... 36 [914.0]
 - FLUE PANEL ACCESS SIDE..... 42 [1066.8]
 - (EXCEPT FOR NEC REQUIREMENTS)
 - UNIT TOP..... 48 [1219.2]
 - SIDE OPPOSITE DUCTS..... 36 [914.0]
 - DUCT PANEL..... 12 [304.8]

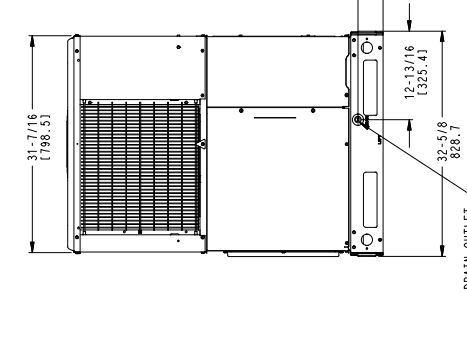
*MINIMUM DISTANCES IF UNIT IS PLACED LESS THAN 12 [304.8] FROM WALL SYSTEM, THEN SYSTEM PERFORMANCE MAYBE COMPROMISED.



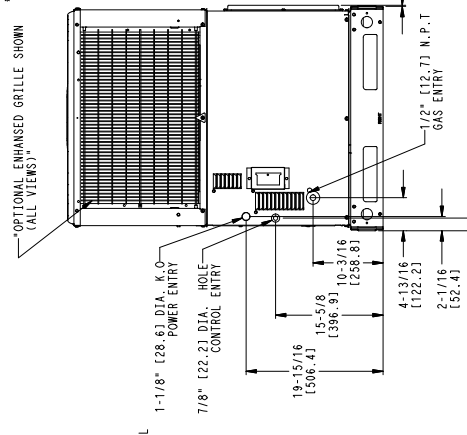
TOP VIEW



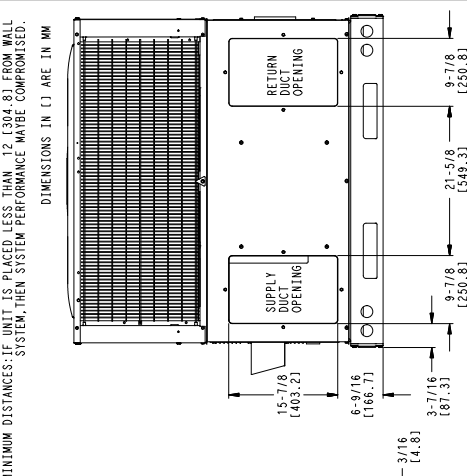
FRONT VIEW



LEFT SIDE VIEW



RIGHT SIDE VIEW



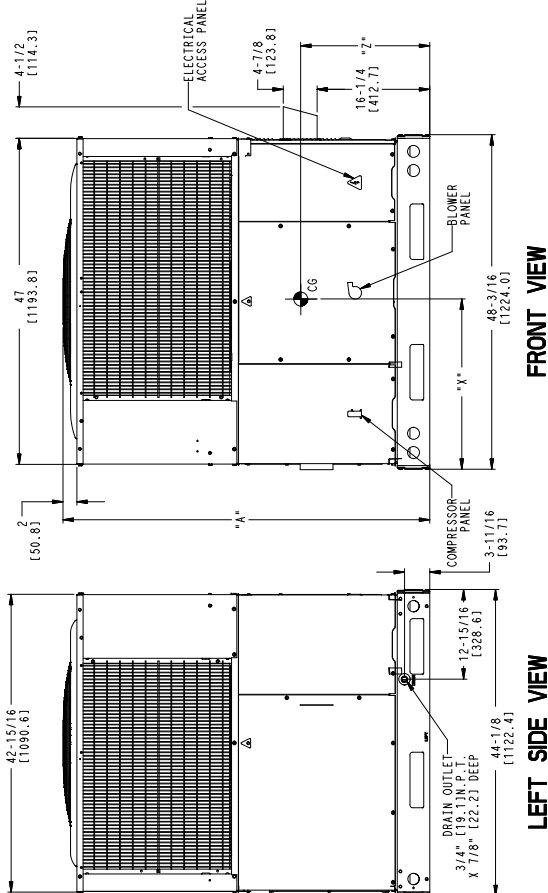
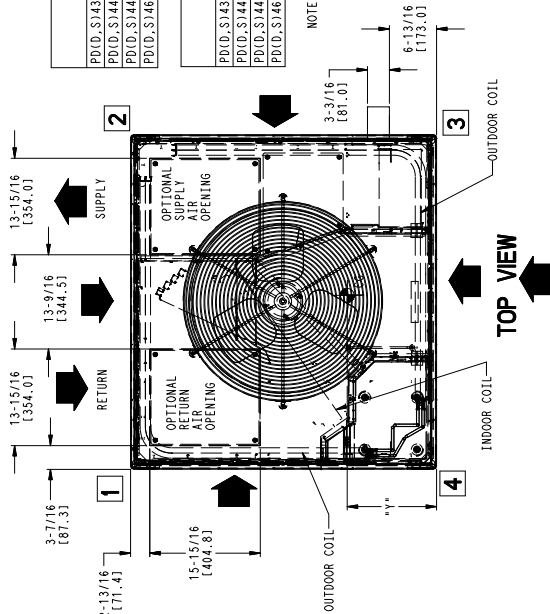
REAR VIEW

REV A
48VT500077

| UNIT | SERIES | ELECTRICAL CHARACTERISTICS | UNIT WT. | | UNIT HEIGHT IN/MM | | | | | | | |
|------------------------|--------|----------------------------|----------|-----|-------------------|------|--------|-----|----|-----|--------|-----|
| | | | LB | KG | "A" | X | Y | Z | | | | |
| PDD.S1436(060,090) | 1 | 208/230-1-60 | 440 | 200 | 44-3/4 | 1137 | 22-3/4 | 518 | 18 | 457 | 17-1/8 | 435 |
| PDD.S1442(060,090) | 1 | 208/230-1-60 | 486 | 220 | 48-3/4 | 1238 | 22-3/4 | 518 | 18 | 457 | 17-3/8 | 435 |
| PDD.S1448(090,115,130) | 1 | 208/230-1-60 | 506 | 230 | 48-3/4 | 1238 | 22-3/4 | 518 | 18 | 457 | 17-3/8 | 435 |
| PDD.S1460(090,115,130) | 1 | 208/230-1-60 | 540 | 245 | 54-3/4 | 1391 | 22-3/4 | 518 | 18 | 457 | 17-3/4 | 435 |

| UNITS | VOLTAGE | CORNER WEIGHT LB/KG | | | | | | | |
|------------------------|---------|---------------------|-----|-----|-----|-----|----|-----|----|
| | | "1" | "2" | "3" | "4" | | | | |
| PDD.S1436(060,090) | 208/230 | 96 | 43 | 85 | 38 | 122 | 55 | 138 | 62 |
| PDD.S1442(060,090) | 208/230 | 106 | 48 | 94 | 42 | 135 | 61 | 152 | 69 |
| PDD.S1448(090,115,130) | 208/230 | 110 | 50 | 88 | 44 | 140 | 64 | 158 | 72 |
| PDD.S1460(090,115,130) | 208/230 | 117 | 53 | 104 | 47 | 150 | 68 | 168 | 77 |

NOTE: ALL TABLE DATA RELEVANT FOR ALL FACTORY INSTALLED OPTIONS EXCEPT ECONOMIZER



REQUIRED CLEARANCES TO COMBUSTIBLE MATL.

| | INCHES (MM) |
|--------------------------|-------------|
| TOP OF UNIT..... | 12 (304.8) |
| DUCT SIDE OF UNIT..... | 12 (304.8) |
| DUCT OPPOSITE DUCTS..... | 14 (355.6) |
| BOTTOM OF UNIT..... | 12 (304.8) |
| FLUE PANEL..... | 36 (914.4) |

NEE. REQUIRED CLEARANCES.

| | INCHES (MM) |
|--|-------------|
| BETWEEN UNITS, POWER ENTRY SIDE..... | 42 (1066.8) |
| AN UNITS, POWER ENTRY SIDE..... | 36 (914.4) |
| UNIT AND BUC FOR CONCRETE WALLS AND OTHER GROUNDED SURFACES, POWER ENTRY SIDE..... | 42 (1066.8) |

REQUIRED CLEARANCE FOR OPERATION AND SERVICING

| | INCHES (MM) |
|-------------------------------|-------------|
| EVAP. COIL ACCESS SIDE..... | 36 (914.4) |
| POWER ENTRY SIDE..... | 42 (1066.8) |
| (EXCEPT FOR NEC REQUIREMENTS) | 48 (1219.2) |
| DUCT OPPOSITE DUCTS..... | 36 (914.4) |
| DUCT PANEL..... | 12 (304.8) |

*MINIMUM DISTANCES IF UNIT IS PLACED LESS THAN 12 (304.8) FROM WALL SYSTEM, THEN SYSTEM PERFORMANCE MAY BE COMPROMISED. DIMENSIONS IN [] ARE IN MM

REV A
48VT500078

DANGER: ELECTRICAL SHOCK HAZARD DISCONNECT POWER BEFORE SERVICING

NOTES:

- IF ANY OF THE ORIGINAL WIRES FURNISHED ARE REPLACED, THEY MUST BE REPLACED WITH THE SAME WIRE OR ITS EQUIVALENT.
- USE 75 DEG. COPPER CONDUCTORS FOR FIELD INSTALLATION.
- SEE INSTALLATION INSTRUCTIONS FOR PROPER HEATING AND COOLING CONNECTIONS FOR YOUR UNIT. INDOOR FAN MOTOR PLUGS - "DO NOT DISCONNECT UNDER LOAD"
- ON SMALL BASE MODELS LS1 AND LS2 ARE WIRED IN SERIES. LARGE BASE MODELS HAVE LS1 ONLY.
- INDUCER CAPACITOR AND WIRING ON CERTAIN MODELS ONLY. IF CAP2 IS PRESENT, YELLOW WIRES FROM IGC AND IDM CONNECT ON SAME SIDE OF CAP2.
- THIS FUSE IS MANUFACTURED BY LITTELFUSE, P/N 257003.
- THIS FUSE IS MANUFACTURED BY LITTELFUSE, P/N 257005.

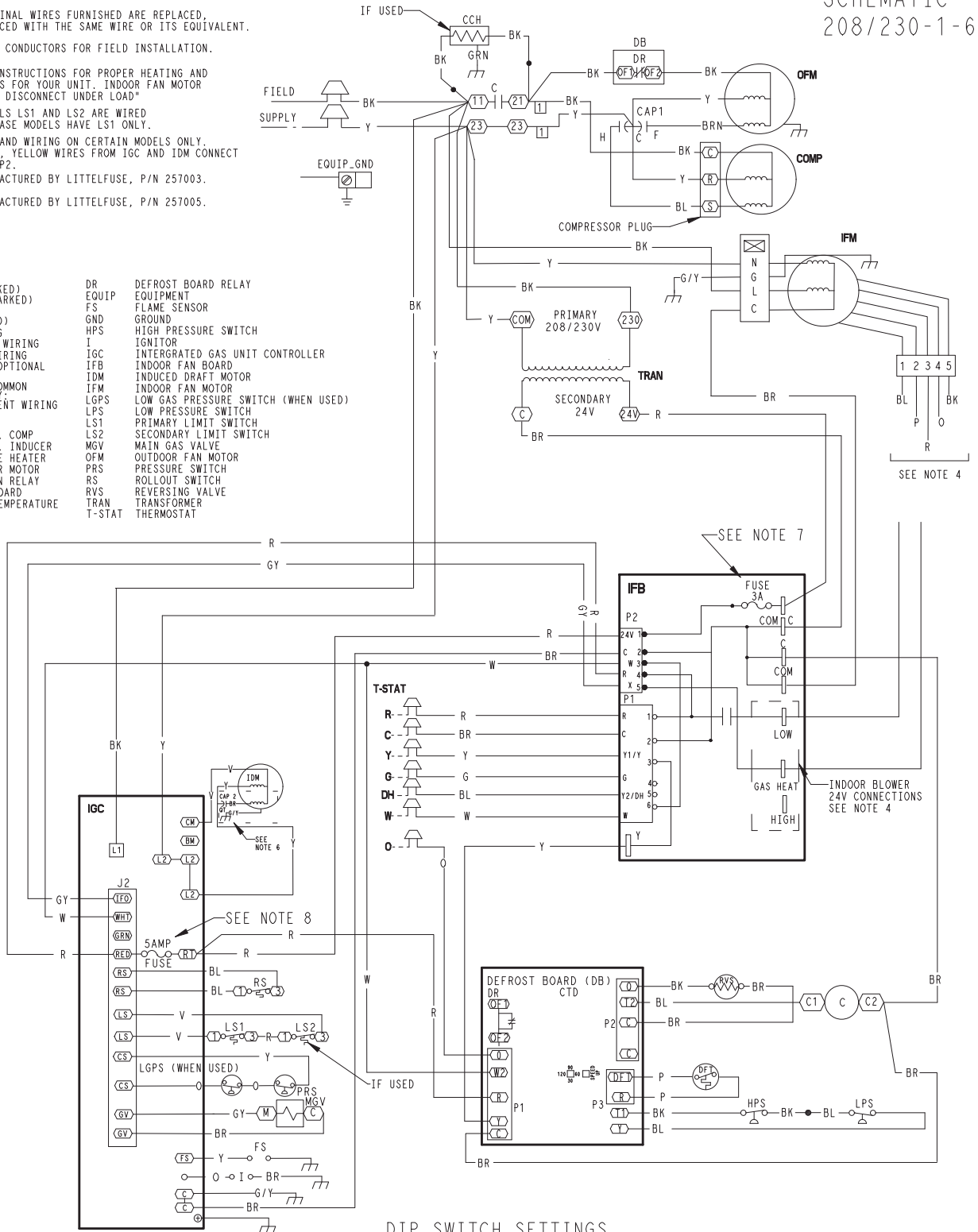
SCHMATIC
208/230-1-60

LEGEND

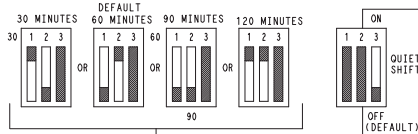
- | | | | |
|------------------------|------------------------------|--------|-------------------------------------|
| △ | FIELD SPLICE | DR | DEFROST BOARD RELAY |
| ○ | TERMINAL (MARKED) | EQUIP | EQUIPMENT |
| ○ | TERMINAL (UNMARKED) | FS | FLAME SENSOR |
| ● | SPLICE | GND | GROUND |
| ○ | SPLICE (MARKED) | HPS | HIGH PRESSURE SWITCH |
| --- | FACTORY WIRING | I | IGNITOR |
| --- | FIELD WIRING | IGC | INTERGRATED GAS UNIT CONTROLLER |
| --- | FIELD POWER WIRING | IFB | INDOOR FAN BOARD |
| --- | ACCESSORY OR OPTIONAL WIRING | IDM | INDUCED DRAFT MOTOR |
| --- | TO INDICATE COMMON | IFM | INDOOR FAN MOTOR |
| P2 IN PARENTHESIS ONLY | NOT TO REPRESENT WIRING | LGPS | LOW GAS PRESSURE SWITCH (WHEN USED) |
| C | CONTACTOR | LPS | LOW PRESSURE SWITCH |
| CAP 1 | CAPACITOR, COMP | LS1 | PRIMARY LIMIT SWITCH |
| CAP 2 | CAPACITOR, INDUCER | LS2 | SECONDARY LIMIT SWITCH |
| CCH | CRANK CASE HEATER | MGV | MAIN GAS VALVE |
| COMP | COMPRESSOR MOTOR | OFM | OUTDOOR FAN MOTOR |
| CR | COMBUSTION RELAY | PRS | PRESSURE SWITCH |
| DB | DEFROST BOARD | RS | ROLLOUT SWITCH |
| DFT | DEFROST TEMPERATURE SWITCH | RVS | REVERSING VALVE |
| | | TRAN | TRANSFORMER |
| | | T-STAT | THERMOSTAT |

COLOR CODE

- | | |
|----|--------|
| BK | BLACK |
| BL | BLUE |
| BR | BROWN |
| GY | GRAY |
| G | GREEN |
| O | ORANGE |
| P | PINK |
| R | RED |
| V | VIOLET |
| W | WHITE |
| Y | YELLOW |



DIP SWITCH SETTINGS



FIELD SELECTABLE OPTIONS FOR TIME PERIOD BETWEEN DEFROST CYCLES (MINUTES) THE COMPRESSOR WILL SHUT OFF FOR 30 SEC. ON DEFROST INITIATION AND TERMINATION IN THE "QUIET SHIFT" ON POSITION

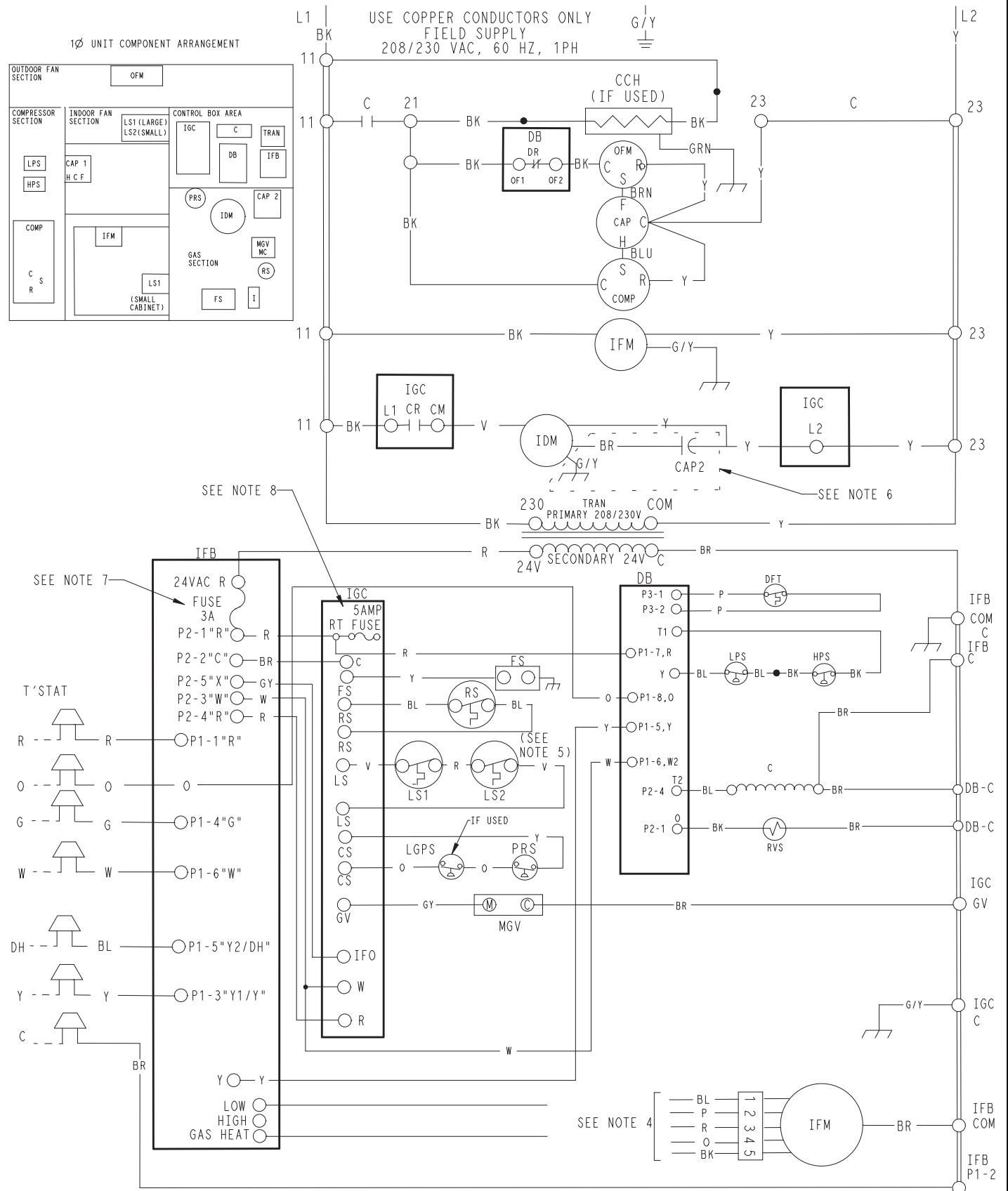
SPEED UP JUMPERED TEST PINS (USE METAL OBJECT) FIELD SPEED-UP CYCLE

- MOMENTARILY SHORT PINS AND RELEASE TO BYPASS COMPRESSOR OFF DELAY.
- SHORT FOR 5+ SEC. AND RELEASE FOR FORCED DEFROST.
- PERMANENT SHORT WILL BE IGNORED.

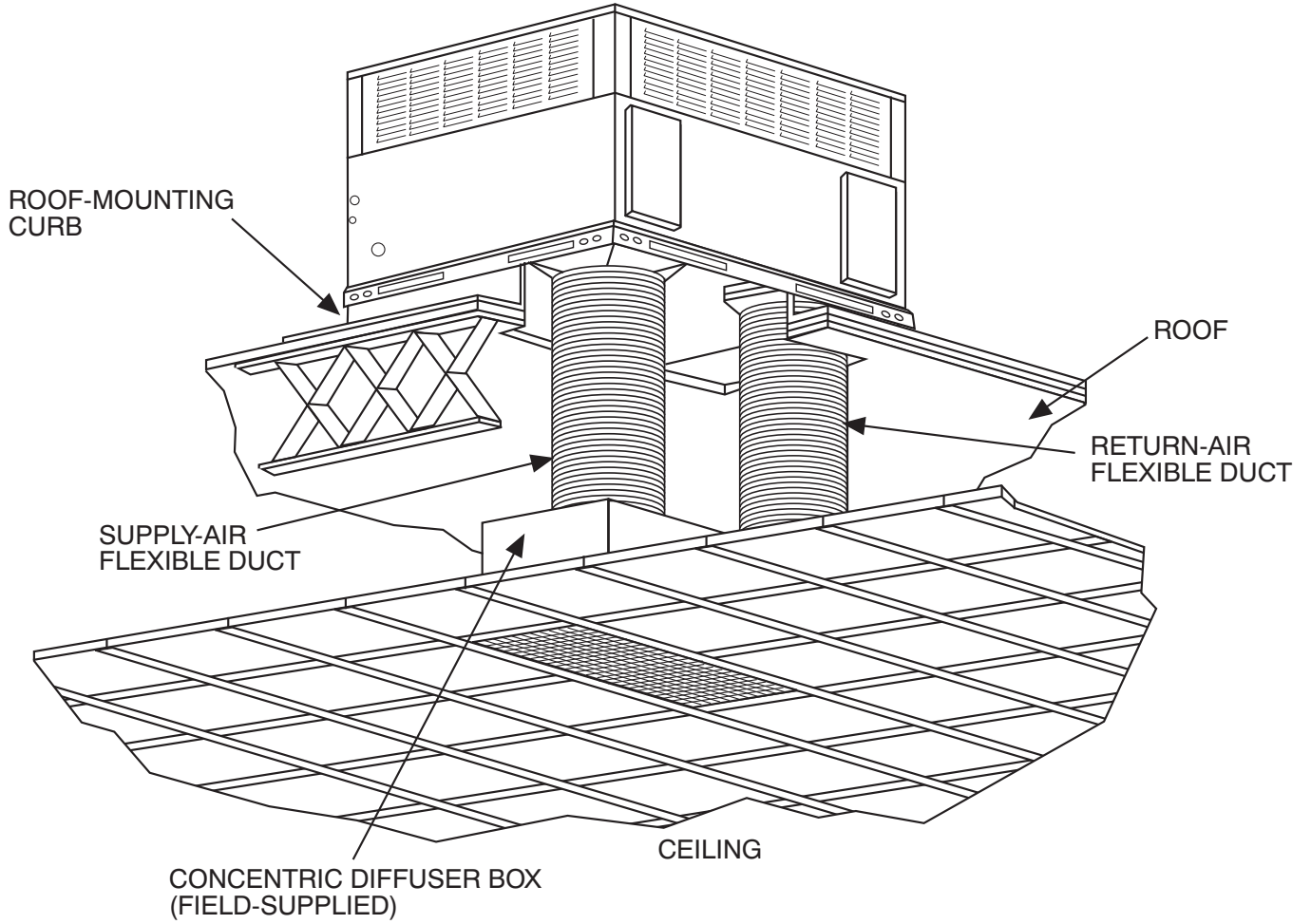
DEFROST WILL TERMINATE IN 30 SEC. IF DFT OPEN. DEFROST WILL TERMINATE NORMALLY IF DFT IS CLOSED.

LADDER WIRING DIAGRAM, 208/230-1-60

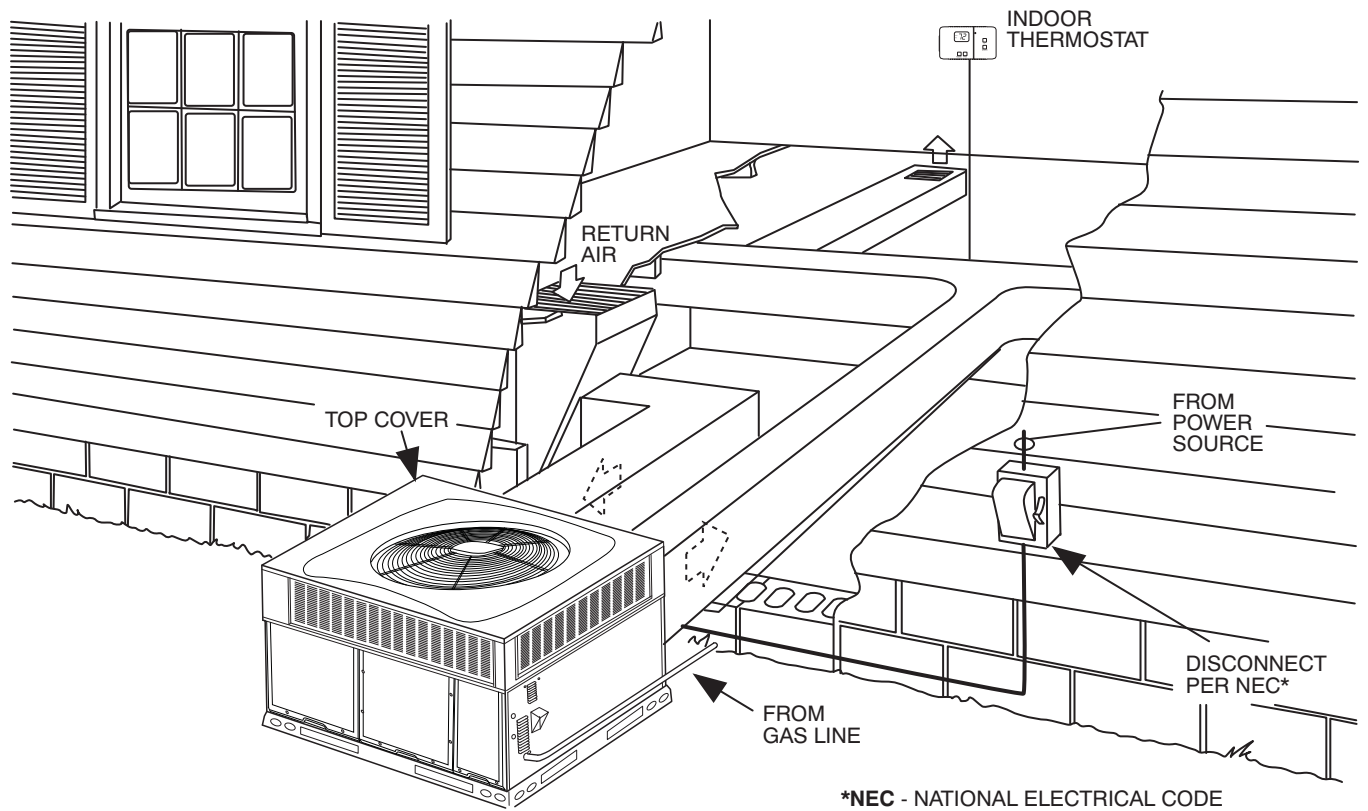
DANGER: ELECTRICAL SHOCK HAZARD DISCONNECT POWER BEFORE SERVICING



TYPICAL PIPING AND WIRING



A09226

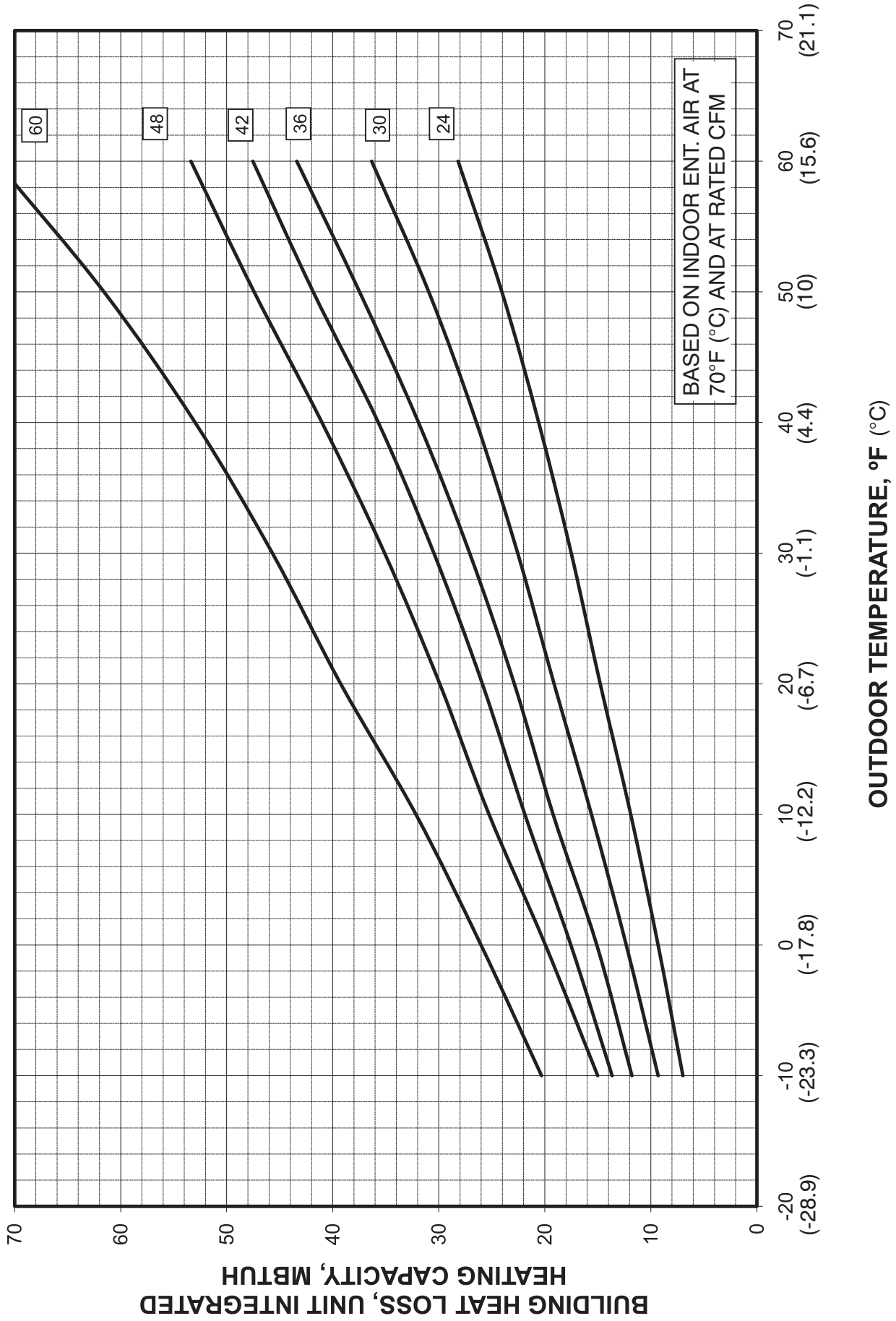


*NEC - NATIONAL ELECTRICAL CODE

A09234

BALANCE POINT WORKSHEET

BALANCE POINT WORKSHEET



SELECTION PROCEDURE (WITH EXAMPLE)

1. Determine cooling and heating requirements at design conditions:

Given:

Required Cooling Capacity (TC) 34,500 Btuh
Sensible Heat Capacity (SHC) 26,000 Btuh
Required Heating Capacity 60,000 Btuh
Condenser Entering Air Temperature . . . 95°F (35°C)
Indoor–Air Temperature 80°F (27°C) edb 67°F (19°C) ewb
Evaporator Air Quantity 1200 CFM
External Static Pressure 0.200 IN. W.C.
Electrical Characteristics 208–1–60

2. Select unit based on required cooling capacity.

Enter Net Cooling Capacities table at condenser entering temperature of 95°F (35°C). Unit 036 at 1200 CFM and 67°F (19°C) ewb (entering wet bulb) will provide a total capacity of 35,800 Btuh and a SHC of 26,950 Btuh. Calculate SHC correction, if required, using Note 4 under Cooling Capacities tables.

3. Select heating capacity of unit to provide design condition requirement.

In the Heating Capacities and Efficiencies table, note that the unit 36090 will provide 73,000 Btuh with an input of 90,000 Btuh.

4. Determine fan speed and power requirements at design conditions.

Before entering the air delivery tables, calculate the total static pressure required. From the given example, the Wet Coil Pressure Drop Table, and the Filter Pressure Drop Table:

| | |
|--------------------------|-----------------------|
| External Static Pressure | 0.200 IN. W.C. |
| Filter | 0.130 IN. W.C. |
| Wet Coil Pressure Drop | <u>0.180 IN. W.C.</u> |
| Total Static Pressure | 0.510 IN. W.C. |

Enter the table for Dry Coil Air Delivery—horizontal and downflow Discharge. At 0.5 ESP (external static pressure), in cooling the fan will deliver 1140 cfm with the MED–LOW speed tap selected. To achieve 1200 CFM a higher speed tap is required.

5. Select unit that corresponds to power source available.

The Electrical Data Table shows that the unit is designed to operate at 208–1–60.

APPLICATION DATA

Condensate trap — A 2-in. (51 mm) condensate trap must be field supplied.

Ductwork — Secure downflow discharge ductwork to roof curb. For horizontal discharge applications, attach ductwork to unit with flanges.

To convert a unit to downflow discharge — Units are equipped with factory–installed inserts in the down–flow openings. Removal of the inserts is similar to removing an electrical knock–out. The unit is factory equipped with duct covers to seal the horizontal discharge openings in the unit. Units installed in horizontal discharge orientation do not require duct covers.

Maximum cooling airflow — To minimize the possibility of condensate blow–off from the evaporator, airflow through the units should not exceed 450 cfm per ton.

Minimum cooling airflow — Minimum cooling airflow is 350 cfm per ton in cooling mode. Airflow can be lower in certain modes when humidity removal is an issue.

Minimum ambient cooling operation temperature — All standard units have a minimum ambient cooling operating temperature of 40°F (4.4°C). With accessory low ambient temperature kit, units can operate at temperatures down to 0°F (–17.8°C).

Maximum operating outdoor air temperature for cooling is 125°F (51.7°C).

CONTROLS

Operating sequence

When power is supplied to unit, the transformer (TRAN) is energized.

On units with crankcase heater, heater is also energized.

Cooling — With the thermostat subbase in the cooling position, the thermostat makes circuit “R” to “O”. This energizes the reversing valve solenoid (RVS) and places the unit in standby condition for cooling.

As the space temperature rises, the thermostat closes circuit “R” to “Y1/Y”. A circuit is made to contactor (C), starting the compressor (COMP) and outdoor-fan motor (OFM). Circuit “R” to “G” is made at the same time and starts the indoor-fan motor (IFM).

On the loss of the thermostat call for cooling, 24 V is removed from both the “Y1/Y” and “G” terminals (provided the fan switch is in the “AUTO” position) de-energizing the compressor contactor and opening the contacts supplying power to compressor/OFM. After a 90-second delay, the IFM shuts off. If the thermostat fan selector switch is in the “ON” position, the IFM will run continuously.

Heating – On a call for heating, terminal “W” of the thermostat is energized, starting the induced-draft motor. When the pressure switch senses that the induced-draft motor is moving sufficient combustion air, the burner sequence begins. This function is performed by the integrated gas unit controller (IGC). The indoor (evaporator)-fan motor is energized 45 sec after flame is established. When the thermostat is satisfied and “W” is de-energized, the burners stop firing and the indoor (evaporator) fan motor shuts off after a 45-sec time-off delay. Please note that the IGC has the capability to automatically reduce the indoor fan motor on delay and increase the indoor fan motor off delay in the event of high duct static and/or partially-clogged filter.

Heat Pump Heating — On a call for heat, thermostat makes circuits “R” to “Y1/Y” and “R” to “G”.

A circuit is made to C, starting COMP and OFM. Circuit “R” to “G” is also completed, starting IFM.

Defrost — Defrost board (DB) is a time and temperature control, which includes a field-selectable time period (dip switch 1 and 2 on the board) between checks for defrost (30, 60, 90, or 120 minutes). Electronic timer and defrost cycle start only when contactor is energized and defrost thermostat (DFT) is closed.

The defrost board is also equipped with a third dip switch for selecting Quiet Shift operation. The Quiet Shift operation turns compressor off at defrost initiation and termination. Unit is factory shipped with quiet shift turned off.

Defrost mode is identical to cooling mode, except outdoor fan motor stops and gas heat turns on to warm air supplying the conditioned space. After defrost cycle, gas heat stays on to meet the demand cycle.

NOTE:

1. Compressor time delay occurs through the defrost control board.
2. Defrost control board has built in 5 minute compressor delay; once the compressor has started and then stopped, it cannot be restarted again until 5 minutes have elapsed.

GUIDE SPECIFICATIONS

Packaged Dual Fuel Units

HVAC Guide Specifications

Size Range: **2 to 5 Tons, Nominal Cooling
40,000 to 130,000 Btuh,
Nominal Heating Input**

Model Number: **PDD4 / PDS4**

Part 1—General

SYSTEM DESCRIPTION

Outdoor, packaged, air-to-air heat pump unit utilizing a hermetic scroll compressor for cooling duty and optional electric heating. Unit shall discharge supply air vertically or horizontally as shown on contract drawings. Outdoor fan/coil section shall have a draw-thru design with vertical discharge for minimum sound levels.

QUALITY ASSURANCE

- A. Unit shall be rated in accordance with AHRI Standards 210/240 and 270.**
- B. Unit shall be designed in accordance with UL Standard 1995 and ANSI Z21.47.**
- C. Unit shall be manufactured in a facility registered to ISO 9001 manufacturing quality standard.**
- D. Unit shall be UL listed and c-UL certified as a total package for safety requirements.**
- E. Roof curb shall be designed to conform to NRCA Standards.**
- F. Insulation and adhesives shall meet NFPA 90A requirements for flame spread and smoke generation.**
- G. Cabinet insulation shall meet ASHRAE Standard 62P.**

DELIVERY, STORAGE AND HANDLING

Unit shall be stored and handled per manufacturer's recommendations.

Part 2 — Products

EQUIPMENT

A. General:

Factory-assembled, single-piece, heat pump unit. Contained within the enclosure shall be all factory wiring, piping, controls, refrigerant charge (R-410A), and special features required prior to field start-up.

B. Unit Cabinet:

- 1. Unit cabinet shall be constructed of phosphated, zinc-coated, pre-painted steel capable of withstanding 500 hours of salt spray.
- 2. Normal service shall be through three removable cabinet panels.
- 3. The unit shall be constructed on a rust proof unit base that has an externally trapped, integrated sloped drain.
- 4. Indoor fan compartment top surface shall be insulated with a minimum 1/2-in. (13 mm) thick, flexible fiberglass insulation, coated on the air side and retained by adhesive and mechanical means. The indoor wall sections will be insulated with a minimum semi-rigid, foil-faced board capable of being wiped clean. Aluminum foil-faced fiberglass insulation shall be used in the entire indoor air cavity section.
- 5. Unit shall have a field-supplied condensate trap.
- 6. Metal Insulated Duct Covers for side discharge will be standard on all sizes.
- 7. Unit insulation conforms to ASHRAE 62P.

C. Fans:

- 1. The evaporator fan motor shall be a ECM Motor.
- 2. Fan wheel shall be made from steel, be double-inlet type with forward curved blades with corrosion resistant finish. Fan wheel shall be dynamically balanced.
- 3. Condenser fan shall be direct drive propeller type with aluminum blades riveted to corrosion resistant steel spiders, be dynamically balanced, and discharge air vertically.

D. Compressor:

- 1. Fully hermetic compressors with factory-installed vibration isolation.
- 2. Scroll compressors shall be standard on all units.
- 3. Compressor Protection:
Defrost control shall protect compressor by preventing "short cycling."

E. Coils:

Indoor and outdoor coils shall have aluminum plate fins mechanically bonded to seamless copper tubes with all joints brazed. (Copper/copper and vinyl-coated construction available as option.) Tube sheet openings shall be belled to prevent tube wear.

F. Refrigerant Metering Device:

Refrigerant metering device shall be thermostatic expansion valve for cooling, and fixed orifice for heating.

G. Filters:

Filter section shall consist of field-installed, throwaway, 1-in. (25 mm)- thick fiberglass filters of commercially available sizes.

H. Controls and Safeties:

- 1. Unit controls shall be complete with a self-contained, low-voltage control circuit.
- 2. Units shall incorporate an internal compressor protector that provides reset capability.

I. Operating Characteristics:

- 1. Unit shall be capable of starting and running at 125°F (51.7°C) ambient outdoor temperature.
- 2. Compressor with standard controls shall be capable of operation down to 40°F (4.4°C) ambient outdoor temperature in cooling mode.
- 3. Unit shall be provided with 90-second fan time delay after the thermostat is satisfied.

J. Electrical Requirements:

All unit power wiring shall enter the unit cabinet at a single location.

K. Motors:

- 1. Compressor motors shall be of the refrigerant-cooled type with line-break thermal and current overload protection.
- 2. All fan motors shall have permanently lubricated bearings, and inherent, automatic reset, thermal overload protection.
- 3. Condenser fan motor shall be totally enclosed.
- 4. Evaporator Fan Motor to be ECM Motor.

GUIDE SPECIFICATIONS (CONT)

L. Compressor Protection:

Solid-state control shall protect compressor by preventing "short cycling."

M. Low NOx:

Shall provide NOx reduction to values below 40 nanograms/joule to meet California's and other localities' emission requirements as shipped from factory.

N. Special Features Available:

1. Coil Options

Tin plated indoor coil hairpins available.

2. Compressor Start Kit

Shall provide additional starting torque for single-phase compressors.

3. Thermostat:

To provide dual fuel multiple stage heating and one stage cooling in addition to manual or automatic changeover and indoor fan control.

4. Crankcase Heater:

Shall provide anti-floodback protection for lowload cooling applications.

5. Economizer:

a. Economizer controls capable of providing free cooling using outside air.

b. Equipped with low leakage dampers not to exceed 3% leakage, at 1.0 IN. W.C. pressure differential.

c. Spring return motor shuts off outdoor damper on power failure.

6. Filter Rack Kit:

Shall provide filter mounting for downflow applications.

7. Flat Roof Curb:

Curbs shall have seal strip and a wood nailer for flashing and shall be installed per manufacturer's instructions.

8. Flue Discharge Deflector

Directs flue gas exhaust 90 degrees upward from current discharge.

9. Heat Exchanger

Stainless Steel Heat Exchanger available.

10. High Altitude Propane conversion Kit

Shall consist of all required hardware to convert to propane gas heat operation at 2001 to 6000 ft (611 to 1829 m) above sea level.

11. Low Ambient Package:

Shall consist of a solid-state control and outdoor coil temperature sensor for controlling outdoor-fan motor operation, which shall allow unit to operate down to 0°F (17.7°C) outdoor ambient temperature.

12. Manual Outdoor Air Damper:

Package shall consist of damper, birdscreen, and rainhood which can be preset to admit outdoor air for year-round ventilation.

13. Natural-to-Propane Conversion Kit:

Shall be complete with all required hardware to convert to propane gas operation at standard altitude (0 to 2000 ft [0-610 m] above sea level).

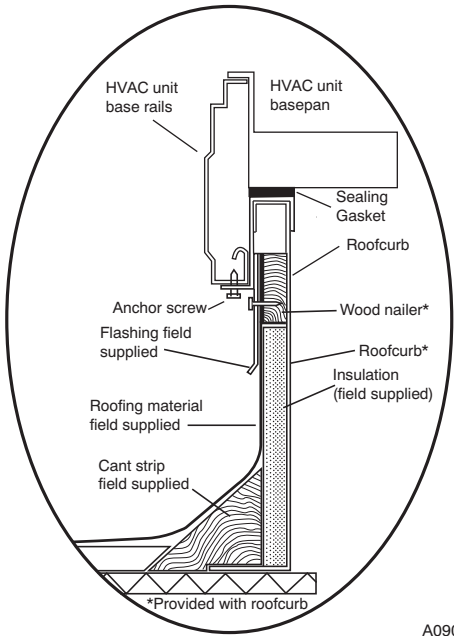
14. Propane-to-Natural Conversion Kit:

Shall be complete with all hardware to convert to natural gas at standard altitude (0 to 2000 ft [0 to 610 m] above sea level).

15. Square-To-Round Duct Transitions (24-48 models):

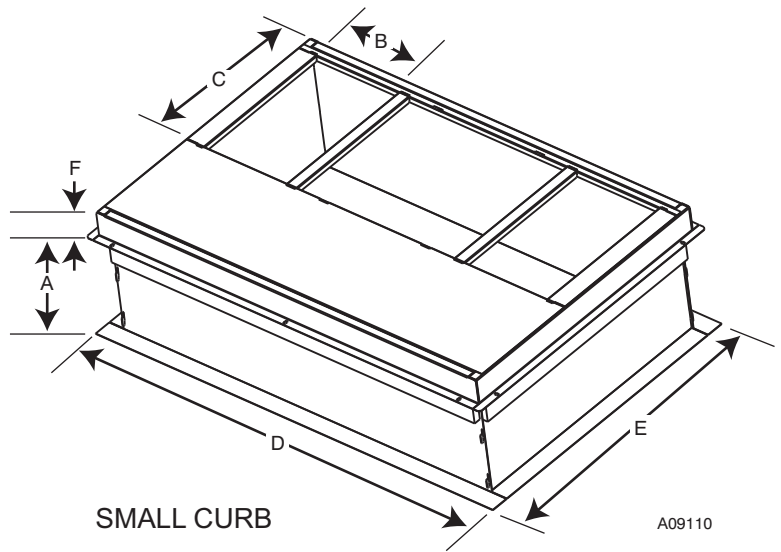
Shall have the ability to convert the supply and return openings from rectangular to round.

ROOF CURBS



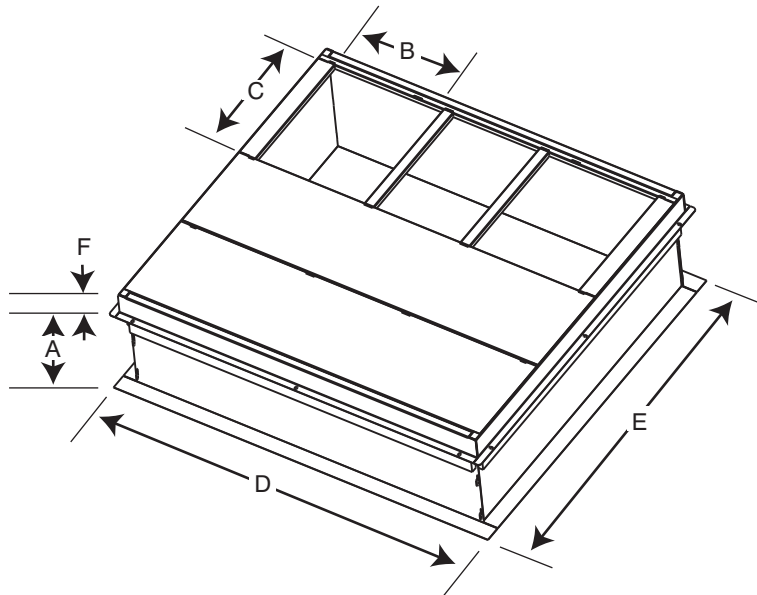
ROOF CURB DETAIL

A09090



SMALL CURB

A09110



LARGE CURB

A09095

| UNIT SIZE | CATALOG NUMBER | A IN. (mm) | B IN. (mm)* | C IN. (mm) | D IN. (mm) | E IN. (mm) | F IN. (mm) | | |
|-----------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|--|--|
| Small | CPRFCURB010A00 | 11 (279) | 10 (254) | 16 (406) | 47.8 (1214) | 32.4 (822) | 2.7 (69) | | |
| | CPRFCURB011A00 | 14 (356) | | | | | | | |
| Large | CPRFCURB012A00 | 11 (279) | 14 (356) | | | 43.9 (1116) | | | |
| | CPRFCURB013A00 | 14 (356) | | | | | | | |

NOTES:

1. Roof curb must be set up for unit being installed.
2. Seal strip must be applied, as required, to unit being installed.
3. Roof curb is made of 16-gauge steel.
4. Attach ductwork to curb (flanges of duct rest on curb).
5. Insulated panels: 1-in. (25.4 mm) thick fiberglass 1 lb. density.

IMPORTANT: Do not install large base pan Dual Fuel units onto the small base pan (common curb). The center of gravity on a large base pan Dual Fuel unit could overhang the curb causing an unsafe condition. Before installing any large base pan unit onto the common curb, check the "Y" distance in the dimensional drawing to ensure that "Y" is greater than 14 in. (356 mm). Do not install any large base pan unit onto the common curb with a "Y" dimension(center of gravity) less than 14 in. (356 mm).

PDD/S4 ACCESSORIES (continued)

ROOF CURBS

| Model Number | Description | Use With Model Size |
|----------------|---------------------|---------------------|
| CPRFCURB010A00 | Roof Curb, 11" High | 24 – 30 |
| CPRFCURB011A00 | Roof Curb, 14" High | 24 – 30 |
| CPRFCURB012A00 | Roof Curb, 11" High | 36 – 60 |
| CPRFCURB013A00 | Roof Curb, 14" High | 36 – 60 |

ADAPTER CURBS*

| | | |
|----------------|---|---------|
| CPADCURB001A00 | Adapter curb for use with NPRFCURB006A00 & NPRFCURB007A00 | 24 – 30 |
| CPADCURB002A00 | Adapter curb for use with NPRFCURB008A00 & NPRFCURB009A00 | 36 – 60 |

* Can also be used when replacing other manufacturer's older generation units that contain a composite base without a metal base rail.

CONCENTRIC ADAPTERS – (Use with curb only)

| | | |
|----------------|--|------------|
| NPCONADP001A00 | For 18" round duct (use with curbs CPRFCURB010A00, CPRFCURB011A00) | Small Curb |
| NPCONADP002A00 | For 18" round duct (use with curbs CPRFCURB012A00, CPRFCURB013A00) | Large Curb |

ECONOMIZERS

| Model Number | Description | Use With Model Size |
|----------------|---|---------------------|
| CPECOMZR007A00 | Dedicated Vertical Economizer – Internal with solid state controller, gear driven, fully modulating damper, spring return actuator, up to 50% barometric relief, supply and dry bulb outdoor air sensors. Includes filter rack with 1" filters*. | 24 – 30 |
| CPECOMZR008A00 | | 36 – 42 |
| CPECOMZR009A00 | | 48 – 60 |
| CPECOMZR010A00 | Dedicated Horizontal Economizer – Internal with solid state controller, fully modulating damper, spring return actuator, supply and dry bulb outdoor air sensor, and low ambient compressor lockout switch included. Includes filter rack with 1-inch filters*. | 24 – 30 |
| CPECOMZR011A00 | | 36 – 42 |
| CPECOMZR012A00 | | 48 – 60 |
| CPRLYKIT001A00 | Economizer relay for heat pumps | ALL |
| AXB078ENT | Outdoor Enthalpy Control | ALL |

* Outdoor enthalpy available as field installed accessory; Filter rack and 1" filter, same as CPFILTRK kit

MANUAL FRESH AIR DAMPERS

| Model Number | Description | Use With Model Size |
|----------------|--|---------------------|
| CPMANDPR007A00 | Manual Outside Air Damper – (Includes filter rack and 1" filter, same as CPFILTRK kit) | 24 – 30 |
| CPMANDPR008A00 | | 36 – 42 |
| CPMANDPR009A00 | | 48 – 60 |

INTERNAL FILTER RACK and FILTER (shipped with 1" filters)

| Model Number | Description | Use With Model Size |
|----------------|----------------------|---------------------|
| CPFILTRK007A00 | Internal Filter Rack | 24 – 30 |
| CPFILTRK008A00 | | 36 – 42 |
| CPFILTRK009A00 | | 48 – 60 |

LOW AMBIENT, ANTI-CYCLE TIMER, COMPRESSOR START ASSIST

| | | |
|-----------------|---|-----|
| CPLOWAMB001A00* | Low Ambient Control – enables cooling system to operate down to 0 Deg. F by cycling condenser fan on and off. | ALL |
| NRTIMEGD001A00 | Five Minute Compressor Delay | ALL |
| NPHSTART002A00 | PTC Compressor Start Assist Kit | ALL |

ACCESSORIES (continued)

CRANKCASE HEATER – BELLY BAND TYPE

| | | |
|----------------|--|-----|
| NPCRKHTR008A00 | 240V Crankcase Heater | 36 |
| NPCRKHTR004A00 | 240V Crankcase Heater (included on 48 & 60 size) | N/A |

*Relay 1184479 is required with this Low Ambient Control when used in heat pump application.

PDD/S4 ACCESSORIES (continued)

GAS CONVERSION KITS

| Model Number | Description | Use With Model Size |
|----------------|--|---------------------|
| NPLPCONV013A00 | Natural Gas to Propane Conversion Kit (0 – 2000') | ALL |
| NPLPCONV014A00 | Natural Gas to Propane Conversion Kit (2001' – 6000) | |
| NPNGCONV004A00 | Propane to Natural Gas Conversion Kit (0 – 2000') | |

FLUE DISCHARGE DEFLECTOR

| Model Number | Description | Heat Input (BTU/h) |
|----------------|--|--------------------|
| CRFLUEDS001A00 | Directs flue gas exhaust 90 degrees upward from current discharge. Designed to allow tighter distances between unit and combustible surfaces. 24 inch Height. AGA certified. | 40,000 – 130,000 |

HAIL GUARD / COIL PROTECTION (Factory installed on PDS models)

| Model Number | Description | Use With Model Size |
|--------------|---------------------------------|---------------------|
| NAPA00701GR | 3/8" spacing dense wire grilles | 24 – 30 |
| NAPA00601GR | 3/8" spacing dense wire grilles | 36 |
| NAPA01001GR | 3/8" spacing dense wire grilles | 42 – 48 |
| NAPA01301GR | 3/8" spacing dense wire grilles | 60 |

DUCT TRANSITIONS

| Model Number | Description | Use With Model Size |
|-----------------|---|---------------------|
| NPDUFCFLG002A00 | Square to Round (1 set of 2, use with horizontal duct flanges only) | 24 – 48 |