

## TECHNICAL SPECIFICATIONS

### Q7RD Series

#### Single Packaged Heat Pump, Single Phase

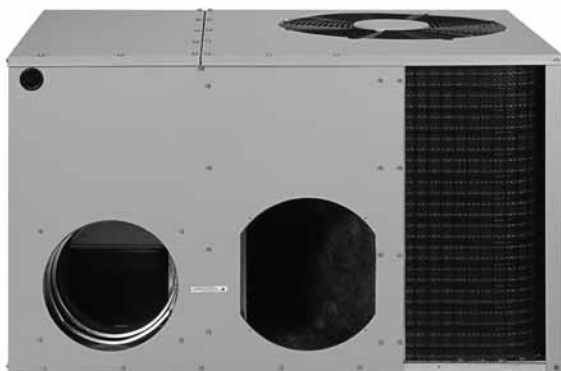
13 SEER, R-410A

2 thru 5 Ton Units

Cooling: 24,000 to 56,000 Btuh

Heating: 24,000 to 54,400 Btuh

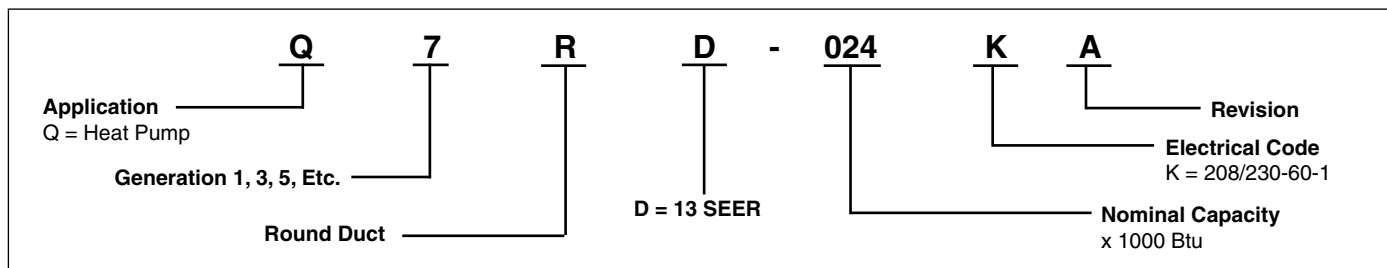
The Q7 Series single packaged heat pumps are high efficiency self contained cooling and heating units that can be installed on a slab. Units are ETL and ETLc listed.



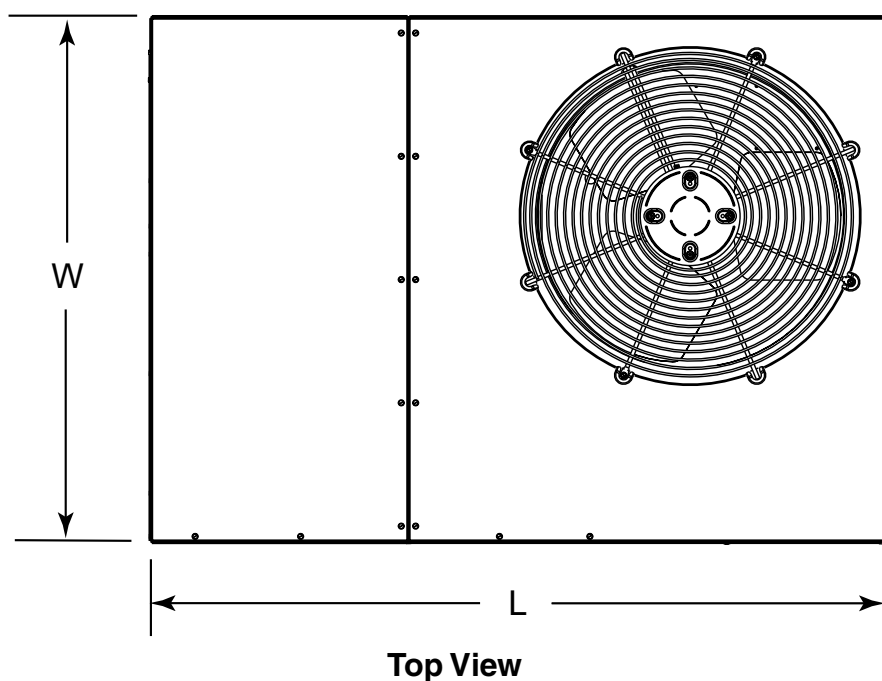
### FEATURES and BENEFITS

- **Quality Compressor:** State of the art compressor is standard equipment.
- **R-410A Refrigerant:** Earth friendly non-ozone depleting refrigerant.
- **Hi/Low Pressure Switches:** Ensure long compressor life.
- **Copper Tube / Aluminum Fin Coils:** Outdoor coils are designed to optimize heat transfer, minimize size and cost, and increase durability and reliability.
- **Anteater Evaporator Coil:** for increased resistance against formicary corrosion, the number one cause of coil leaks.
  - ~ The 2, 2.5 and 3 ton models include all-aluminum Anteater Micro-channel technology.
  - ~ The 3.5, 4 and 5 ton models include Anteater™ tubing technology.
- **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 Q7 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 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.
- **Easy access:** to the evaporator coil for cleaning and general maintenance.
- **Removable Top Grille Assembly:** Allows ease of service to the fan motor.
- **Time/Temperature Defrost:** a reliable, industry standard control offers various time settings to meet any type climate.
- **Five Minute Restart Time Delay:** when the units shuts down, a five minute delay keeps the unit from restarting, eliminating the highest cause of compressor failure.
- **Liquid Line Filter Driers:** Factory installed at a convenient location for service.
- **Accessible Service Valves:** simplify servicing of the refrigeration system.
- **Suction Accumulator:** provides protection from liquid flood back and future compressor failures.
- **Permanently Lubricated Condenser Motor:** A heavy duty PSC motor for long lasting reliability and quiet operation.
- **Low voltage Transformer:** Includes 3 Amp fuse to protect low voltage circuit.
- **Drain Trap Included:** design optimizes drainage capabilities.
- **Outdoor thermostat:** is standard equipment.
- **Optional Electric Heat:** Field installed 5 – 20 KW.

# MODEL IDENTIFICATION CODE

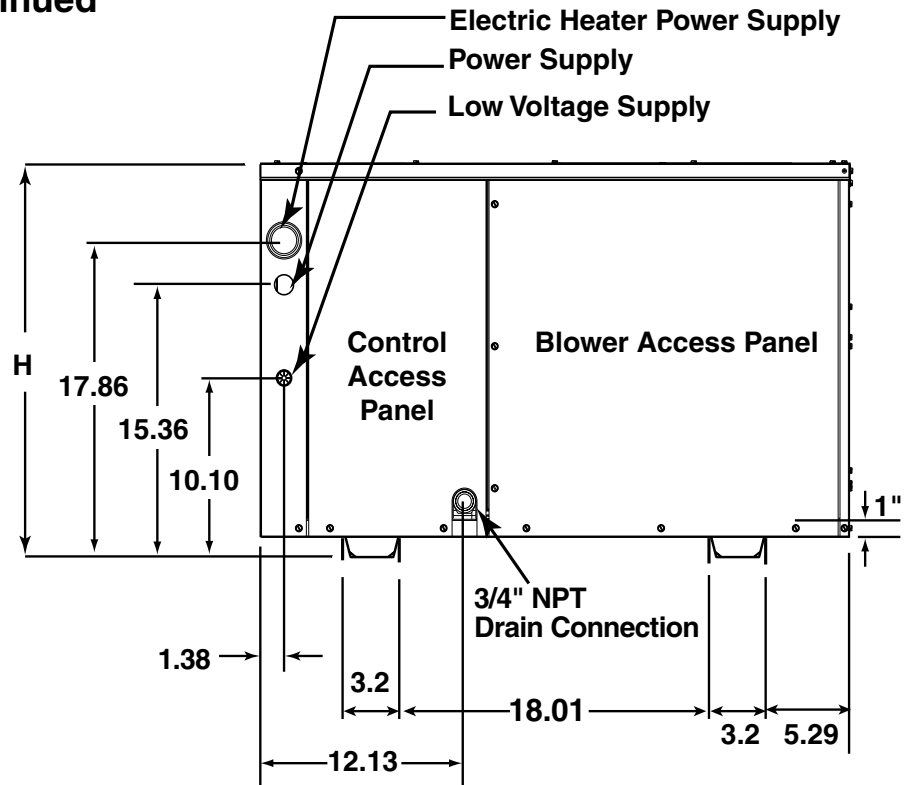


## DIMENSIONS



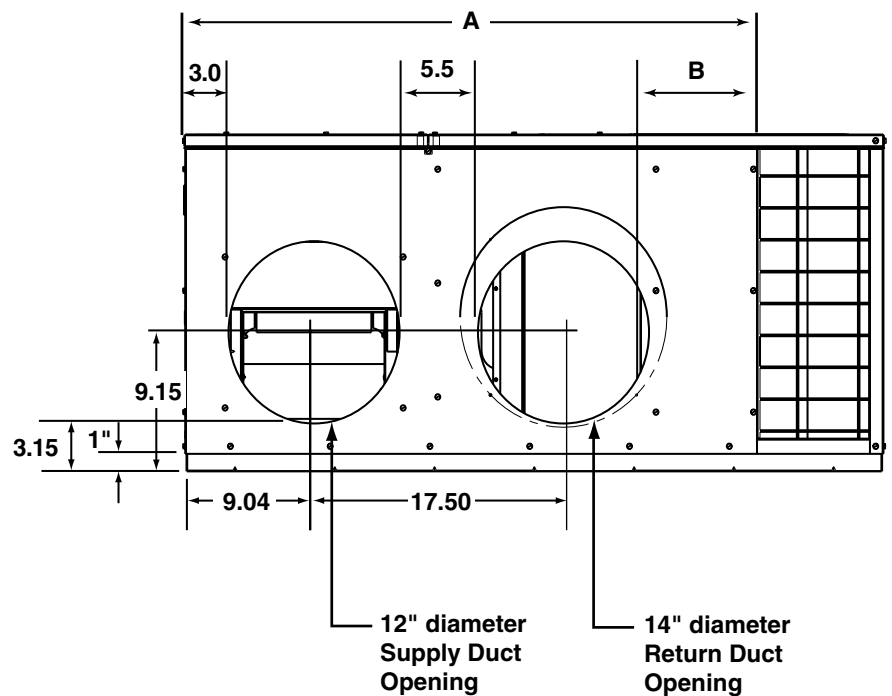
| Model Number<br>Q7RD- | (L)<br>Length | (W)<br>Width | (H)<br>Height | A     | B    |
|-----------------------|---------------|--------------|---------------|-------|------|
| 024K                  | 49            | 35           | 30.2          | 40.15 | 7.61 |
| 030K                  | 49            | 35           | 30.2          | 40.15 | 7.61 |
| 036K                  | 49            | 35           | 30.2          | 35.02 | 2.48 |
| 042K                  | 49            | 35           | 30.2          | 35.02 | 2.48 |
| 048K                  | 49            | 35           | 34.2          | 35.02 | 2.48 |
| 060K                  | 49            | 35           | 38.2          | 35.02 | 2.48 |

## DIMENSIONS Continued



Side View

| Model Number<br>Q7RD- | Return<br>Diameter (in) |
|-----------------------|-------------------------|
| 024K                  | 14                      |
| 030K                  | 14                      |
| 036K                  | 14                      |
| 042K                  | 14                      |
| 048K                  | 14                      |
| 060K                  | 14                      |



Back (Duct) View

# PHYSICAL SPECIFICATIONS

## Q7RD Models

| Model No. Q7RD-                              | 024K       | 030K       | 036K       | 042K       | 048K       | 060K       |
|----------------------------------------------|------------|------------|------------|------------|------------|------------|
| <b>System Heating and Cooling Capacities</b> |            |            |            |            |            |            |
| Cooling Btuh                                 | 24,000     | 29,000     | 34,600     | 40,500     | 46,000     | 56,000     |
| SEER                                         | 13         | 13         | 13         | 13         | 13         | 13         |
| EER                                          | 11.0       | 11.0       | 11.0       | 11.0       | 11.0       | 10.8       |
| Heating Btuh                                 | 24,000     | 28,400     | 34,600     | 40,500     | 44,500     | 54,500     |
| HSPF                                         | 7.7        | 7.7        | 7.7        | 7.7        | 7.7        | 7.7        |
| <b>Electric Rating — 60 Hz (a)</b>           |            |            |            |            |            |            |
| Operating Voltage Range                      | 187 - 253  | 187 - 253  | 187 - 253  | 187 - 253  | 187 - 253  | 187 - 253  |
| Min. Circuit Ampacity (a)                    | 16.9       | 17.5       | 23.7       | 29.3       | 34.2       | 39.9       |
| Field Wire Size — AWG (a)                    | 12         | 12         | 10         | 8          | 8          | 6          |
| Delay Fuse — Max. (b)                        | 25         | 25         | 35         | 45         | 50         | 60         |
| Total Unit — AMPS                            | 14.5       | 15.0       | 19.9       | 24.8       | 28.7       | 33.3       |
| <b>Compressor</b>                            |            |            |            |            |            |            |
| Volts                                        | 208 - 230  | 208 - 230  | 208 - 230  | 208 - 230  | 208 - 230  | 208 - 230  |
| Rated Load Amps                              | 9.6        | 10.1       | 15.0       | 17.9       | 21.8       | 26.4       |
| Lock Rotor Amps                              | 60.5       | 60.0       | 88         | 112        | 117        | 134        |
| <b>Condenser Motor</b>                       |            |            |            |            |            |            |
| Fan Motor — HP - RPM                         | 1/8 - 1100 | 1/8 - 1100 | 1/4 - 1100 | 1/4 - 1100 | 1/4 - 1100 | 1/3 - 1100 |
| Fan Motor — Amps                             | 1.1        | 1.1        | 1.5        | 1.5        | 1.5        | 1.5        |
| Fan Dia. — CFM                               | 20" - 2800 | 20 - 2800  | 20" - 2800 | 20" - 3000 | 20" - 3000 | 20" - 3400 |
| <b>Evaporator Motor</b>                      |            |            |            |            |            |            |
| Blower Motor — HP - ECM                      | 1/2        | 1/2        | 1/2        | 3/4        | 3/4        | 3/4        |
| Blower Motor — Amps                          | 3.8        | 3.8        | 3.8        | 5.4        | 5.4        | 5.4        |
| <b>Refrigerant (R410-A) — Oz.</b>            |            |            |            |            |            |            |
|                                              | 144        | 138        | 144        | 132        | 179        | 200        |
| <b>Shipping Weight -- Lbs.</b>               |            |            |            |            |            |            |
|                                              | 295        | 306        | 308        | 355        | 385        | 401        |
| <b>Sound Ratings</b>                         |            |            |            |            |            |            |
|                                              | 77         | 77         | 77         | 78         | 79         | 79         |

- (a) Amperage and wire size based on refrigeration system only with 60° C wire, 50 ft. length. See Electrical Data tables for supplemental electric heaters. Refer to National Electric Code for additional derating factors for field installed conductors.
- (b) Use time delay fuse or "HACR" type circuit breaker.

## ACCESSORIES

| Description                           | Part Number |
|---------------------------------------|-------------|
| 4-Pole single circuit adaptor         | 913350      |
| 6-Pole single circuit adaptor         | 913556      |
| Circuit Breaker Single Phase (2-pole) | 913554      |
| Extreme high Wind Kit - Ground Mount  | 903694      |
| Duct collars - 12"                    | 917701      |
| Duct collars - 14"                    | 917702      |

| 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.

## AIR FLOW DATA

| Model Number | Motor Tap | External Static Pressure Drop (in WC) |      |      |      |      |      |      |      |
|--------------|-----------|---------------------------------------|------|------|------|------|------|------|------|
|              |           | 0.1                                   | 0.2  | 0.3  | 0.4  | 0.5  | 0.6  | 0.7  | 0.8  |
| 024K         | T1*       | 888                                   | 843  | 800  | 744  | 689  | 640  | 573  | 522  |
|              | T2        | 1139                                  | 1101 | 1060 | 1017 | 964  | 919  | 865  | 811  |
|              | T3**      | 1279                                  | 1235 | 1197 | 1162 | 1115 | 1073 | 1021 | 977  |
|              | T4        | 1385                                  | 1347 | 1313 | 1275 | 1234 | 1196 | 1153 | 1106 |
|              | T5        | 1567                                  | 1531 | 1500 | 1467 | 1427 | 1394 | 1362 | 1325 |
| 030K         | T1        | 888                                   | 843  | 800  | 744  | 689  | 640  | 573  | 522  |
|              | T2*       | 1139                                  | 1101 | 1060 | 1017 | 964  | 919  | 865  | 811  |
|              | T3**      | 1279                                  | 1235 | 1197 | 1162 | 1115 | 1073 | 1021 | 977  |
|              | T4        | 1385                                  | 1347 | 1313 | 1275 | 1234 | 1196 | 1153 | 1106 |
|              | T5        | 1567                                  | 1531 | 1500 | 1467 | 1427 | 1394 | 1362 | 1325 |
| 036K         | T1        | 1139                                  | 1101 | 1060 | 1017 | 964  | 919  | 865  | 811  |
|              | T2        | 1279                                  | 1235 | 1197 | 1162 | 1115 | 1073 | 1021 | 977  |
|              | T3*       | 1399                                  | 1353 | 1324 | 1281 | 1247 | 1211 | 1167 | 1115 |
|              | T4**      | 1474                                  | 1430 | 1392 | 1360 | 1318 | 1289 | 1247 | 1197 |
|              | T5        | 1623                                  | 1585 | 1529 | 1519 | 1460 | 1447 | 1407 | 1364 |
| 042K         | T1        | 1326                                  | 1290 | 1251 | 1204 | 1167 | 1116 | 1083 | 1024 |
|              | T2**      | 1430                                  | 1383 | 1345 | 1305 | 1257 | 1211 | 1174 | 1114 |
|              | T3*       | 1562                                  | 1521 | 1479 | 1447 | 1400 | 1359 | 1311 | 1265 |
|              | T4        | 1658                                  | 1598 | 1578 | 1537 | 1487 | 1458 | 1413 | 1368 |
|              | T5        | 1774                                  | 1728 | 1684 | 1647 | 1617 | 1594 | 1552 | 1509 |
| 048K         | T1**      | 1430                                  | 1383 | 1345 | 1305 | 1257 | 1211 | 1174 | 1114 |
|              | T2        | 1562                                  | 1521 | 1479 | 1447 | 1400 | 1359 | 1311 | 1265 |
|              | T3*       | 1658                                  | 1598 | 1578 | 1537 | 1487 | 1458 | 1413 | 1368 |
|              | T4        | 1774                                  | 1728 | 1684 | 1647 | 1617 | 1594 | 1552 | 1509 |
|              | T5        | 1951                                  | 1908 | 1883 | 1851 | 1823 | 1786 | 1750 | 1717 |
| 060K         | T1        | 1140                                  | 1094 | 1051 | 1005 | 954  | 901  | 850  | 802  |
|              | T2        | 1375                                  | 1340 | 1310 | 1252 | 1235 | 1172 | 1160 | 1108 |
|              | T3 *      | 1691                                  | 1659 | 1623 | 1586 | 1544 | 1504 | 1468 | 1424 |
|              | T4 **     | 1722                                  | 1692 | 1653 | 1615 | 1579 | 1539 | 1498 | 1454 |
|              | T5        | 1841                                  | 1804 | 1771 | 1731 | 1703 | 1659 | 1614 | 1578 |

### NOTES:

\* Denotes Air Flow Setting for cooling & heating

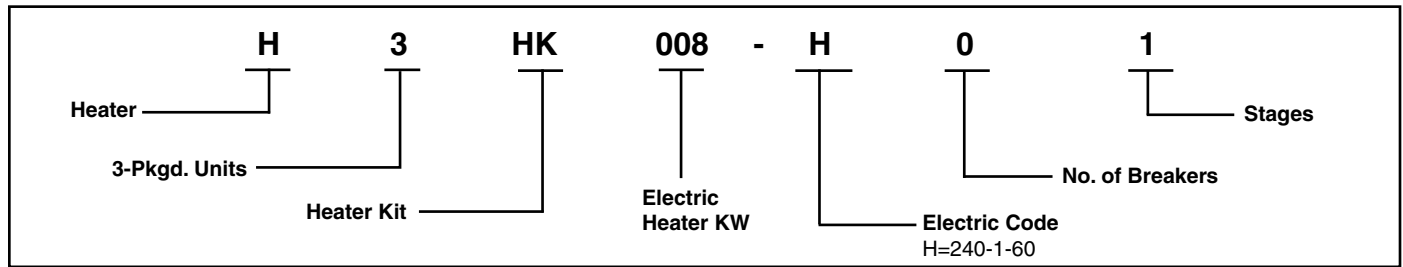
\*\* Denotes Air Flow setting for electric heating (10 KW)

Airflow performance is with a dry coil.

## ELECTRIC HEAT SELECTION

| Model Number | Heater kW      | MCA   | MOP | Circuit A (Compressor,<br>Blower & Fan) |     | Circuit B<br>(Heater Only) |     | Circuit C<br>(Heater Only) |     |
|--------------|----------------|-------|-----|-----------------------------------------|-----|----------------------------|-----|----------------------------|-----|
|              |                |       |     | MCA                                     | MOP | MCA                        | MOP | MCA                        | MOP |
| Q7RD-024K    | 0              | 16.9  | 25  | -                                       | -   | -                          | -   | -                          | -   |
|              | 5              | 41.9  | 45  | -                                       | -   | -                          | -   | -                          | -   |
|              | 8              | 56.5  | 60  | 16.9                                    | 25  | 39.6                       | 40  | -                          | -   |
|              | 10             | 66.9  | 70  | 16.9                                    | 25  | 50                         | 60  | -                          | -   |
| Q7RD-030K    | 0              | 17.5  | 25  | -                                       | -   | -                          | -   | -                          | -   |
|              | 5              | 42.5  | 45  | -                                       | -   | -                          | -   | -                          | -   |
|              | 8              | 57.1  | 60  | 17.5                                    | 25  | 39.6                       | 40  | -                          | -   |
|              | 10             | 67.5  | 70  | 17.5                                    | 25  | 50                         | 60  | -                          | -   |
|              | 15             | 92.5  | 100 | 42.5                                    | 45  | 50                         | 60  | -                          | -   |
| Q7RD-036K    | 0              | 23.7  | 35  | -                                       | -   | -                          | -   | -                          | -   |
|              | 5              | 48.7  | 50  | -                                       | -   | -                          | -   | -                          | -   |
|              | 8              | 63.2  | 70  | 23.7                                    | 35  | 39.6                       | 40  | -                          | -   |
|              | 10             | 73.7  | 80  | 23.7                                    | 35  | 50                         | 60  | -                          | -   |
|              | 15             | 98.7  | 100 | 48.7                                    | 50  | 50                         | 60  | -                          | -   |
| Q7RD-042K    | 0              | 29.3  | 45  | -                                       | -   | -                          | -   | -                          | -   |
|              | 5              | 54.3  | 60  | -                                       | -   | -                          | -   | -                          | -   |
|              | 8              | 68.9  | 70  | 29.3                                    | 45  | 39.6                       | 40  | -                          | -   |
|              | 10             | 79.3  | 80  | 29.3                                    | 45  | 50                         | 60  | -                          | -   |
|              | 15             | 104.3 | 110 | 54.3                                    | 60  | 50                         | 60  | -                          | -   |
|              | 20             | 129.3 | 150 | -                                       | -   | -                          | -   | -                          | -   |
|              | 20 (3 circuit) | -     | -   | 29.3                                    | 45  | 50.0                       | 60  | 50                         | 60  |
| Q7RD-048K    | 0              | 34.2  | 50  | -                                       | -   | -                          | -   | -                          | -   |
|              | 5              | 59.2  | 70  | -                                       | -   | -                          | -   | -                          | -   |
|              | 8              | 73.7  | 80  | 34.2                                    | 50  | 39.6                       | 40  | -                          | -   |
|              | 10             | 84.2  | 90  | 34.2                                    | 50  | 50                         | 60  | -                          | -   |
|              | 15             | 109.2 | 110 | 59.2                                    | 70  | 50                         | 60  | -                          | -   |
|              | 20             | 134.2 | 150 | -                                       | -   | -                          | -   | -                          | -   |
|              | 20 (3 circuit) | -     | -   | 34.2                                    | 50  | 50                         | 60  | 50                         | 60  |
| Q7RD-060K    | 0              | 39.9  | 50  | -                                       | -   | -                          | -   | -                          | -   |
|              | 5              | 64.9  | 70  | -                                       | -   | -                          | -   | -                          | -   |
|              | 8              | 79.5  | 80  | 39.9                                    | 50  | 39.6                       | 40  | -                          | -   |
|              | 10             | 89.9  | 90  | 39.9                                    | 50  | 50                         | 60  | -                          | -   |
|              | 15             | 114.9 | 125 | 64.9                                    | 70  | 50                         | 60  | -                          | -   |
|              | 20             | 139.9 | 150 | -                                       | -   | -                          | -   | -                          | -   |
|              | 20 (3 circuit) | -     | -   | 39.9                                    | 50  | 50                         | 60  | 50                         | 60  |

## MODEL IDENTIFICATION CODE



| Q7RD Heater Kit Application Matrix |            |                  |                        |          |
|------------------------------------|------------|------------------|------------------------|----------|
| Tonnage                            | Nominal kW | Heater Kit Model | Heater Kit Part Number | Breakers |
| 024K                               | 5          | H3HK005H-01B     | 917166B                | None     |
|                                    | 8          | H3HK008H-01B     | 917167B                | None     |
|                                    | 10         | H3HK010H-01B     | 917168B                | 2        |
| 030K                               | 5          | H3HK005H-01B     | 917166B                | None     |
|                                    | 8          | H3HK008H-01B     | 917167B                | 2        |
|                                    | 10         | H3HK010H-01B     | 917168B                | 2        |
|                                    | 15         | H3HK015H-01B     | 917169B                | 2        |
|                                    | 15         | H3HK015H-21B     | 917172B                | None     |
| 036K                               | 5          | H3HK005H-01B     | 917166B                | None     |
|                                    | 8          | H3HK008H-01B     | 917167B                | 2        |
|                                    | 10         | H3HK010H-01B     | 917168B                | 2        |
|                                    | 15         | H3HK015H-01B     | 917169B                | 2        |
|                                    | 15         | H3HK015H-21B     | 917172B                | None     |
| 042K                               | 5          | H3HK005H-01B     | 917166B                | None     |
|                                    | 8          | H3HK008H-01B     | 917167B                | 2        |
|                                    | 10         | H3HK010H-01B     | 917168B                | 2        |
|                                    | 15         | H3HK015H-01B     | 917169B                | 2        |
|                                    | 15         | H3HK015H-21B     | 917172B                | None     |
|                                    | 20         | H3HK020H-01B     | 917170B                | 3        |
|                                    | 20         | H3HK020H-21B     | 917173B                | 1        |
| 048K                               | 5          | H3HK005H-01B     | 917166B                | 2        |
|                                    | 8          | H3HK008H-01B     | 917167B                | 2        |
|                                    | 10         | H3HK010H-01B     | 917168B                | 2        |
|                                    | 15         | H3HK015H-01B     | 917169B                | 2        |
|                                    | 15         | H3HK015H-21B     | 917172B                | None     |
|                                    | 20         | H3HK020H-01B     | 917170B                | 3        |
|                                    | 20         | H3HK020H-21B     | 917173B                | 1        |
| 060K                               | 5          | H3HK005H-01B     | 917166B                | 2        |
|                                    | 8          | H3HK008H-01B     | 917167B                | 2        |
|                                    | 10         | H3HK010H-01B     | 917168B                | 2        |
|                                    | 15         | H3HK015H-01B     | 917169B                | 3        |
|                                    | 15         | H3HK015H-21B     | 917172B                | 1        |
|                                    | 20         | H3HK020H-21B     | 917170B                | 3        |
|                                    | 20         | H3HK020H-01B     | 917173B                | 1        |

# HEAT PUMP COOLING EXPANDED RATINGS

T.C. Total Cooling Capacity  
S.C. Sensible Cooling Capacity  
K.W. Total Kilowatts

## Q7RD-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. |
| 700   | 80     | 62     | 25.3 | 20   | 1.6  | 24.2 | 19.7 | 1.75 | 22.8 | 19.3 | 1.92 | 21.1 | 18.5 | 2.12 | 19.2  | 17.5 | 2.34 | 17    | 16.3 | 2.59 |
|       | 80     | 67     | 26.8 | 15.8 | 1.6  | 26   | 15.9 | 1.75 | 24.9 | 15.8 | 1.92 | 23.5 | 15.3 | 2.12 | 21.9  | 14.6 | 2.34 | 20    | 13.7 | 2.59 |
|       | 80     | 72     | 27.9 | 11.2 | 1.6  | 27.3 | 11.6 | 1.75 | 26.5 | 11.8 | 1.92 | 25.5 | 11.6 | 2.12 | 24.2  | 11.3 | 2.34 | 22.6  | 10.6 | 2.59 |
|       | 75     | 62     | 25.1 | 15.9 | 1.6  | 23.8 | 15.9 | 1.75 | 22.3 | 15.7 | 1.92 | 20.5 | 15.2 | 2.11 | 18.5  | 14.4 | 2.34 | 16.2  | 13.4 | 2.58 |
| 800   | 80     | 62     | 26.1 | 21.3 | 1.64 | 25   | 21.1 | 1.78 | 23.6 | 20.7 | 1.96 | 21.9 | 19.9 | 2.15 | 20    | 18.9 | 2.37 | 17.8  | 17.7 | 2.62 |
|       | 80     | 67     | 27.4 | 16.8 | 1.64 | 26.6 | 16.9 | 1.79 | 25.5 | 16.7 | 1.96 | 24.1 | 16.3 | 2.15 | 22.5  | 15.6 | 2.38 | 20.6  | 14.6 | 2.62 |
|       | 80     | 72     | 28.2 | 11.8 | 1.64 | 27.7 | 12.2 | 1.78 | 26.9 | 12.3 | 1.96 | 25.9 | 12.2 | 2.15 | 24.6  | 11.8 | 2.37 | 23    | 11.1 | 2.62 |
|       | 75     | 62     | 25.7 | 17.1 | 1.63 | 24.5 | 17.1 | 1.78 | 22.9 | 16.9 | 1.95 | 21.1 | 16.4 | 2.15 | 19.1  | 15.6 | 2.37 | 16.8  | 14.6 | 2.62 |
| 900   | 80     | 62     | 26.7 | 22.6 | 1.71 | 25.6 | 22.3 | 1.85 | 24.2 | 21.9 | 2.03 | 22.5 | 21.1 | 2.22 | 20.6  | 20.1 | 2.44 | 18.4  | 18.4 | 2.69 |
|       | 80     | 67     | 27.8 | 17.6 | 1.71 | 27   | 17.7 | 1.85 | 25.9 | 17.5 | 2.03 | 24.5 | 17.1 | 2.22 | 22.9  | 16.4 | 2.45 | 21    | 15.4 | 2.69 |
|       | 80     | 72     | 28.4 | 12.1 | 1.71 | 27.9 | 12.5 | 1.85 | 27.1 | 12.7 | 2.03 | 26.1 | 12.5 | 2.22 | 24.8  | 12.1 | 2.44 | 23.2  | 11.5 | 2.69 |
|       | 75     | 62     | 26.1 | 18.1 | 1.7  | 24.9 | 18.1 | 1.85 | 23.3 | 17.9 | 2.02 | 21.6 | 17.4 | 2.22 | 19.5  | 16.7 | 2.44 | 17.2  | 15.6 | 2.69 |

## Q7RD-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. |
| 950   | 80     | 62     | 31.5 | 26.9 | 1.85 | 29.0 | 25.7 | 2.07 | 26.5 | 24.6 | 2.29 | 24.0 | 23.4 | 2.50 | 21.5  | 22.2 | 2.71 | 18.2  | 17.8 | 2.99 |
|       | 80     | 67     | 32.5 | 20.2 | 1.86 | 30.8 | 19.9 | 2.08 | 29.1 | 19.5 | 2.32 | 27.4 | 19.2 | 2.53 | 25.7  | 18.9 | 2.75 | 20.0  | 15.3 | 3.03 |
|       | 80     | 72     | 33.1 | 15.1 | 1.87 | 31.7 | 14.6 | 2.09 | 30.3 | 14.1 | 2.32 | 28.9 | 13.6 | 2.54 | 27.5  | 13.1 | 2.76 | 23.3  | 11.6 | 3.07 |
|       | 75     | 62     | 29.8 | 20.5 | 1.85 | 27.6 | 19.8 | 2.07 | 25.4 | 18.8 | 2.28 | 23.2 | 17.8 | 2.49 | 21.1  | 16.9 | 2.70 | 17.0  | 14.8 | 2.99 |
| 1050  | 80     | 62     | 32.4 | 28.5 | 1.85 | 29.9 | 27.4 | 2.10 | 27.5 | 26.4 | 2.34 | 25.0 | 25.3 | 2.53 | 22.5  | 24.2 | 2.72 | 19.1  | 18.6 | 3.03 |
|       | 80     | 67     | 33.0 | 20.6 | 1.89 | 31.4 | 20.6 | 2.11 | 29.7 | 20.6 | 2.33 | 28.7 | 20.6 | 2.55 | 26.5  | 20.6 | 2.77 | 20.4  | 16.3 | 3.06 |
|       | 80     | 72     | 33.6 | 15.3 | 1.89 | 32.2 | 14.9 | 2.11 | 30.9 | 14.6 | 2.33 | 29.5 | 14.2 | 2.55 | 28.1  | 13.8 | 2.77 | 23.7  | 12.2 | 3.09 |
|       | 75     | 62     | 31.6 | 22.4 | 1.85 | 29.2 | 21.2 | 2.12 | 26.6 | 20.1 | 2.33 | 24.0 | 19.0 | 2.51 | 21.4  | 17.9 | 2.75 | 17.3  | 16.0 | 3.03 |
| 1150  | 80     | 62     | 33.0 | 29.5 | 1.90 | 30.7 | 28.2 | 2.13 | 28.3 | 27.0 | 2.36 | 26.0 | 25.7 | 2.54 | 23.7  | 24.4 | 2.76 | 19.5  | 19.0 | 3.04 |
|       | 80     | 67     | 33.3 | 20.9 | 1.90 | 31.7 | 21.1 | 2.14 | 30.1 | 21.2 | 2.34 | 28.9 | 21.4 | 2.56 | 26.9  | 21.6 | 2.78 | 20.8  | 16.8 | 3.07 |
|       | 80     | 72     | 34.3 | 16.2 | 1.90 | 32.9 | 15.6 | 2.14 | 34.4 | 15.0 | 2.35 | 30.0 | 14.4 | 2.57 | 28.6  | 13.9 | 2.79 | 24.0  | 12.4 | 3.10 |
|       | 75     | 62     | 32.2 | 23.1 | 1.86 | 29.7 | 24.2 | 2.14 | 27.0 | 25.1 | 2.35 | 24.5 | 19.6 | 2.52 | 21.9  | 18.9 | 2.76 | 17.6  | 16.3 | 3.04 |

## Q7RD-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. |
| 1175  | 80     | 62     | 41.0 | 35.2 | 2.23 | 38.4 | 34.7 | 2.56 | 35.2 | 32.8 | 2.83 | 31.2 | 29.7 | 3.08 | 28.0  | 27.3 | 3.50 | 24.7  | 24.6 | 3.74 |
|       | 80     | 67     | 45.2 | 29.5 | 2.23 | 42.1 | 28.8 | 2.57 | 38.4 | 27.1 | 2.86 | 34.5 | 24.5 | 3.08 | 30.6  | 22.9 | 3.53 | 26.7  | 20.9 | 3.78 |
|       | 80     | 72     | 48.9 | 23.2 | 2.24 | 45.8 | 21.9 | 2.59 | 42.2 | 20.6 | 2.89 | 38.3 | 18.8 | 3.15 | 34.2  | 17.4 | 3.60 | 29.7  | 15.1 | 3.87 |
|       | 75     | 62     | 40.7 | 29.2 | 2.25 | 37.9 | 28.3 | 2.54 | 34.3 | 24.8 | 2.82 | 30.7 | 23.9 | 3.02 | 26.8  | 23.1 | 3.47 | 23.0  | 20.7 | 3.71 |
| 1275  | 80     | 62     | 41.6 | 36.5 | 2.29 | 38.9 | 35.3 | 2.66 | 35.6 | 33.4 | 2.92 | 32.0 | 30.9 | 3.10 | 28.7  | 27.5 | 3.62 | 25.4  | 24.9 | 3.80 |
|       | 80     | 67     | 45.8 | 30.5 | 2.27 | 42.5 | 29.6 | 2.67 | 38.8 | 27.8 | 2.95 | 34.7 | 25.4 | 3.12 | 30.8  | 23.1 | 3.62 | 26.9  | 21.6 | 3.84 |
|       | 80     | 72     | 49.4 | 23.3 | 2.29 | 46.1 | 22.3 | 2.69 | 42.7 | 21.0 | 2.98 | 38.6 | 19.2 | 3.20 | 34.5  | 17.5 | 3.70 | 30.4  | 16.0 | 3.93 |
|       | 75     | 62     | 41.4 | 30.0 | 2.27 | 38.2 | 29.2 | 2.63 | 34.6 | 27.4 | 2.91 | 31.1 | 24.8 | 3.08 | 27.2  | 23.4 | 3.57 | 23.1  | 21.3 | 3.76 |
| 1375  | 80     | 62     | 42.1 | 37.3 | 2.39 | 39.4 | 36.4 | 2.66 | 36.2 | 34.2 | 2.93 | 32.4 | 31.5 | 3.21 | 29.5  | 28.6 | 3.44 | 25.9  | 25.1 | 3.92 |
|       | 80     | 67     | 46.2 | 31.3 | 2.37 | 43.0 | 29.8 | 2.66 | 39.2 | 28.2 | 2.96 | 35.0 | 26.0 | 3.26 | 31.4  | 23.6 | 3.47 | 26.9  | 22.5 | 3.93 |
|       | 80     | 72     | 49.6 | 23.7 | 2.38 | 47.0 | 22.7 | 2.69 | 43.3 | 21.3 | 2.98 | 39.2 | 19.7 | 3.30 | 35.1  | 17.9 | 3.55 | 30.8  | 15.9 | 4.03 |
|       | 75     | 62     | 41.6 | 31.0 | 2.37 | 38.5 | 29.4 | 2.64 | 35.5 | 27.7 | 2.93 | 31.3 | 25.6 | 3.19 | 27.9  | 24.4 | 3.41 | 23.3  | 21.7 | 3.88 |

## Q7RD-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. |
| 1350  | 80     | 62     | 43.2 | 38.6 | 2.50 | 41.5 | 38.2 | 2.75 | 39.7 | 37.9 | 3.04 | 37.7 | 36.7 | 3.39 | 35.6  | 35.6 | 3.79 | 33.5  | 33.5 | 4.26 |
|       | 80     | 67     | 46.6 | 32.1 | 2.55 | 44.7 | 31.4 | 2.80 | 42.7 | 30.6 | 3.09 | 40.4 | 29.7 | 3.44 | 38.0  | 28.8 | 3.85 | 35.3  | 27.8 | 4.32 |
|       | 80     | 72     | 50.5 | 25.4 | 2.60 | 48.4 | 24.7 | 2.86 | 46.2 | 23.9 | 3.17 | 43.8 | 23.1 | 3.53 | 41.0  | 22.2 | 3.94 | 38.2  | 21.2 | 4.42 |
|       | 75     | 62     | 42.9 | 32.5 | 2.50 | 41.2 | 31.8 | 2.75 | 39.3 | 31.0 | 3.04 | 37.2 | 30.1 | 3.38 | 35.0  | 29.1 | 3.78 | 32.5  | 28.0 | 4.24 |
| 1450  | 80     | 62     | 43.9 | 40.2 | 2.51 | 42.2 | 40.1 | 2.76 | 40.3 | 39.3 | 3.06 | 38.3 | 38.3 | 3.40 | 36.3  | 36.3 | 3.80 | 34.1  | 34.1 | 4.28 |
|       | 80     | 67     | 47.2 | 33.4 | 2.55 | 45.3 | 32.6 | 2.81 | 43.2 | 31.8 | 3.10 | 40.9 | 30.9 | 3.45 | 38.4  | 30.0 | 3.86 | 35.7  | 29.0 | 4.33 |
|       | 80     | 72     | 51.0 | 26.2 | 2.61 | 48.9 | 25.5 | 2.87 | 46.6 | 24.7 | 3.18 | 44.1 | 23.9 | 3.54 | 41.4  | 23.0 | 3.95 | 38.5  | 22.0 | 4.43 |
|       | 75     | 62     | 43.5 | 33.8 | 2.51 | 41.7 | 33.0 | 2.76 | 39.8 | 32.2 | 3.05 | 37.7 | 31.3 | 3.39 | 35.4  | 30.3 | 3.79 | 32.9  | 29.2 | 4.24 |
| 1550  | 80     | 62     | 44.5 | 42.0 | 2.52 | 42.8 | 41.4 | 2.77 | 40.9 | 40.9 | 3.06 | 39.0 | 39.0 | 3.41 | 37.0  | 37.0 | 3.82 | 34.7  | 34.7 | 4.30 |
|       | 80     | 67     | 47.7 | 34.6 | 2.56 | 45.7 | 33.9 | 2.81 | 43.6 | 33.0 | 3.11 | 41.3 | 32.2 | 3.46 | 38.7  | 31.2 | 3.87 | 36.0  | 30.1 | 4.34 |
|       | 80     | 72     | 51.4 | 27.0 | 2.62 | 49.3 | 26.3 | 2.88 | 47.0 | 25.5 | 3.19 | 44.5 | 24.7 | 3.55 | 41.8  | 23.8 | 3.96 | 38.8  | 22.8 | 4.44 |
|       | 75     | 62     | 44.0 | 35.0 | 2.52 | 42.2 | 34.3 | 2.76 | 40.2 | 33.4 | 3.06 | 38.1 | 32.5 | 3.40 | 35.7  | 31.5 | 3.80 | 33.2  | 30.3 | 4.25 |

# HEAT PUMP COOLING EXPANDED RATINGS (CONTINUED)

## Q7RD-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. |
| 1400  | 80     | 62     | 48.4 | 41.8 | 3.06 | 46.6 | 41.3 | 3.38 | 44.6 | 41.1 | 3.74 | 42.4 | 39.9 | 4.15 | 40.0  | 39.0 | 4.65 | 37.3  | 37.3 | 5.21 |
|       | 80     | 67     | 52.2 | 35.2 | 3.10 | 50.3 | 34.2 | 3.40 | 48.1 | 33.3 | 3.76 | 45.6 | 32.3 | 4.18 | 42.9  | 31.3 | 4.67 | 40.0  | 30.1 | 5.23 |
|       | 80     | 72     | 56.8 | 28.0 | 3.12 | 54.6 | 27.2 | 3.44 | 52.1 | 26.4 | 3.79 | 49.3 | 25.5 | 4.21 | 46.3  | 24.5 | 4.69 | 43.1  | 23.3 | 5.26 |
|       | 75     | 62     | 48.1 | 35.4 | 3.07 | 46.3 | 34.6 | 3.38 | 44.3 | 33.7 | 3.74 | 42.0 | 32.7 | 4.16 | 39.5  | 31.6 | 4.65 | 36.8  | 30.4 | 5.21 |
| 1500  | 80     | 62     | 49.1 | 43.4 | 3.07 | 47.2 | 43.3 | 3.38 | 45.2 | 42.6 | 3.74 | 43.0 | 41.7 | 4.16 | 40.6  | 40.1 | 4.65 | 38.0  | 38.0 | 5.22 |
|       | 80     | 67     | 52.9 | 36.2 | 3.10 | 50.9 | 35.4 | 3.41 | 48.6 | 34.5 | 3.77 | 46.1 | 33.5 | 4.18 | 43.4  | 32.4 | 4.68 | 40.4  | 31.2 | 5.24 |
|       | 80     | 72     | 57.3 | 28.8 | 3.12 | 55.0 | 28.0 | 3.44 | 52.4 | 27.2 | 3.80 | 49.7 | 26.2 | 4.21 | 46.7  | 25.2 | 4.70 | 43.5  | 24.1 | 5.27 |
|       | 75     | 62     | 48.8 | 36.7 | 3.07 | 46.9 | 35.8 | 3.38 | 44.8 | 34.9 | 3.74 | 42.5 | 33.9 | 4.16 | 40.0  | 32.7 | 4.65 | 37.2  | 31.5 | 5.21 |
| 1600  | 80     | 62     | 49.7 | 45.3 | 3.08 | 47.9 | 44.7 | 3.39 | 45.8 | 44.4 | 3.75 | 43.6 | 42.9 | 4.16 | 41.1  | 41.1 | 4.66 | 38.7  | 38.7 | 5.22 |
|       | 80     | 67     | 53.5 | 37.4 | 3.10 | 51.4 | 36.5 | 3.41 | 49.1 | 35.6 | 3.77 | 46.6 | 34.6 | 4.19 | 43.8  | 33.5 | 4.67 | 40.7  | 32.3 | 5.24 |
|       | 80     | 72     | 57.7 | 29.6 | 3.12 | 55.3 | 28.8 | 3.44 | 52.9 | 27.9 | 3.80 | 50.1 | 27.0 | 4.22 | 47.1  | 25.9 | 4.70 | 43.8  | 24.8 | 5.27 |
|       | 75     | 62     | 49.3 | 37.8 | 3.08 | 47.4 | 37.0 | 3.39 | 45.3 | 36.0 | 3.75 | 42.9 | 35.0 | 4.16 | 40.4  | 33.8 | 4.65 | 37.5  | 32.6 | 5.22 |

## Q7RD-060K

| 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. |
| 1530  | 80     | 62     | 59.7 | 50.1 | 3.77 | 57.1 | 49.4 | 4.15 | 54.3 | 49.0 | 4.56 | 51.2 | 47.5 | 5.05 | 47.9  | 46.4 | 5.61 | 44.4  | 44.4 | 6.26 |
|       | 80     | 67     | 65.0 | 42.0 | 3.82 | 62.1 | 40.9 | 4.20 | 59.0 | 39.7 | 4.62 | 55.6 | 38.3 | 5.11 | 51.9  | 36.9 | 5.67 | 47.8  | 35.3 | 6.32 |
|       | 80     | 72     | 70.8 | 33.8 | 3.89 | 67.7 | 32.7 | 4.27 | 64.3 | 31.5 | 4.70 | 60.5 | 30.2 | 5.18 | 56.4  | 28.8 | 5.74 | 51.9  | 27.3 | 6.40 |
|       | 75     | 62     | 59.6 | 42.6 | 3.77 | 57.0 | 41.4 | 4.15 | 54.2 | 40.2 | 4.57 | 51.1 | 38.8 | 5.05 | 47.7  | 37.4 | 5.61 | 44.0  | 35.8 | 6.26 |
| 1650  | 80     | 62     | 60.7 | 52.3 | 3.78 | 58.1 | 52.1 | 4.16 | 55.2 | 51.2 | 4.57 | 52.1 | 50.2 | 5.06 | 48.7  | 48.3 | 5.62 | 45.4  | 45.4 | 6.28 |
|       | 80     | 67     | 66.0 | 43.7 | 3.83 | 63.0 | 42.5 | 4.21 | 59.8 | 41.3 | 4.63 | 56.4 | 39.9 | 5.12 | 52.5  | 38.5 | 5.68 | 48.3  | 36.9 | 6.33 |
|       | 80     | 72     | 71.7 | 34.8 | 3.90 | 68.5 | 33.7 | 4.28 | 65.0 | 32.5 | 4.71 | 61.2 | 31.2 | 5.19 | 57.0  | 29.8 | 5.75 | 52.4  | 28.3 | 6.41 |
|       | 75     | 62     | 60.6 | 44.3 | 3.78 | 57.9 | 43.1 | 4.16 | 55.0 | 41.8 | 4.57 | 51.8 | 40.5 | 5.06 | 48.3  | 39.0 | 5.62 | 44.5  | 37.4 | 6.27 |
| 1770  | 80     | 62     | 61.6 | 55.0 | 3.79 | 58.9 | 54.3 | 4.17 | 56.0 | 53.9 | 4.58 | 52.9 | 52.1 | 5.07 | 49.6  | 49.6 | 5.64 | 46.3  | 46.3 | 6.29 |
|       | 80     | 67     | 66.8 | 45.3 | 3.84 | 63.8 | 44.2 | 4.22 | 60.6 | 42.9 | 4.64 | 57.0 | 41.5 | 5.13 | 53.1  | 40.1 | 5.69 | 48.8  | 38.5 | 6.34 |
|       | 80     | 72     | 72.6 | 35.9 | 3.91 | 69.3 | 34.7 | 4.29 | 65.7 | 33.5 | 4.72 | 61.8 | 32.2 | 5.20 | 57.6  | 30.8 | 5.76 | 52.9  | 29.3 | 6.42 |
|       | 75     | 62     | 61.4 | 45.9 | 3.79 | 58.7 | 44.7 | 4.17 | 55.7 | 43.5 | 4.58 | 52.4 | 42.1 | 5.07 | 48.8  | 40.6 | 5.63 | 44.9  | 38.9 | 6.27 |

# HEAT PUMP HEATING EXPANDED RATINGS

Q7RD-024K

|     |                    | OUTDOOR TEMPERATURE (Deg. F) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----|--------------------|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| CFM | Indoor T.<br>Deg.F | 10                           |      |      | 17   |      |      | 30   |      |      | 40   |      |      | 47   |      |      | 60   |      |      | 70   |      |      |
|     |                    | MBH                          | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   |
| 700 | 60                 | 11.4                         | 1.96 | 1.70 | 14.0 | 2.34 | 1.75 | 18.8 | 3.00 | 1.84 | 22.5 | 3.47 | 1.91 | 25.2 | 3.77 | 1.96 | 30.0 | 4.30 | 2.04 | 33.7 | 4.68 | 2.11 |
|     | 70                 | 10.8                         | 1.89 | 1.68 | 13.3 | 2.23 | 1.74 | 17.8 | 2.80 | 1.86 | 21.3 | 3.19 | 1.95 | 23.7 | 3.45 | 2.02 | 28.2 | 3.88 | 2.14 | 31.7 | 4.17 | 2.23 |
|     | 80                 | 10.2                         | 1.79 | 1.68 | 12.5 | 2.10 | 1.75 | 16.7 | 2.60 | 1.88 | 20.0 | 2.95 | 1.99 | 22.2 | 3.17 | 2.06 | 26.4 | 3.54 | 2.19 | 29.7 | 3.79 | 2.30 |
| 800 | 60                 | 11.4                         | 1.92 | 1.74 | 14.1 | 2.31 | 1.79 | 19.0 | 2.97 | 1.87 | 22.8 | 3.45 | 1.94 | 25.4 | 3.76 | 1.99 | 30.4 | 4.30 | 2.07 | 34.2 | 4.69 | 2.14 |
|     | 70                 | 10.9                         | 1.86 | 1.72 | 13.4 | 2.20 | 1.79 | 18.0 | 2.78 | 1.90 | 21.5 | 3.17 | 1.99 | 24.0 | 3.43 | 2.05 | 28.6 | 3.87 | 2.16 | 32.1 | 4.18 | 2.25 |
|     | 80                 | 10.3                         | 1.77 | 1.71 | 12.7 | 2.08 | 1.79 | 17.0 | 2.59 | 1.92 | 20.3 | 2.93 | 2.03 | 22.6 | 3.15 | 2.10 | 26.9 | 3.53 | 2.24 | 30.2 | 3.79 | 2.34 |
| 900 | 60                 | 11.6                         | 1.90 | 1.78 | 14.2 | 2.29 | 1.83 | 19.2 | 2.95 | 1.91 | 23.0 | 3.43 | 1.97 | 25.7 | 3.74 | 2.01 | 30.6 | 4.30 | 2.09 | 34.5 | 4.69 | 2.15 |
|     | 70                 | 11.0                         | 1.84 | 1.76 | 13.5 | 2.18 | 1.82 | 18.2 | 2.76 | 1.93 | 21.8 | 3.16 | 2.02 | 24.3 | 3.43 | 2.08 | 29.0 | 3.87 | 2.19 | 32.5 | 4.19 | 2.28 |
|     | 80                 | 10.5                         | 1.75 | 1.75 | 12.8 | 2.06 | 1.82 | 17.1 | 2.56 | 1.96 | 20.4 | 2.91 | 2.06 | 22.8 | 3.13 | 2.14 | 27.1 | 3.50 | 2.27 | 30.4 | 3.76 | 2.37 |

Q7RD-030K

|      |                    | OUTDOOR TEMPERATURE (Deg. F) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|--------------------|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| CFM  | Indoor T.<br>Deg.F | 10                           |      |      | 17   |      |      | 30   |      |      | 40   |      |      | 47   |      |      | 60   |      |      | 70   |      |      |
|      |                    | MBH                          | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   |
| 950  | 60                 | 13.0                         | 2.02 | 1.90 | 16.2 | 2.37 | 2.01 | 22.1 | 2.92 | 2.21 | 26.6 | 3.28 | 2.37 | 29.8 | 3.51 | 2.49 | 35.6 | 3.88 | 2.69 | 40.1 | 4.13 | 2.85 |
|      | 70                 | 12.5                         | 1.92 | 1.91 | 15.4 | 2.22 | 2.04 | 21.0 | 2.70 | 2.28 | 25.3 | 3.01 | 2.47 | 28.3 | 3.20 | 2.60 | 33.9 | 3.50 | 2.84 | 38.2 | 3.70 | 3.03 |
|      | 80                 | 11.9                         | 1.80 | 1.93 | 14.7 | 2.07 | 2.08 | 20.0 | 2.49 | 2.35 | 24.0 | 2.76 | 2.56 | 26.9 | 2.92 | 2.70 | 32.1 | 3.17 | 2.97 | 36.2 | 3.34 | 3.18 |
| 1050 | 60                 | 13.1                         | 1.99 | 1.93 | 16.3 | 2.34 | 2.04 | 22.3 | 2.91 | 2.24 | 26.8 | 3.28 | 2.40 | 30.1 | 3.51 | 2.51 | 36.0 | 3.89 | 2.71 | 40.6 | 4.15 | 2.87 |
|      | 70                 | 12.6                         | 1.89 | 1.95 | 15.6 | 2.20 | 2.08 | 21.2 | 2.69 | 2.31 | 25.6 | 3.01 | 2.49 | 28.6 | 3.20 | 2.62 | 34.2 | 3.51 | 2.86 | 38.6 | 3.72 | 3.04 |
|      | 80                 | 12.0                         | 1.78 | 1.97 | 14.9 | 2.06 | 2.11 | 20.2 | 2.49 | 2.38 | 24.3 | 2.76 | 2.58 | 27.2 | 2.92 | 2.73 | 32.6 | 3.19 | 2.99 | 36.7 | 3.36 | 3.20 |
| 1150 | 60                 | 13.2                         | 1.96 | 1.97 | 16.5 | 2.32 | 2.08 | 22.5 | 2.89 | 2.28 | 27.1 | 3.27 | 2.43 | 30.3 | 3.51 | 2.53 | 36.3 | 3.90 | 2.73 | 40.9 | 4.17 | 2.88 |
|      | 70                 | 12.7                         | 1.88 | 1.98 | 15.8 | 2.19 | 2.11 | 21.4 | 2.69 | 2.34 | 25.8 | 3.01 | 2.52 | 28.9 | 3.21 | 2.64 | 34.6 | 3.53 | 2.88 | 39.0 | 3.74 | 3.05 |
|      | 80                 | 12.1                         | 1.77 | 2.01 | 15.0 | 2.05 | 2.15 | 20.4 | 2.48 | 2.41 | 24.5 | 2.75 | 2.61 | 27.4 | 2.92 | 2.75 | 32.8 | 3.19 | 3.02 | 36.9 | 3.36 | 3.22 |

Q7RD-036K

|      |                    | OUTDOOR TEMPERATURE (Deg. F) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|--------------------|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| CFM  | Indoor T.<br>Deg.F | 10                           |      |      | 17   |      |      | 30   |      |      | 40   |      |      | 47   |      |      | 60   |      |      | 70   |      |      |
|      |                    | MBH                          | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   |
| 1175 | 60                 | 15.1                         | 1.97 | 2.26 | 19.0 | 2.38 | 2.34 | 26.3 | 3.08 | 2.50 | 31.8 | 3.56 | 2.62 | 35.7 | 3.87 | 2.71 | 43.0 | 4.39 | 2.87 | 48.6 | 4.76 | 2.99 |
|      | 70                 | 14.5                         | 1.83 | 2.32 | 18.2 | 2.21 | 2.42 | 25.2 | 2.84 | 2.60 | 30.5 | 3.27 | 2.74 | 34.3 | 3.54 | 2.84 | 41.3 | 4.00 | 3.02 | 46.6 | 4.32 | 3.16 |
|      | 80                 | 13.9                         | 1.70 | 2.40 | 17.5 | 2.04 | 2.51 | 24.2 | 2.61 | 2.71 | 29.3 | 3.00 | 2.86 | 32.9 | 3.24 | 2.97 | 39.5 | 3.66 | 3.17 | 44.7 | 3.94 | 3.32 |
| 1275 | 60                 | 15.2                         | 1.94 | 2.29 | 19.1 | 2.36 | 2.37 | 26.5 | 3.07 | 2.53 | 32.1 | 3.56 | 2.65 | 36.1 | 3.87 | 2.73 | 43.4 | 4.41 | 2.88 | 49.0 | 4.79 | 3.00 |
|      | 70                 | 14.6                         | 1.82 | 2.36 | 18.4 | 2.20 | 2.45 | 25.4 | 2.84 | 2.63 | 30.8 | 3.27 | 2.76 | 34.6 | 3.55 | 2.86 | 41.6 | 4.02 | 3.04 | 47.0 | 4.35 | 3.17 |
|      | 80                 | 14.0                         | 1.69 | 2.44 | 17.7 | 2.04 | 2.54 | 24.4 | 2.61 | 2.74 | 29.6 | 3.00 | 2.89 | 33.2 | 3.26 | 2.99 | 40.0 | 3.68 | 3.19 | 45.2 | 3.97 | 3.34 |
| 1375 | 60                 | 15.3                         | 1.93 | 2.33 | 19.3 | 2.35 | 2.41 | 26.7 | 3.06 | 2.56 | 32.3 | 3.55 | 2.67 | 36.3 | 3.87 | 2.75 | 43.7 | 4.42 | 2.90 | 49.4 | 4.80 | 3.02 |
|      | 70                 | 14.7                         | 1.81 | 2.39 | 18.6 | 2.19 | 2.48 | 25.6 | 2.83 | 2.65 | 31.1 | 3.27 | 2.79 | 34.9 | 3.55 | 2.88 | 42.0 | 4.03 | 3.05 | 47.4 | 4.37 | 3.19 |
|      | 80                 | 14.2                         | 1.68 | 2.47 | 17.8 | 2.03 | 2.57 | 24.6 | 2.61 | 2.76 | 29.8 | 3.00 | 2.91 | 33.4 | 3.25 | 3.01 | 40.2 | 3.68 | 3.20 | 45.4 | 3.97 | 3.35 |

Q7RD-042K

|      |                    | OUTDOOR TEMPERATURE (Deg. F) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|--------------------|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| CFM  | Indoor T.<br>Deg.F | 10                           |      |      | 17   |      |      | 30   |      |      | 40   |      |      | 47   |      |      | 60   |      |      | 70   |      |      |
|      |                    | MBH                          | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   |
| 1350 | 60                 | 18.3                         | 2.11 | 2.54 | 22.7 | 2.54 | 2.62 | 30.9 | 3.25 | 2.79 | 37.2 | 3.75 | 2.91 | 41.6 | 4.07 | 3.00 | 49.9 | 4.63 | 3.16 | 56.2 | 5.01 | 3.29 |
|      | 70                 | 17.5                         | 1.95 | 2.64 | 21.8 | 2.34 | 2.74 | 29.8 | 2.99 | 2.92 | 35.9 | 3.44 | 3.06 | 40.2 | 3.73 | 3.16 | 48.1 | 4.23 | 3.34 | 54.3 | 4.58 | 3.48 |
|      | 80                 | 17.0                         | 1.80 | 2.77 | 21.1 | 2.16 | 2.87 | 28.8 | 2.75 | 3.07 | 34.7 | 3.16 | 3.22 | 38.8 | 3.43 | 3.32 | 46.5 | 3.88 | 3.52 | 52.4 | 4.19 | 3.67 |
| 1450 | 60                 | 18.3                         | 2.09 | 2.57 | 22.8 | 2.52 | 2.65 | 31.1 | 3.25 | 2.81 | 37.5 | 3.75 | 2.93 | 42.0 | 4.08 | 3.01 | 50.3 | 4.65 | 3.17 | 56.7 | 5.05 | 3.29 |
|      | 70                 | 17.7                         | 1.94 | 2.67 | 22.0 | 2.33 | 2.77 | 30.0 | 2.99 | 2.94 | 36.2 | 3.45 | 3.08 | 40.5 | 3.75 | 3.17 | 48.5 | 4.25 | 3.34 | 54.7 | 4.61 | 3.48 |
|      | 80                 | 17.1                         | 1.79 | 2.80 | 21.3 | 2.15 | 2.90 | 29.0 | 2.75 | 3.09 | 35.0 | 3.17 | 3.23 | 39.1 | 3.44 | 3.33 | 46.9 | 3.90 | 3.52 | 52.9 | 4.23 | 3.67 |
| 1550 | 60                 | 18.3                         | 2.07 | 2.60 | 22.9 | 2.50 | 2.68 | 31.3 | 3.23 | 2.83 | 37.7 | 3.75 | 2.95 | 42.2 | 4.08 | 3.04 | 50.6 | 4.66 | 3.19 | 57.1 | 5.06 | 3.31 |
|      | 70                 | 17.8                         | 1.93 | 2.70 | 22.2 | 2.33 | 2.79 | 30.2 | 2.99 | 2.96 | 36.5 | 3.45 | 3.10 | 40.8 | 3.75 | 3.19 | 48.9 | 4.27 | 3.36 | 55.1 | 4.63 | 3.49 |
|      | 80                 | 17.2                         | 1.79 | 2.83 | 21.4 | 2.15 | 2.92 | 29.2 | 2.75 | 3.11 | 35.2 | 3.17 | 3.25 | 39.4 | 3.45 | 3.35 | 47.1 | 3.91 | 3.53 | 53.1 | 4.24 | 3.67 |

# HEAT PUMP HEATING EXPANDED RATINGS (CONTINUED)

Q7RD-048K

|      |                    | OUTDOOR TEMPERATURE (Deg. F) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|--------------------|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| CFM  | Indoor T.<br>Deg.F | 10                           |      |      | 17   |      |      | 30   |      |      | 40   |      |      | 47   |      |      | 60   |      |      | 70   |      |      |
|      |                    | MBH                          | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   |
| 1400 | 60                 | 19.6                         | 2.02 | 2.84 | 24.5 | 2.44 | 2.95 | 33.7 | 3.15 | 3.14 | 40.7 | 3.63 | 3.29 | 45.6 | 3.95 | 3.39 | 54.8 | 4.49 | 3.58 | 61.8 | 4.86 | 3.73 |
|      | 70                 | 18.8                         | 1.84 | 3.00 | 23.6 | 2.23 | 3.11 | 32.5 | 2.88 | 3.31 | 39.4 | 3.33 | 3.47 | 44.2 | 3.62 | 3.58 | 53.1 | 4.11 | 3.79 | 59.9 | 4.45 | 3.95 |
|      | 80                 | 18.3                         | 1.69 | 3.17 | 22.9 | 2.04 | 3.29 | 31.5 | 2.64 | 3.51 | 38.2 | 3.04 | 3.68 | 42.8 | 3.31 | 3.80 | 51.4 | 3.76 | 4.01 | 58.1 | 4.07 | 4.18 |
| 1500 | 60                 | 19.6                         | 2.01 | 2.87 | 24.6 | 2.43 | 2.97 | 33.9 | 3.15 | 3.16 | 41.0 | 3.64 | 3.30 | 46.0 | 3.97 | 3.40 | 55.2 | 4.52 | 3.59 | 62.4 | 4.90 | 3.73 |
|      | 70                 | 19.0                         | 1.84 | 3.02 | 23.8 | 2.23 | 3.13 | 32.8 | 2.89 | 3.33 | 39.7 | 3.34 | 3.48 | 44.5 | 3.64 | 3.59 | 53.5 | 4.14 | 3.79 | 60.4 | 4.49 | 3.94 |
|      | 80                 | 18.4                         | 1.68 | 3.20 | 23.1 | 2.04 | 3.31 | 31.8 | 2.64 | 3.52 | 38.5 | 3.06 | 3.68 | 43.2 | 3.33 | 3.80 | 51.9 | 3.79 | 4.01 | 58.6 | 4.12 | 4.17 |
| 1600 | 60                 | 19.6                         | 1.99 | 2.90 | 24.7 | 2.42 | 3.00 | 34.0 | 3.14 | 3.18 | 41.2 | 3.64 | 3.32 | 46.3 | 3.97 | 3.42 | 55.6 | 4.53 | 3.60 | 62.8 | 4.92 | 3.74 |
|      | 70                 | 19.1                         | 1.84 | 3.05 | 24.0 | 2.23 | 3.15 | 33.0 | 2.89 | 3.35 | 39.9 | 3.35 | 3.50 | 44.8 | 3.65 | 3.60 | 53.8 | 4.16 | 3.80 | 60.8 | 4.52 | 3.94 |
|      | 80                 | 18.5                         | 1.68 | 3.22 | 23.2 | 2.04 | 3.33 | 31.9 | 2.65 | 3.54 | 38.7 | 3.07 | 3.69 | 43.4 | 3.34 | 3.80 | 52.1 | 3.81 | 4.01 | 58.9 | 4.14 | 4.17 |

Q7RD-060K

|      |                    | OUTDOOR TEMPERATURE (Deg. F) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|--------------------|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| CFM  | Indoor T.<br>Deg.F | 10                           |      |      | 17   |      |      | 30   |      |      | 40   |      |      | 47   |      |      | 60   |      |      | 70   |      |      |
|      |                    | MBH                          | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   |
| 1530 | 60                 | 24.9                         | 2.28 | 3.20 | 30.7 | 2.63 | 3.42 | 41.5 | 3.17 | 3.84 | 49.8 | 3.51 | 4.16 | 55.6 | 3.72 | 4.38 | 66.3 | 4.06 | 4.79 | 74.6 | 4.28 | 5.11 |
|      | 70                 | 24.1                         | 2.07 | 3.42 | 29.8 | 2.39 | 3.65 | 40.3 | 2.89 | 4.09 | 48.4 | 3.21 | 4.43 | 54.1 | 3.40 | 4.66 | 64.7 | 3.72 | 5.10 | 72.8 | 3.92 | 5.44 |
|      | 80                 | 23.6                         | 1.89 | 3.65 | 29.1 | 2.19 | 3.90 | 39.4 | 2.64 | 4.38 | 47.3 | 2.92 | 4.74 | 52.8 | 3.10 | 4.99 | 63.1 | 3.38 | 5.47 | 71.0 | 3.57 | 5.83 |
| 1650 | 60                 | 25.1                         | 2.27 | 3.23 | 30.9 | 2.63 | 3.45 | 41.8 | 3.18 | 3.85 | 50.1 | 3.54 | 4.16 | 56.0 | 3.76 | 4.37 | 66.9 | 4.11 | 4.77 | 75.2 | 4.34 | 5.08 |
|      | 70                 | 24.3                         | 2.07 | 3.44 | 30.0 | 2.40 | 3.67 | 40.6 | 2.91 | 4.09 | 48.8 | 3.24 | 4.42 | 54.5 | 3.44 | 4.65 | 65.1 | 3.76 | 5.07 | 73.3 | 3.98 | 5.40 |
|      | 80                 | 23.7                         | 1.89 | 3.68 | 29.3 | 2.19 | 3.92 | 39.6 | 2.66 | 4.38 | 47.6 | 2.96 | 4.72 | 53.2 | 3.14 | 4.97 | 63.6 | 3.44 | 5.42 | 71.5 | 3.64 | 5.77 |
| 1770 | 60                 | 25.0                         | 2.25 | 3.25 | 30.9 | 2.61 | 3.47 | 41.9 | 3.18 | 3.87 | 50.4 | 3.54 | 4.17 | 56.4 | 3.77 | 4.39 | 67.4 | 4.13 | 4.79 | 75.8 | 4.37 | 5.09 |
|      | 70                 | 24.5                         | 2.07 | 3.47 | 30.2 | 2.40 | 3.69 | 40.9 | 2.92 | 4.11 | 49.1 | 3.25 | 4.43 | 54.9 | 3.46 | 4.65 | 65.5 | 3.80 | 5.06 | 73.7 | 4.02 | 5.38 |
|      | 80                 | 23.8                         | 1.89 | 3.71 | 29.4 | 2.19 | 3.94 | 39.9 | 2.67 | 4.38 | 47.9 | 2.98 | 4.72 | 53.5 | 3.17 | 4.95 | 63.9 | 3.48 | 5.39 | 71.9 | 3.68 | 5.73 |



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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.

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