

## TECHNICAL SPECIFICATIONS

# P7RE Series

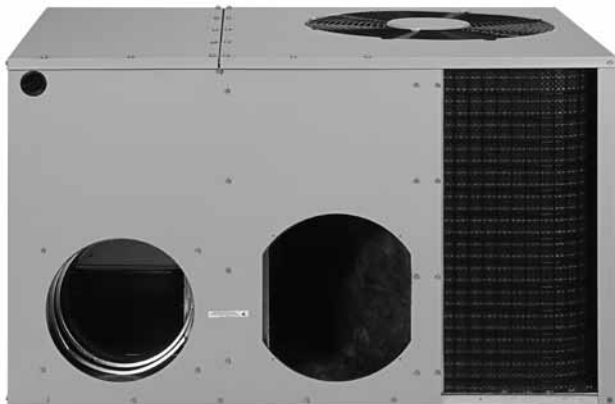
## Single Packaged Air Conditioner

**P7RE 14 SEER**

**2 thru 5 Ton Units**

**Cooling: 23,800 to 56,000 Btuh**

The P7 Series single packaged air conditioners are high efficiency self contained cooling units that can be installed on a slab. Heater kits are available as accessory items. Units are ETL and ETLc listed.



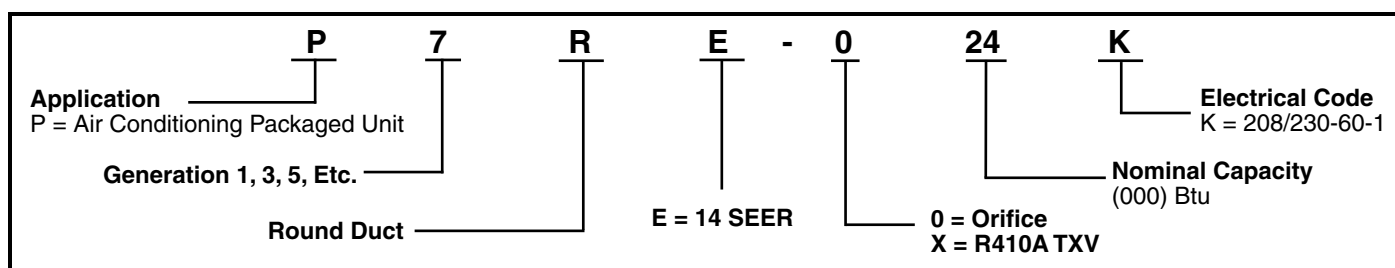
*3.5, 4 & 5 ton rear-view shown*

## FEATURES and BENEFITS

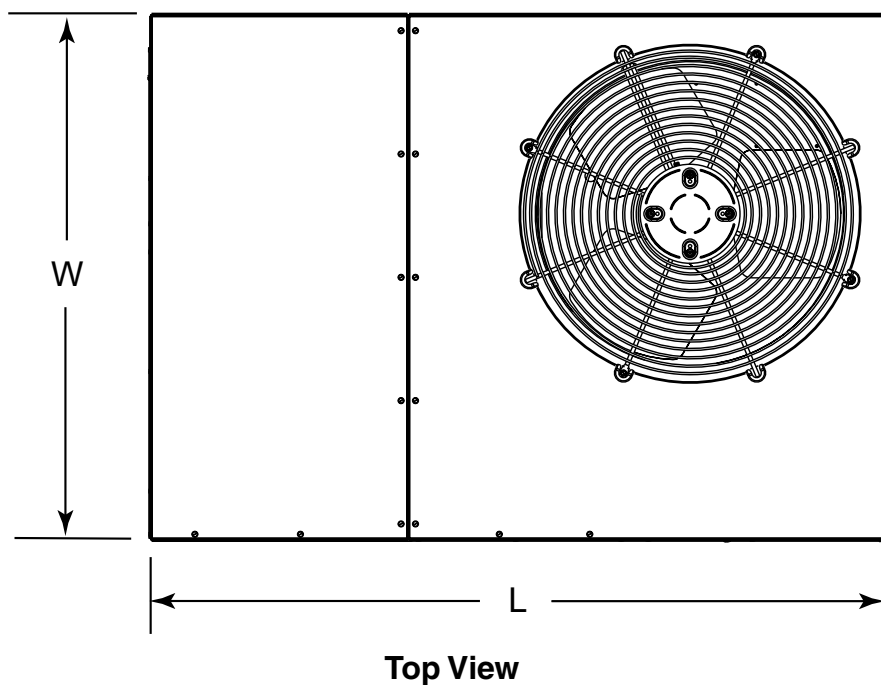
- **Quality Compressor:** State of the art compressor is standard equipment.
- **Hi Pressure Switches:** Ensure long compressor life.
- **Micro-Channel Coils:** Both indoor and outdoor all aluminum coils are designed to optimize heat transfer, minimize size and cost, and increase durability and reliability. Eliminates corrosion.
- **ECM Blower Motor:** Fixed torque energy efficient brushless DC ECM motor.
- **Permanently Lubricated Condenser Motor:** A heavy duty PSC motor for long lasting reliability and quiet operation. Requires no maintenance and is completely protected from rain and snow.
- **Low Voltage Transformer:** Includes 3 Amp fuse to protect low voltage circuit.
- **Liquid Line Filter Drier:** Factory installed at a convenient location for service.
- **Designed Using Galvanized Steel:** With a polyester urethane coat finish. The 950 hour salt spray finish is 1.5 mil thick and resists corrosion 50% better than comparable units.
- **Compact Footprint and Profile:** Make the P7 Series easy to install and transport.
- **0" Clearance:** To combustibles on duct side of the unit allows for installations in tight areas.
- **Wire Guard Coated with Earth Friendly Epoxy and Plastic Mesh Hail Guard:** A guard that will never rust and protects the units coil from being damaged.
- **Raised Base Pan:** Allows water to drain away from the unit.
- **Easy Compressor and Control Access:** Designed to make servicing easier for the contractor, access panels are provided to all controls and the compressor from the side of the unit. Hi/low service ports allow access without disrupting operation.
- **Easy Access:** To the evaporator coil for cleaning, blower assembly removal and general maintenance.
- **Drain Trap:** Design optimizes drainage capabilities.
- **Removable Top Grille Assembly:** Allows ease of service to the fan motor.
- **Optional Electric Heat:** Field installed 5 – 20 KW.



## MODEL IDENTIFICATION CODE



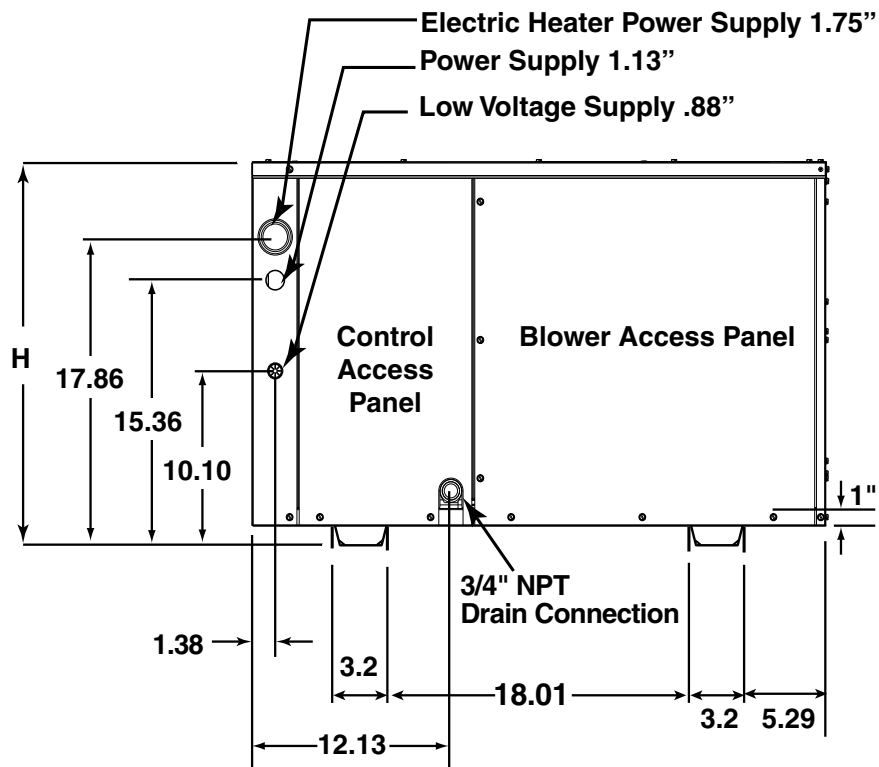
## DIMENSIONS



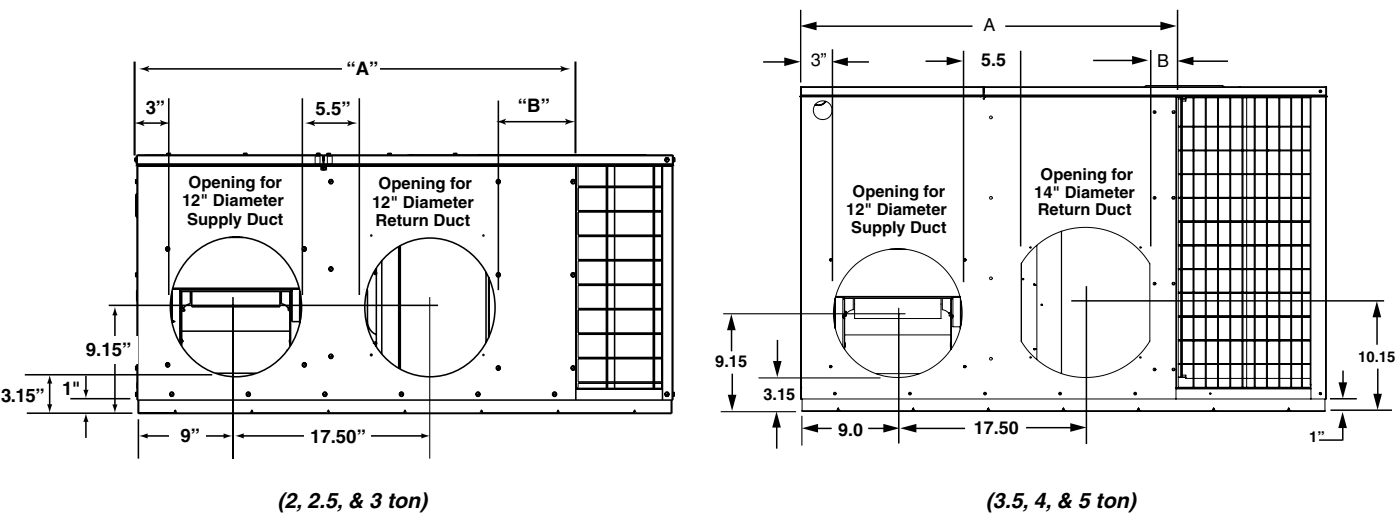
| Model No.<br>P7RE | (L)<br>Length | (W)<br>Width | (H)<br>Height | A     | B    |
|-------------------|---------------|--------------|---------------|-------|------|
| 024K              | 49            | 35           | 22.2          | 35.02 | 2.48 |
| 030K              | 49            | 35           | 22.2          | 35.02 | 2.48 |
| 036K              | 49            | 35           | 22.2          | 35.02 | 2.48 |
| 042K              | 49            | 35           | 30.2          | 35.02 | 2.48 |
| 048K              | 49            | 35           | 30.2          | 35.02 | 2.48 |
| X60K              | 49            | 35           | 34.2          | 35.02 | 2.48 |

| Model Number<br>P7RE | Return<br>Diameter (in) | Supply<br>Diameter (in) |
|----------------------|-------------------------|-------------------------|
| 024K                 | 12                      | 12                      |
| 030K                 | 12                      | 12                      |
| 036K                 | 12                      | 12                      |
| 042K                 | 14                      | 12                      |
| 048K                 | 14                      | 12                      |
| X60K                 | 14                      | 12                      |

DIMENSIONS Continued



Side View



Back (Duct) View

## PHYSICAL SPECIFICATIONS

### P7RE Models

| Model No. P7RE            |                         |                   | 024K          | 030K          | 036K          | 042K          | 048K          | X60K         |
|---------------------------|-------------------------|-------------------|---------------|---------------|---------------|---------------|---------------|--------------|
| Performance Data          | Cooling Btu/h           |                   | 23800         | 28400         | 35000         | 40500         | 47000         | 56000        |
|                           | SEER                    |                   | 14            | 14            | 14            | 14            | 14            | 14           |
|                           | EER                     |                   | 11            | 11            | 11            | 11            | 11            | 11           |
|                           | Sound Ratings           |                   | 73            | 73            | 76            | 76            | 78            | 78           |
| Electrical Data           | Volts-Cycles-Phase (1)  |                   | 208/230-60-1  | 208/230-60-1  | 208/230-60-1  | 208/230-60-1  | 208/230-60-1  | 208/230-60-1 |
|                           | Operating Voltage Range |                   | 187 - 253     | 187 - 253     | 187 - 253     | 187 - 253     | 187 - 253     | 187 - 253    |
|                           | Total Amps              |                   | 13.1          | 14.7          | 21.5          | 24.8          | 28.7          | 32.8         |
|                           | Delay Fuse - Max. (2)   |                   | 20            | 25            | 40            | 45            | 50            | 60           |
|                           | Min. Circuit Ampacity   |                   | 15.2          | 17.2          | 25.7          | 29.3          | 34.2          | 38.9         |
| Condenser Data            | Outdoor Coil            | Face Area (Ft²)   | 8.95          | 8.95          | 8.95          | 12.54         | 12.54         | 14.1         |
|                           |                         | Type              | MC-23         | MC-23         | MC-23         | MC-23         | MC-23         | MC-21        |
|                           | PSC Fan Motor           | Fan Motor - Amps  | 1             | 1             | 1.1           | 1.5           | 1.5           | 1.5          |
|                           |                         | RPM               | 825           | 825           | 1100          | 1100          | 1100          | 1100         |
|                           |                         | HP                | 1/5           | 1/5           | 1/8           | 1/4           | 1/4           | 1/4          |
|                           | Fan Blade               | Dia - # Blades    | 20-3          | 20-3          | 20-3          | 20-3          | 20-3          | 20-3         |
|                           |                         | SCFM              | 2400          | 2400          | 2400          | 2800          | 2800          | 3000         |
|                           | Compressor Data         | RLA               | 8.3           | 9.9           | 16.6          | 17.9          | 21.8          | 24.3         |
|                           |                         | LRA               | 50            | 69            | 79            | 112           | 117           | 144.2        |
| Evaporator Data           | Indoor Coil             | Face Area (Ft²)   | 3.6           | 3.6           | 3.6           | 5.1           | 5.1           | 5.8          |
|                           |                         | Type              | MC-20         | MC-20         | MC-20         | MC-20         | MC-20         | MC-20        |
|                           |                         | Metering Device   | Fixed Orifice | Fixed Orifice | Fixed Orifice | Fixed Orifice | Fixed Orifice | TXV          |
|                           | ECM Blower              | Amps              | 3.8           | 3.8           | 3.8           | 5.4           | 5.4           | 7            |
|                           |                         | HP                | 1/2           | 1/2           | 1/2           | 3/4           | 3/4           | 1            |
| R410A Refrigerant Charge  |                         | Oz.               | 55            | 58            | 58            | 57            | 70            | 69           |
| Approximate Weight (lbs.) |                         | Shipping          | 242           | 248           | 242           | 297           | 300           | 325          |
|                           |                         | Net Weight (lbs.) | 230           | 236           | 230           | 283           | 286           | 309          |

(1) Operating Voltage Range: 187v min. - 253v max. Amperage and wire size based on refrigeration system only. See electrical data tables for supplemental electric heaters.

(2) HACR Type Circuit Breakers may be used.

## ELECTRICAL DATA

| Model     | Heater kw | Single Circuit |      | Multiple Supply Circuit Option       |     |                    |     |
|-----------|-----------|----------------|------|--------------------------------------|-----|--------------------|-----|
|           |           | MCA            | MOP  | Circuit A (Compressor, Blower & Fan) |     | Circuit B (Heater) |     |
|           |           |                |      | MCA                                  | MOP | MCA                | MOP |
| P7RE-024K | 0         | 15.2           | 20.0 | -                                    | -   | -                  | -   |
|           | 5         | 29.8           | 30.0 | -                                    | -   | -                  | -   |
|           | 8         | 44.3           | 45.0 | -                                    | -   | -                  | -   |
|           | 10        | 54.8           | 60.0 | -                                    | -   | -                  | -   |
| P7RE-030K | 0         | 17.2           | 25.0 | -                                    | -   | -                  | -   |
|           | 5         | 29.8           | 30.0 | -                                    | -   | -                  | -   |
|           | 8         | 44.3           | 45.0 | -                                    | -   | -                  | -   |
|           | 10        | 54.8           | 60.0 | -                                    | -   | -                  | -   |
|           | 15        | 79.8           | 80   | 54.8                                 | 60  | 25                 | 30  |
| P7RE-036K | 0         | 25.7           | 40.0 | -                                    | -   | -                  | -   |
|           | 5         | 29.8           | 40.0 | -                                    | -   | -                  | -   |
|           | 8         | 44.3           | 45.0 | -                                    | -   | -                  | -   |
|           | 10        | 54.8           | 60.0 | -                                    | -   | -                  | -   |
|           | 15        | 79.8           | 80   | 54.8                                 | 60  | 25                 | 30  |
| P7RE-042K | 0         | 29.3           | 45.0 | -                                    | -   | -                  | -   |
|           | 5         | 31.9           | 45.0 |                                      |     |                    |     |
|           | 8         | 46.3           | 50.0 |                                      |     |                    |     |
|           | 10        | 56.8           | 60.0 |                                      |     |                    |     |
|           | 15        | 81.8           | 90   | 56.8                                 | 60  | 25                 | 30  |
|           | 20        | 106.8          | 110  | 56.8                                 | 60  | 50                 | 60  |
| P7RE-048K | 0         | 34.2           | 50.0 |                                      |     |                    |     |
|           | 5         | 34.2           | 50.0 |                                      |     |                    |     |
|           | 8         | 46.3           | 50.0 |                                      |     |                    |     |
|           | 10        | 56.8           | 60.0 |                                      |     |                    |     |
|           | 15        | 81.8           | 90   | 56.8                                 | 60  | 25                 | 30  |
|           | 20        | 106.8          | 110  | 56.8                                 | 60  | 50                 | 60  |
| P7RE-X60K | 0         | 38.9           | 60.0 | -                                    | -   | -                  | -   |
|           | 5         | 38.9           | 60.0 | -                                    | -   | -                  | -   |
|           | 8         | 48.3           | 60.0 | -                                    | -   | -                  | -   |
|           | 10        | 58.8           | 60.0 | -                                    | -   | -                  | -   |
|           | 15        | 83.8           | 90   | 58.8                                 | 60  | 25                 | 30  |
|           | 20        | 108.8          | 110  | 58.8                                 | 60  | 50                 | 60  |

## BLOWER PERFORMANCE

| HEAT RISE DATA (Based on Nominal 10kw Electric Heat Kit) |                |                                                     |           |      |           |      |           |      |           |      |           |      |           |      |           |      |           |
|----------------------------------------------------------|----------------|-----------------------------------------------------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|
| UNIT                                                     | BLOWER SETTING | EXTERNAL STATIC PRESSURE DROP - INCHES WATER COLUMN |           |      |           |      |           |      |           |      |           |      |           |      |           |      |           |
|                                                          |                | 0.1                                                 |           | 0.2  |           | 0.3  |           | 0.4  |           | 0.5  |           | 0.6  |           | 0.7  |           | 0.8  |           |
|                                                          |                | CFM                                                 | HEAT RISE | CFM  | HEAT RISE | CFM  | HEAT RISE | CFM  | HEAT RISE | CFM  | HEAT RISE | CFM  | HEAT RISE | CFM  | HEAT RISE | CFM  | HEAT RISE |
| 024K                                                     | Tap T1*        | 950                                                 | 33        | 823  | 38        | 881  | 36        | 832  | 38        | 788  | 40        | 722  | 44        | 655  | 48        | 593  | 53        |
|                                                          | Tap T2**       | 1123                                                | 28        | 1100 | 29        | 1065 | 30        | 1023 | 31        | 978  | 32        | 929  | 34        | 877  | 36        | 820  | 39        |
|                                                          | Tap T3         | 1189                                                | 27        | 1158 | 27        | 1141 | 28        | 1084 | 29        | 1047 | 30        | 1009 | 31        | 959  | 33        | 906  | 35        |
|                                                          | Tap T4         | 1291                                                | 24        | 1246 | 25        | 1236 | 26        | 1195 | 26        | 1161 | 27        | 1120 | 28        | 1075 | 29        | 1031 | 31        |
|                                                          | Tap T5         | 1359                                                | 23        | 1320 | 24        | 1302 | 24        | 1280 | 25        | 1243 | 25        | 1205 | 26        | 1162 | 27        | 1112 | 28        |
| 030K                                                     | Tap T1         | 950                                                 | 33        | 823  | 38        | 881  | 36        | 832  | 38        | 788  | 40        | 722  | 44        | 655  | 48        | 593  | 53        |
|                                                          | Tap T2**       | 1123                                                | 28        | 1100 | 29        | 1065 | 30        | 1023 | 31        | 978  | 32        | 929  | 34        | 877  | 36        | 820  | 39        |
|                                                          | Tap T3*        | 1189                                                | 27        | 1158 | 27        | 1141 | 28        | 1084 | 29        | 1047 | 30        | 1009 | 31        | 959  | 33        | 906  | 35        |
|                                                          | Tap T4         | 1291                                                | 24        | 1246 | 25        | 1236 | 26        | 1195 | 26        | 1161 | 27        | 1120 | 28        | 1075 | 29        | 1031 | 31        |
|                                                          | Tap T5         | 1359                                                | 23        | 1320 | 24        | 1302 | 24        | 1280 | 25        | 1243 | 25        | 1205 | 26        | 1162 | 27        | 1112 | 28        |
| 036K                                                     | Tap T1**       | 1215                                                | 26        | 1175 | 27        | 1130 | 28        | 1075 | 29        | 1020 | 31        | 970  | 33        | 900  | 35        | 840  | 38        |
|                                                          | Tap T2         | 1313                                                | 24        | 1277 | 25        | 1236 | 26        | 1190 | 27        | 1153 | 27        | 1104 | 29        | 1051 | 30        | 992  | 32        |
|                                                          | Tap T3         | 1460                                                | 22        | 1415 | 22        | 1385 | 23        | 1335 | 24        | 1275 | 25        | 1225 | 26        | 1170 | 27        | 1120 | 28        |
|                                                          | Tap T4*        | 1502                                                | 21        | 1466 | 22        | 1437 | 22        | 1388 | 23        | 1345 | 23        | 1305 | 24        | 1251 | 25        | 1204 | 26        |
|                                                          | Tap T5         | 1565                                                | 20        | 1525 | 21        | 1490 | 21        | 1450 | 22        | 1410 | 22        | 1370 | 23        | 1315 | 24        | 1270 | 25        |
| 042K                                                     | Tap T1         | 1375                                                | 23        | 1345 | 23        | 1310 | 24        | 1275 | 25        | 1240 | 25        | 1205 | 26        | 1160 | 27        | 1120 | 28        |
|                                                          | Tap T2**       | 1470                                                | 21        | 1435 | 22        | 1400 | 23        | 1370 | 23        | 1335 | 24        | 1300 | 24        | 1260 | 25        | 1215 | 26        |
|                                                          | Tap T3*        | 1600                                                | 20        | 1570 | 20        | 1535 | 21        | 1505 | 21        | 1470 | 21        | 1440 | 22        | 1400 | 23        | 1355 | 23        |
|                                                          | Tap T4         | 1715                                                | 18        | 1680 | 19        | 1650 | 19        | 1620 | 20        | 1585 | 20        | 1545 | 20        | 1505 | 21        | 1470 | 21        |
|                                                          | Tap T5         | 1895                                                | 17        | 1865 | 17        | 1830 | 17        | 1795 | 18        | 1760 | 18        | 1730 | 18        | 1695 | 19        | 1655 | 19        |
| 048K                                                     | Tap T1         | 1375                                                | 23        | 1345 | 23        | 1310 | 24        | 1275 | 25        | 1240 | 25        | 1205 | 26        | 1160 | 27        | 1120 | 28        |
|                                                          | Tap T2**       | 1470                                                | 21        | 1435 | 22        | 1400 | 23        | 1370 | 23        | 1335 | 24        | 1300 | 24        | 1260 | 25        | 1215 | 26        |
|                                                          | Tap T3         | 1600                                                | 20        | 1570 | 20        | 1535 | 21        | 1505 | 21        | 1470 | 21        | 1440 | 22        | 1400 | 23        | 1355 | 23        |
|                                                          | Tap T4*        | 1715                                                | 18        | 1680 | 19        | 1650 | 19        | 1620 | 20        | 1585 | 20        | 1545 | 20        | 1505 | 21        | 1470 | 21        |
|                                                          | Tap T5         | 1895                                                | 17        | 1865 | 17        | 1830 | 17        | 1795 | 18        | 1760 | 18        | 1730 | 18        | 1695 | 19        | 1655 | 19        |
| X60K                                                     | Tap T1**       | 1390                                                | 23        | 1350 | 23        | 1310 | 24        | 1270 | 25        | 1240 | 25        | 1205 | 26        | 1160 | 27        | 1120 | 28        |
|                                                          | Tap T2         | 1540                                                | 21        | 1510 | 21        | 1480 | 21        | 1440 | 22        | 1410 | 22        | 1380 | 23        | 1340 | 24        | 1310 | 24        |
|                                                          | Tap T3         | 1700                                                | 19        | 1670 | 19        | 1630 | 19        | 1600 | 20        | 1580 | 20        | 1540 | 21        | 1510 | 21        | 1480 | 21        |
|                                                          | Tap T4*        | 1770                                                | 18        | 1740 | 18        | 1700 | 19        | 1660 | 19        | 1640 | 19        | 1600 | 20        | 1580 | 20        | 1540 | 21        |
|                                                          | Tap T5         | 2080                                                | 15        | 2030 | 16        | 2020 | 16        | 1970 | 16        | 1940 | 16        | 1910 | 17        | 1870 | 17        | 1840 | 17        |

### NOTES:

Temperature rises shaded gray are for reference only. These conditions are not recommended.

\* Denotes factory set cooling speed

\*\* Denotes factory set electric heating speed

| Conversion    |         |
|---------------|---------|
| KW/h to Btu/h | 3412.1  |
| KW/h          | Btu/h   |
| 5             | 17060.7 |
| 8             | 27297.1 |
| 10            | 34121.4 |
| 15            | 51182.1 |
| 20            | 68242.8 |

Heat rise

$$\text{Btu/h} = \text{CFM} \times \Delta T \times 1.08$$

$$\Delta T = (\text{Btu/h}) / (\text{CFM} \times 1.08)$$

| COPPER WIRE SIZE — AWG<br>(1% Voltage Drop) |     |     |    |                         |
|---------------------------------------------|-----|-----|----|-------------------------|
| Supply Wire Length-Feet                     |     |     |    | Supply Circuit Ampacity |
| 200                                         | 150 | 100 | 50 |                         |
| 6                                           | 8   | 10  | 14 | 15                      |
| 4                                           | 6   | 8   | 12 | 20                      |
| 4                                           | 6   | 8   | 10 | 25                      |
| 4                                           | 4   | 6   | 10 | 30                      |
| 3                                           | 4   | 6   | 8  | 35                      |
| 3                                           | 4   | 6   | 8  | 40                      |
| 2                                           | 3   | 4   | 6  | 45                      |
| 2                                           | 3   | 4   | 6  | 50                      |

Wire Size based on N.E.C. for 60° type copper conductors.

## ACCESSORIES

### Heater Application Matrix

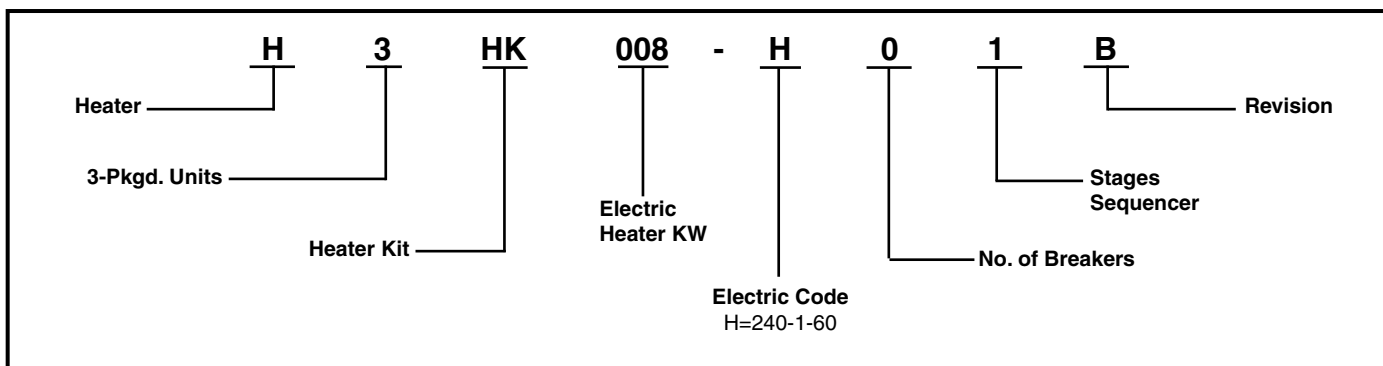
| Model Number<br>P7RE | H3HK-005H-01B<br>917166B | H3HK-008H-01B<br>917167B | H3HK-010H-01B<br>917168B | H3HK-015H-01B<br>917169B | H3HK-020H-01B<br>917170B | H3HK-015H-21B<br>917172B | H3HK-020H-21B<br>917173B |
|----------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 024K                 | X                        | X                        | X                        | NA                       | NA                       | NA                       | NA                       |
| 030K                 | X                        | X                        | X                        | X(2)                     | NA                       | X                        | NA                       |
| 036K                 | X                        | X                        | X                        | X(2)                     | NA                       | X                        | NA                       |
| 042K                 | X                        | X                        | X                        | X(2)                     | X(2)                     | X                        | X                        |
| 048K                 | X                        | X                        | X                        | X(2)                     | X(2)                     | X                        | X                        |
| X60K                 | X                        | X                        | X                        | X(2)                     | X(2)                     | X                        | X                        |

NA = Not Approved.

() = Number of internal circuit breaker kits required.

X = Branch circuit protection only.

## MODEL IDENTIFICATION CODE



## Accessories

| Description                           | Part Number |
|---------------------------------------|-------------|
| 4-Pole single circuit adaptor         | 913350      |
| 6-Pole single circuit adaptor         | 913556      |
| Circuit Breaker Single Phase (2-pole) | 913554      |
| Duct Collar - 12"                     | 917701      |
| Duct Collar - 14"                     | 917702      |

# COOLING EXPANDED RATINGS

## P7RE-024K

| O.D.T. |        |        | 65°F |      |      | 75°F |      |      | 85°F |      |      | 95°F |      |      | 105°F |      |      | 115°F |      |      |
|--------|--------|--------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|-------|------|------|
| CFM    | E.D.B. | E.W.B. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C.  | S.C. | K.W. | T.C.  | S.C. | K.W. |
| 750    | 80     | 62     | 25.3 | 19.8 | 1.04 | 23.9 | 19.5 | 1.34 | 22.6 | 19.7 | 1.57 | 21.4 | 19.3 | 1.79 | 20.5  | 20.1 | 1.98 | 19.7  | 19.3 | 2.18 |
|        | 80     | 67     | 27.6 | 18.1 | 1.05 | 25.9 | 17.5 | 1.34 | 24.5 | 17.1 | 1.59 | 23.3 | 16.6 | 1.80 | 22.1  | 16.2 | 1.99 | 20.9  | 15.0 | 2.19 |
|        | 80     | 72     | 30.3 | 12.5 | 1.05 | 28.5 | 12.2 | 1.36 | 27.1 | 12.4 | 1.59 | 25.8 | 12.2 | 1.80 | 24.5  | 12.1 | 1.99 | 23.1  | 12.4 | 2.21 |
|        | 75     | 62     | 25.1 | 16.4 | 1.04 | 23.6 | 16.0 | 1.34 | 22.3 | 16.0 | 1.57 | 21.1 | 15.7 | 1.78 | 20.1  | 15.0 | 1.98 | 18.9  | 16.1 | 2.17 |
| 850    | 80     | 62     | 26.1 | 21.3 | 1.04 | 24.6 | 21.7 | 1.34 | 23.3 | 21.2 | 1.58 | 22.4 | 20.8 | 1.79 | 21.5  | 20.6 | 1.98 | 20.5  | 20.2 | 2.18 |
|        | 80     | 67     | 28.2 | 19.1 | 1.05 | 26.6 | 18.7 | 1.34 | 25.0 | 18.1 | 1.59 | 23.7 | 17.7 | 1.80 | 22.6  | 17.4 | 1.99 | 21.4  | 17.5 | 2.19 |
|        | 80     | 72     | 31.0 | 13.1 | 1.06 | 29.1 | 13.5 | 1.36 | 27.7 | 13.1 | 1.59 | 26.3 | 13.0 | 1.80 | 24.9  | 13.1 | 2.00 | 23.5  | 13.3 | 2.21 |
|        | 75     | 62     | 25.8 | 17.4 | 1.04 | 24.2 | 17.6 | 1.34 | 22.9 | 17.6 | 1.57 | 21.6 | 17.4 | 1.79 | 20.5  | 17.4 | 1.98 | 19.4  | 17.4 | 2.17 |
| 950    | 80     | 62     | 26.7 | 23.1 | 1.04 | 25.3 | 23.1 | 1.34 | 24.3 | 22.3 | 1.58 | 23.2 | 21.8 | 1.80 | 22.2  | 21.3 | 1.99 | 21.1  | 21.0 | 2.19 |
|        | 80     | 67     | 28.8 | 20.2 | 1.05 | 27.1 | 19.7 | 1.34 | 25.5 | 19.1 | 1.59 | 24.3 | 18.8 | 1.80 | 23.0  | 19.0 | 1.99 | 21.8  | 18.7 | 2.20 |
|        | 80     | 72     | 31.5 | 14.0 | 1.06 | 29.6 | 14.2 | 1.36 | 28.1 | 13.7 | 1.59 | 26.7 | 13.8 | 1.80 | 25.3  | 13.8 | 2.00 | 23.8  | 14.0 | 2.21 |
|        | 75     | 62     | 26.3 | 18.7 | 1.04 | 24.7 | 19.2 | 1.34 | 23.3 | 18.7 | 1.58 | 22.0 | 18.6 | 1.79 | 20.9  | 18.5 | 1.98 | 19.8  | 18.6 | 2.18 |

## P7RE-030K

| O.D.T. |        |        | 65°F |      |      | 75°F |      |      | 85°F |      |      | 95°F |      |      | 105°F |      |      | 115°F |      |      |
|--------|--------|--------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|-------|------|------|
| CFM    | E.D.B. | E.W.B. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C.  | S.C. | K.W. | T.C.  | S.C. | K.W. |
| 1000   | 80     | 62     | 28.8 | 23.8 | 0.60 | 28.6 | 24.1 | 1.63 | 27.7 | 24.5 | 2.10 | 26.5 | 24.1 | 2.35 | 25.3  | 24.8 | 2.51 | 24.1  | 23.6 | 2.71 |
|        | 80     | 67     | 31.5 | 21.3 | 0.76 | 31.0 | 21.2 | 1.68 | 29.9 | 21.0 | 2.11 | 28.3 | 20.4 | 2.34 | 26.8  | 19.9 | 2.51 | 25.3  | 18.6 | 2.72 |
|        | 80     | 72     | 34.8 | 14.7 | 0.95 | 34.0 | 14.8 | 1.71 | 32.7 | 15.2 | 2.10 | 31.1 | 14.9 | 2.32 | 29.2  | 14.7 | 2.49 | 27.4  | 15.1 | 2.72 |
|        | 75     | 62     | 28.4 | 19.3 | 0.57 | 28.2 | 19.5 | 1.61 | 27.3 | 19.8 | 2.10 | 26.0 | 19.4 | 2.35 | 24.6  | 18.0 | 2.50 | 23.1  | 19.9 | 2.69 |
| 1100   | 80     | 62     | 29.5 | 25.2 | 0.64 | 29.2 | 26.3 | 1.64 | 28.3 | 25.9 | 2.11 | 27.3 | 25.4 | 2.35 | 26.1  | 25.0 | 2.51 | 24.7  | 24.5 | 2.71 |
|        | 80     | 67     | 32.0 | 22.3 | 0.82 | 31.5 | 22.4 | 1.68 | 30.3 | 21.9 | 2.11 | 28.5 | 21.4 | 2.34 | 27.2  | 20.9 | 2.50 | 25.6  | 20.5 | 2.72 |
|        | 80     | 72     | 35.3 | 15.3 | 0.97 | 34.5 | 16.2 | 1.71 | 33.1 | 15.8 | 2.10 | 31.3 | 15.7 | 2.31 | 29.5  | 15.8 | 2.49 | 27.7  | 15.8 | 2.72 |
|        | 75     | 62     | 29.0 | 20.3 | 0.61 | 28.7 | 21.1 | 1.63 | 27.7 | 20.7 | 2.10 | 26.4 | 21.2 | 2.35 | 25.0  | 21.1 | 2.51 | 23.5  | 21.1 | 2.70 |
| 1200   | 80     | 62     | 30.3 | 26.8 | 0.69 | 30.0 | 27.4 | 1.66 | 29.2 | 26.8 | 2.11 | 28.0 | 26.3 | 2.35 | 26.7  | 25.6 | 2.51 | 25.3  | 25.1 | 2.72 |
|        | 80     | 67     | 32.5 | 23.3 | 0.87 | 31.9 | 23.3 | 1.69 | 30.7 | 22.8 | 2.11 | 28.9 | 22.4 | 2.34 | 27.6  | 21.8 | 2.50 | 25.9  | 22.1 | 2.72 |
|        | 80     | 72     | 35.7 | 16.2 | 0.98 | 34.7 | 16.8 | 1.71 | 33.3 | 16.4 | 2.09 | 31.7 | 16.4 | 2.31 | 29.8  | 16.3 | 2.48 | 28.0  | 16.5 | 2.72 |
|        | 75     | 62     | 29.4 | 22.3 | 0.64 | 29.1 | 22.8 | 1.64 | 28.2 | 22.4 | 2.11 | 26.8 | 22.3 | 2.35 | 25.3  | 22.2 | 2.51 | 23.8  | 22.2 | 2.70 |

## P7RE-036K

| O.D.T. |        |        | 65°F |      |      | 75°F |      |      | 85°F |      |      | 95°F |      |      | 105°F |      |      | 115°F |      |      |
|--------|--------|--------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|-------|------|------|
| CFM    | E.D.B. | E.W.B. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C.  | S.C. | K.W. | T.C.  | S.C. | K.W. |
| 1150   | 80     | 62     | 36.8 | 29.5 | 2.18 | 35.4 | 29.3 | 2.42 | 33.9 | 29.6 | 2.68 | 32.3 | 29.0 | 2.97 | 30.7  | 30.1 | 3.31 | 29.0  | 28.4 | 3.68 |
|        | 80     | 67     | 39.9 | 27.7 | 2.21 | 38.3 | 27.1 | 2.45 | 36.7 | 26.6 | 2.71 | 34.9 | 26.0 | 3.00 | 33.0  | 25.3 | 3.34 | 31.0  | 23.1 | 3.72 |
|        | 80     | 72     | 43.9 | 19.0 | 2.25 | 42.2 | 18.9 | 2.49 | 40.3 | 19.3 | 2.76 | 38.3 | 18.9 | 3.05 | 36.2  | 18.7 | 3.39 | 33.9  | 19.1 | 3.77 |
|        | 75     | 62     | 36.4 | 25.1 | 2.18 | 34.9 | 24.9 | 2.41 | 33.3 | 25.0 | 2.67 | 31.7 | 24.5 | 2.96 | 30.0  | 22.6 | 3.30 | 28.1  | 24.2 | 3.67 |
| 1250   | 80     | 62     | 37.4 | 30.9 | 2.19 | 36.0 | 31.6 | 2.42 | 34.5 | 30.8 | 2.69 | 33.0 | 30.4 | 2.98 | 31.3  | 30.0 | 3.31 | 29.7  | 29.4 | 3.69 |
|        | 80     | 67     | 40.6 | 28.8 | 2.21 | 38.9 | 28.5 | 2.45 | 37.1 | 27.8 | 2.72 | 35.3 | 27.1 | 3.01 | 33.4  | 26.5 | 3.34 | 31.4  | 25.9 | 3.73 |
|        | 80     | 72     | 44.5 | 19.7 | 2.25 | 42.6 | 20.6 | 2.50 | 40.7 | 20.0 | 2.76 | 38.6 | 19.8 | 3.06 | 36.5  | 20.0 | 3.40 | 34.2  | 20.1 | 3.77 |
|        | 75     | 62     | 36.9 | 26.2 | 2.18 | 35.4 | 26.8 | 2.42 | 33.8 | 26.1 | 2.68 | 32.2 | 25.8 | 2.97 | 30.4  | 25.7 | 3.30 | 28.5  | 25.5 | 3.68 |
| 1350   | 80     | 62     | 38.1 | 32.6 | 2.19 | 36.6 | 32.8 | 2.43 | 35.2 | 31.9 | 2.69 | 33.5 | 31.5 | 2.99 | 31.9  | 30.7 | 3.32 | 30.3  | 30.1 | 3.70 |
|        | 80     | 67     | 41.0 | 30.0 | 2.22 | 39.3 | 29.6 | 2.46 | 37.6 | 28.9 | 2.72 | 35.7 | 28.3 | 3.02 | 33.8  | 27.6 | 3.35 | 31.7  | 27.0 | 3.73 |
|        | 80     | 72     | 44.8 | 20.8 | 2.26 | 42.9 | 21.3 | 2.50 | 41.0 | 20.7 | 2.77 | 38.9 | 20.7 | 3.06 | 36.8  | 20.7 | 3.41 | 34.6  | 20.9 | 3.78 |
|        | 75     | 62     | 37.4 | 27.6 | 2.18 | 35.9 | 27.8 | 2.42 | 34.3 | 27.2 | 2.68 | 32.6 | 27.0 | 2.97 | 30.8  | 26.7 | 3.31 | 28.9  | 26.7 | 3.68 |

## COOLING EXPANDED RATINGS (CONTINUED)

### P7RE-042K

| O.D.T. |        |        | 65°F |      |      | 75°F |      |      | 85°F |      |      | 95°F |      |      | 105°F |      |      | 115°F |      |      |
|--------|--------|--------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|-------|------|------|
| CFM    | E.D.B. | E.W.B. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C.  | S.C. | K.W. | T.C.  | S.C. | K.W. |
| 1250   | 80     | 62     | 41.4 | 32.3 | 2.33 | 39.9 | 32.2 | 2.59 | 38.2 | 32.6 | 2.89 | 36.6 | 32.2 | 3.23 | 34.9  | 34.0 | 3.62 | 33.2  | 32.4 | 4.08 |
|        | 80     | 67     | 45.2 | 29.6 | 2.37 | 43.4 | 29.0 | 2.64 | 41.6 | 28.5 | 2.93 | 39.8 | 27.8 | 3.28 | 37.8  | 27.1 | 3.67 | 35.8  | 24.8 | 4.14 |
|        | 80     | 72     | 50.0 | 20.4 | 2.44 | 48.1 | 20.3 | 2.70 | 46.1 | 20.8 | 3.00 | 44.0 | 20.4 | 3.36 | 41.9  | 20.2 | 3.76 | 39.6  | 20.8 | 4.24 |
|        | 75     | 62     | 41.0 | 26.7 | 2.33 | 39.4 | 26.5 | 2.58 | 37.7 | 26.7 | 2.89 | 36.0 | 26.2 | 3.22 | 34.3  | 24.4 | 3.61 | 32.4  | 26.1 | 4.07 |
| 1400   | 80     | 62     | 42.5 | 34.5 | 2.34 | 40.8 | 35.5 | 2.61 | 39.2 | 34.9 | 2.90 | 37.5 | 34.7 | 3.24 | 36.2  | 34.6 | 3.64 | 34.6  | 34.2 | 4.11 |
|        | 80     | 67     | 46.2 | 31.1 | 2.39 | 44.4 | 30.8 | 2.65 | 42.6 | 30.0 | 2.95 | 40.6 | 29.4 | 3.29 | 38.6  | 28.8 | 3.69 | 36.5  | 28.2 | 4.15 |
|        | 80     | 72     | 51.1 | 21.4 | 2.46 | 49.0 | 22.4 | 2.72 | 47.0 | 21.7 | 3.02 | 44.8 | 21.6 | 3.37 | 42.6  | 21.9 | 3.78 | 40.3  | 22.1 | 4.26 |
|        | 75     | 62     | 42.0 | 28.2 | 2.34 | 40.4 | 28.9 | 2.60 | 38.6 | 28.2 | 2.90 | 36.8 | 27.9 | 3.23 | 35.0  | 27.9 | 3.62 | 33.1  | 28.8 | 4.08 |
| 1550   | 80     | 62     | 43.5 | 37.3 | 2.35 | 41.8 | 37.7 | 2.62 | 40.4 | 36.8 | 2.92 | 39.0 | 36.6 | 3.26 | 37.4  | 35.9 | 3.67 | 35.6  | 35.5 | 4.13 |
|        | 80     | 67     | 47.1 | 32.7 | 2.41 | 45.2 | 32.3 | 2.66 | 43.3 | 31.5 | 2.96 | 41.3 | 30.9 | 3.30 | 39.2  | 30.3 | 3.70 | 37.0  | 29.7 | 4.17 |
|        | 80     | 72     | 51.9 | 22.8 | 2.47 | 49.8 | 23.3 | 2.73 | 47.7 | 22.7 | 3.03 | 45.4 | 22.8 | 3.39 | 43.1  | 22.8 | 3.80 | 40.7  | 23.3 | 4.27 |
|        | 75     | 62     | 42.8 | 30.0 | 2.34 | 41.1 | 30.3 | 2.61 | 39.3 | 29.6 | 2.90 | 37.5 | 30.5 | 3.24 | 35.7  | 30.4 | 3.64 | 33.7  | 30.6 | 4.09 |

### P7RE-048K

| O.D.T. |        |        | 65°F |      |      | 75°F |      |      | 85°F |      |      | 95°F |      |      | 105°F |      |      | 115°F |      |      |
|--------|--------|--------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|-------|------|------|
| CFM    | E.D.B. | E.W.B. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C.  | S.C. | K.W. | T.C.  | S.C. | K.W. |
| 1450   | 80     | 62     | 49.8 | 38.9 | 2.99 | 47.9 | 38.7 | 3.30 | 45.9 | 39.1 | 3.65 | 43.8 | 38.4 | 4.04 | 41.6  | 40.3 | 4.48 | 39.2  | 38.0 | 4.98 |
|        | 80     | 67     | 54.3 | 36.9 | 3.01 | 52.1 | 36.1 | 3.34 | 49.8 | 35.5 | 3.69 | 47.2 | 34.4 | 4.05 | 44.8  | 33.5 | 4.52 | 42.2  | 30.5 | 5.02 |
|        | 80     | 72     | 59.8 | 25.4 | 3.04 | 57.3 | 25.3 | 3.38 | 54.7 | 25.8 | 3.74 | 52.0 | 25.2 | 4.14 | 49.2  | 24.9 | 4.58 | 46.2  | 25.5 | 5.09 |
|        | 75     | 62     | 49.3 | 33.3 | 2.98 | 47.4 | 33.0 | 3.30 | 45.3 | 33.2 | 3.64 | 43.1 | 32.5 | 4.03 | 40.8  | 30.1 | 4.47 | 38.4  | 32.2 | 4.97 |
| 1600   | 80     | 62     | 50.9 | 41.2 | 2.99 | 48.9 | 42.2 | 3.31 | 46.9 | 41.2 | 3.66 | 44.8 | 40.7 | 4.05 | 42.5  | 40.4 | 4.49 | 40.2  | 39.8 | 4.99 |
|        | 80     | 67     | 55.3 | 38.7 | 3.02 | 53.0 | 38.1 | 3.34 | 50.6 | 37.2 | 3.70 | 47.6 | 36.3 | 4.06 | 45.5  | 35.5 | 4.53 | 42.7  | 34.6 | 5.03 |
|        | 80     | 72     | 60.8 | 26.5 | 3.05 | 58.2 | 27.7 | 3.38 | 55.4 | 26.9 | 3.75 | 52.7 | 26.7 | 4.14 | 49.7  | 26.9 | 4.60 | 46.6  | 27.1 | 5.10 |
|        | 75     | 62     | 50.3 | 35.1 | 2.99 | 48.3 | 35.8 | 3.31 | 46.1 | 34.9 | 3.65 | 43.9 | 34.5 | 4.04 | 41.5  | 34.4 | 4.48 | 39.0  | 34.2 | 4.98 |
| 1750   | 80     | 62     | 51.9 | 43.9 | 3.00 | 50.0 | 44.3 | 3.32 | 47.9 | 43.1 | 3.67 | 45.7 | 42.5 | 4.06 | 43.4  | 41.7 | 4.50 | 41.2  | 41.0 | 5.01 |
|        | 80     | 67     | 56.2 | 40.5 | 3.02 | 53.8 | 39.9 | 3.35 | 51.3 | 38.9 | 3.70 | 48.4 | 38.0 | 4.09 | 46.1  | 37.1 | 4.54 | 43.4  | 36.4 | 5.05 |
|        | 80     | 72     | 61.6 | 28.3 | 3.05 | 58.9 | 28.8 | 3.39 | 56.1 | 28.0 | 3.75 | 53.1 | 28.1 | 4.15 | 50.2  | 28.0 | 4.61 | 47.1  | 28.3 | 5.10 |
|        | 75     | 62     | 51.1 | 37.2 | 2.99 | 49.1 | 37.5 | 3.31 | 46.9 | 36.6 | 3.66 | 44.6 | 36.4 | 4.05 | 42.1  | 36.0 | 4.48 | 39.6  | 36.0 | 4.98 |

### P7RE-X60K

| O.D.T. |        |        | 65°F |      |      | 75°F |      |      | 85°F |      |      | 95°F |      |      | 105°F |      |      | 115°F |      |      |
|--------|--------|--------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|-------|------|------|
| CFM    | E.D.B. | E.W.B. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C.  | S.C. | K.W. | T.C.  | S.C. | K.W. |
| 1450   | 80     | 62     | 57.4 | 42.3 | 3.49 | 55.4 | 42.1 | 3.86 | 53.3 | 42.7 | 4.29 | 51.0 | 42.1 | 4.77 | 48.5  | 44.6 | 5.34 | 45.8  | 42.2 | 5.99 |
|        | 80     | 67     | 62.6 | 40.5 | 3.54 | 60.3 | 39.8 | 3.91 | 57.9 | 39.2 | 4.34 | 55.4 | 38.2 | 4.83 | 52.6  | 37.1 | 5.40 | 49.5  | 33.5 | 6.06 |
|        | 80     | 72     | 68.9 | 28.1 | 3.60 | 66.4 | 28.0 | 3.98 | 63.7 | 28.7 | 4.41 | 60.8 | 28.1 | 4.91 | 57.6  | 27.7 | 5.49 | 54.0  | 28.3 | 6.19 |
|        | 75     | 62     | 57.0 | 36.7 | 3.49 | 55.0 | 36.4 | 3.86 | 52.8 | 36.6 | 4.28 | 50.6 | 35.9 | 4.77 | 48.0  | 33.3 | 5.33 | 45.3  | 35.6 | 5.98 |
| 1600   | 80     | 62     | 58.7 | 44.7 | 3.50 | 56.6 | 46.1 | 3.87 | 54.4 | 45.1 | 4.30 | 52.1 | 44.8 | 4.79 | 49.5  | 44.9 | 5.35 | 46.8  | 44.9 | 6.01 |
|        | 80     | 67     | 63.8 | 42.5 | 3.55 | 61.5 | 42.1 | 3.93 | 59.0 | 41.1 | 4.35 | 56.4 | 40.1 | 4.84 | 53.4  | 39.1 | 5.42 | 50.2  | 38.1 | 6.08 |
|        | 80     | 72     | 70.1 | 29.3 | 3.61 | 67.5 | 30.7 | 3.99 | 64.8 | 29.8 | 4.42 | 61.7 | 29.6 | 4.92 | 58.4  | 29.8 | 5.51 | 54.7  | 30.0 | 6.21 |
|        | 75     | 62     | 58.3 | 38.4 | 3.50 | 56.2 | 39.4 | 3.87 | 54.0 | 38.4 | 4.29 | 51.6 | 38.0 | 4.78 | 48.9  | 38.0 | 5.34 | 46.1  | 37.8 | 5.99 |
| 1750   | 80     | 62     | 59.8 | 47.7 | 3.51 | 57.7 | 48.4 | 3.89 | 55.5 | 47.4 | 4.31 | 53.1 | 47.3 | 4.80 | 50.5  | 47.0 | 5.37 | 47.7  | 46.9 | 6.03 |
|        | 80     | 67     | 64.9 | 44.5 | 3.56 | 62.5 | 44.0 | 3.94 | 60.0 | 42.7 | 4.36 | 57.2 | 41.9 | 4.86 | 54.3  | 40.9 | 5.43 | 50.9  | 39.9 | 6.10 |
|        | 80     | 72     | 71.2 | 31.1 | 3.62 | 68.5 | 31.9 | 4.00 | 65.6 | 31.0 | 4.43 | 62.5 | 31.1 | 4.93 | 59.1  | 31.0 | 5.52 | 55.1  | 31.4 | 6.22 |
|        | 75     | 62     | 59.2 | 40.7 | 3.51 | 57.1 | 41.2 | 3.88 | 54.8 | 40.2 | 4.30 | 52.4 | 40.0 | 4.79 | 49.7  | 39.7 | 5.36 | 46.7  | 39.7 | 6.01 |





#### GENERAL TERMS OF LIMITED WARRANTY

Nortek Global HVAC LLC will furnish a replacement for any part of this product which fails in normal use and service within the terms and conditions of the warranty.

For complete details of the Limited Warranty, including applicable terms and conditions, see your local installer or contact the Nortek Global HVAC LLC warranty department for a copy.

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