



## TECHNICAL SPECIFICATIONS

*Model Q4SE Series*



M120 Product Line

**Single Packaged Heat Pump  
14 SEER - 2 – 5 Ton Units**

- **12 YEAR ALL PARTS WARRANTY**
- **This product offers a 1 Year Dependability Promise to replace the unit if the compressor fails in the first year of operation, to the original owner.**
- **Product registration required for 12-year All Parts Warranty and Dependability Promise within a limited period of time after the installation. See current warranty document for details. This can be viewed at [www.maytaghvac.com](http://www.maytaghvac.com) or ask your sales representative.**

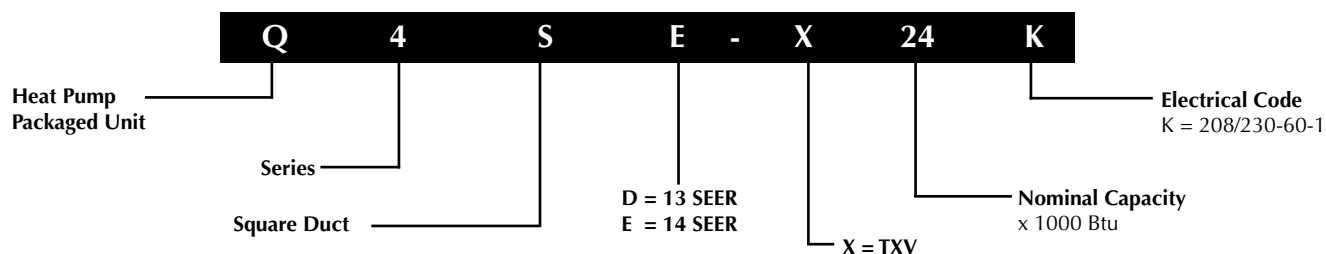


The Q4SE Series single packaged heat pumps are high efficiency self contained cooling and heating units that can be installed on a roof or on a slab. The convertible unit design makes installations simple in all applications. Units are ETL and ETLc listed.

### Features and Benefits

- **Copeland Ultra-Tech Compressor:** State of the art 2 stage scroll compressor is standard equipment.
- **Quiet Operation and Low Vibration:** Compressor sound blanket is standard. Swept-wing fan blade combined with custom Venturi condenser fan.
- **R-410A Refrigerant:** Earth friendly non-ozone depleting refrigerant.
- **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.
- **Copper Tube/Aluminum Fin Coils:** Both indoor and outdoor coils are designed to optimize heat transfer, minimize size and cost, and increase durability and reliability.
- **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.
- **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.
- **Thermostatic Expansion Valves:** Factory installed externally equalized thermostatic expansion valves provides precise refrigerant control under varying load conditions.
- **Hi/Low Pressure Switches:** Ensure long compressor life.
- **Externally Accessible, High Flow Service Ports:** Quick access to refrigeration system.
- **Liquid Line Filter Driers:** Factory installed at a convenient location for service.
- **Suction Accumulator:** Protection from liquid flood back and future compressor failures.
- **Low voltage Transformer:** Includes 3 Amp fuse to protect low voltage circuit.
- **Corrosion-Resistant Drain Pan:** Quickly drains away evaporator condensate.
- **ECM Variable Speed Blower Motor:** Advanced technology allows the motor to automatically adjust to different static loads. The variable speed motor allows for extra quiet operation and improved air quality.
- **Demand Defrost Standard:** Provides additional energy savings in heating by defrosting only when necessary.
- **Three Minute Restart Time Delay:** When the unit shuts down, a three minute delay keeps the unit from restarting, eliminating the highest cause for compressor failure.
- **Heavy-Gauge, Full Perimeter Base Rails:** Facilitates forklift handling and curb mounting.
- **Convertible Air Delivery:** Horizontal or downflow to accommodate roof-top or horizontal applications.
- **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.
- **Duct Flanges:** reduce installation costs.
- **Optional Electric Heat:** Field installed 5 – 20 KW.
- **Proven, Industry Standard Components:** Easier service and availability.

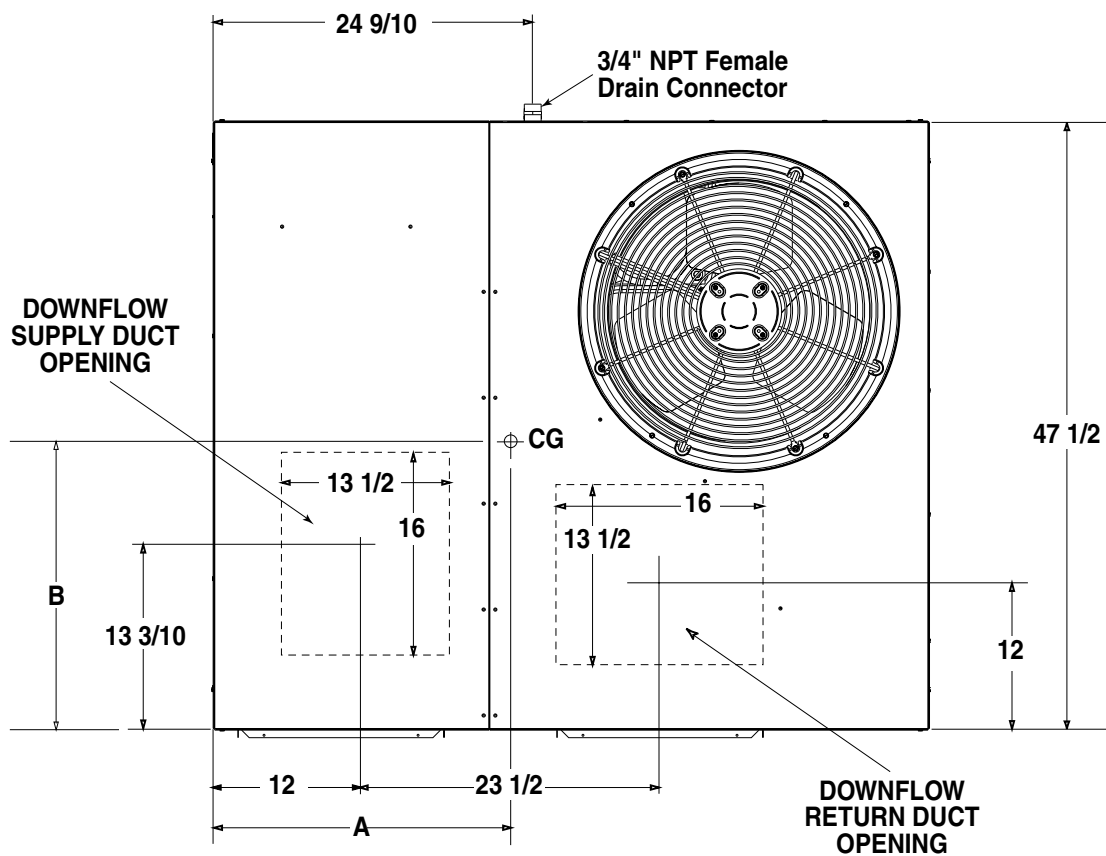
## IDENTIFICATION CODE



## SPECIFICATIONS

| Model Number                     | Q4SE      |            |            |            |
|----------------------------------|-----------|------------|------------|------------|
|                                  | X24K      | X36K       | X48K       | X60K       |
| <b>Performance</b>               |           |            |            |            |
| Capacity - Heating BTUH          | 22,200    | 33,000     | 42,500     | 55,500     |
| Efficiency - HSPF                | 8.0       | 8.0        | 8.0        | 8.0        |
| Capacity - Cooling BTUH          | 23,600    | 34,000     | 44,000     | 56,500     |
| Efficiency - SEER                | 14.20     | 14.00      | 14.50      | 14.00      |
| EER (Btuh/watt)                  | 11.0      | 11.0       | 11.0       | 11.0       |
| <b>Electrical Rating - 60 Hz</b> |           |            |            |            |
| Phase                            | 1         | 1          | 1          | 1          |
| Operating Voltage Range          | 187-253   | 187-253    | 187-253    | 187-253    |
| <b>Compressor Data</b>           |           |            |            |            |
| Volts                            | 208-230   | 208-230    | 208-230    | 208-230    |
| Rated Load Amps                  | 11.4      | 19.0       | 24.0       | 26.0       |
| Lock Rotor Amps                  | 52        | 82         | 96         | 118        |
| <b>Indoor Blower</b>             |           |            |            |            |
| Type                             | Var. Sp.  | Var. Sp.   | Var. Sp.   | Var. Sp.   |
| Motor HP                         | 1/2       | 1/2        | 3/4        | 3/4        |
| Motor RPM Range                  | 490-740   | 490-740    | 645-950    | 645-950    |
| Motor - Amps                     | 4.3       | 4.3        | 6.8        | 6.8        |
| <b>Outdoor Fan</b>               |           |            |            |            |
| Motor - HP / RPM                 | 1/4 - 825 | 1/4 - 1100 | 1/4 - 1100 | 1/3 - 1000 |
| Motor - Amps                     | 1.4       | 1.2        | 1.2        | 1.5        |
| Fan Diameter / CFM               | 20 / 3200 | 20 / 3800  | 20 / 3800  | 20 / 4000  |
| <b>Refrigerant Charge - Oz.</b>  | 112.0     | 126.4      | 264        | 236.8      |
| <b>Net Weight lbs.</b>           | 450       | 460        | 570        | 580        |
| <b>Shipping weight lbs.</b>      | 460       | 470        | 580        | 590        |

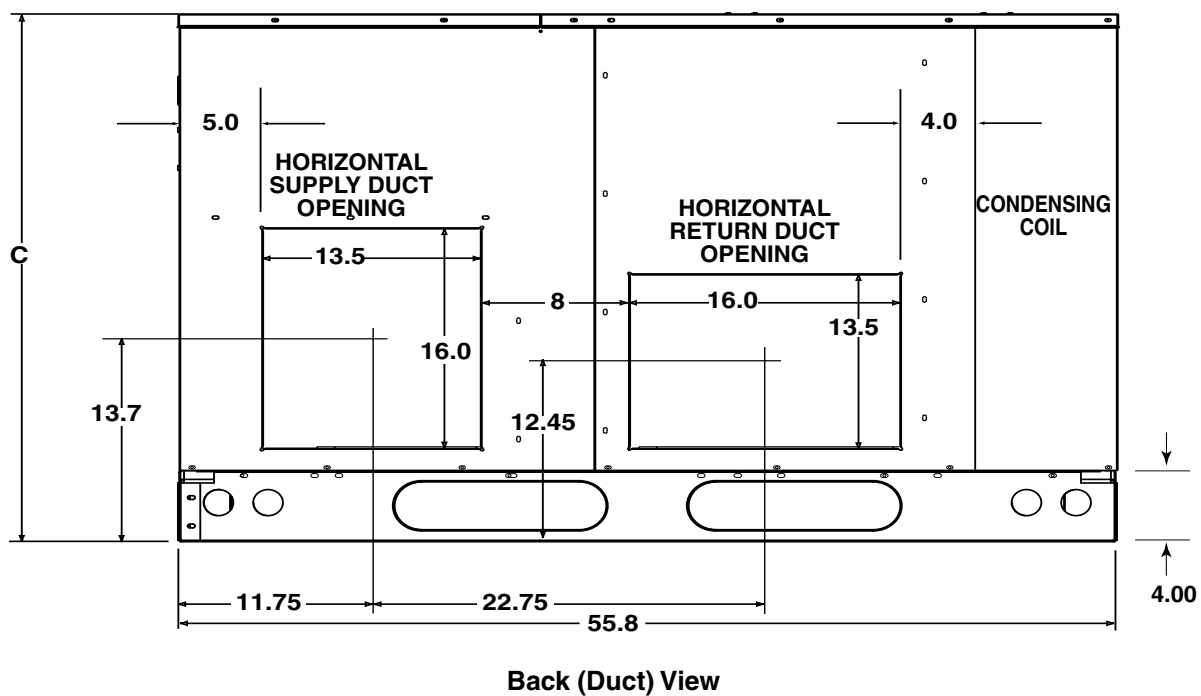
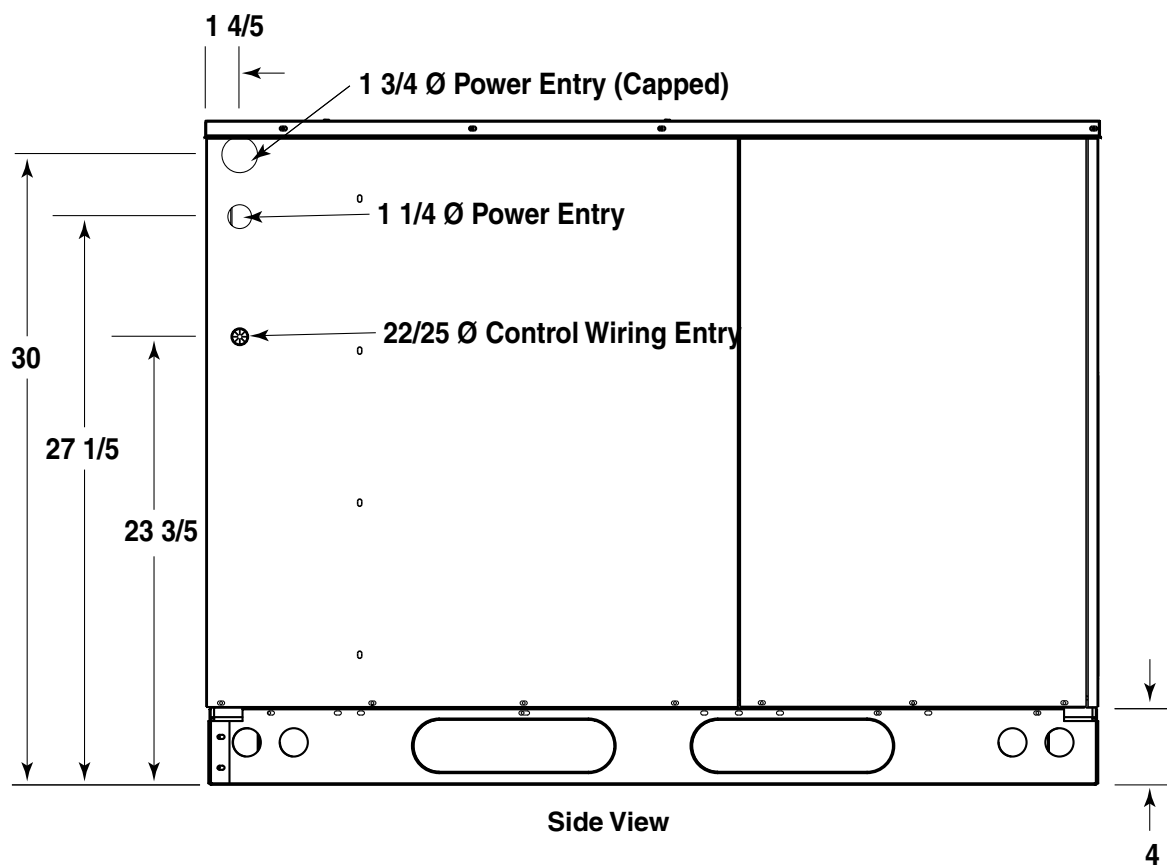
# DIMENSIONS



Top View

| Model Number<br>Q4SE | Unit Weight | Center of Gravity |      | Height (in inches) |                    |
|----------------------|-------------|-------------------|------|--------------------|--------------------|
|                      |             | A                 | B    | C                  |                    |
|                      |             |                   |      | with base rails    | without base rails |
| X24                  | 450         | 28.0              | 25.5 | 39.0               | 35.3               |
| X36                  | 460         | 28.0              | 25.5 | 39.0               | 35.3               |
| X48                  | 570         | 29.5              | 26.0 | 43.0               | 39.3               |
| X60                  | 580         | 29.5              | 26.0 | 43.0               | 39.3               |

# DIMENSIONS continued



## ELECTRICAL DATA

| Model Number | Heater kw | Single Circuit |                             |     | Multiple Supply Circuit Option          |                             |     |                         |                             |     |                         |                             |     |
|--------------|-----------|----------------|-----------------------------|-----|-----------------------------------------|-----------------------------|-----|-------------------------|-----------------------------|-----|-------------------------|-----------------------------|-----|
|              |           | MCA            | Rec, Wire Gage<br>(90°C Cu) | MOP | Circuit A (Compressor,<br>Blower & Fan) |                             |     | Circuit B (Heater Only) |                             |     | Circuit C (Heater Only) |                             |     |
|              |           |                |                             |     | MCA                                     | Rec, Wire Gage<br>(90°C Cu) | MOP | MCA                     | Rec, Wire Gage<br>(90°C Cu) | MOP | MCA                     | Rec, Wire Gage<br>(90°C Cu) | MOP |
| Q4SE-X24K    | 0         | 20             | 12                          | 30  | -                                       | -                           | -   | -                       | -                           | -   | -                       | -                           | -   |
|              | 5         | 45             | 8                           | 50  | -                                       | -                           | -   | -                       | -                           | -   | -                       | -                           | -   |
|              | 8         | 60             | 6                           | 60  | 20                                      | 12                          | 30  | 40                      | 8                           | 40  | -                       | -                           | -   |
|              | 10        | 70             | 6                           | 70  | 20                                      | 12                          | 30  | 50                      | 8                           | 60  | -                       | -                           | -   |
| Q4SE-X36K    | 0         | 29             | 10                          | 45  | -                                       | -                           | -   | -                       | -                           | -   | -                       | -                           | -   |
|              | 5         | 54             | 8                           | 60  | -                                       | -                           | -   | -                       | -                           | -   | -                       | -                           | -   |
|              | 8         | 69             | 6                           | 70  | 29                                      | 10                          | 45  | 40                      | 8                           | 40  | -                       | -                           | -   |
|              | 10        | 79             | 4                           | 80  | 29                                      | 10                          | 45  | 50                      | 8                           | 60  | -                       | -                           | -   |
|              | 15        | 104            | 3                           | 110 | 54                                      | 8                           | 60  | 50                      | 8                           | 60  | -                       | -                           | -   |
| Q4SE-X48K    | 0         | 38             | 8                           | 60  | -                                       | -                           | -   | -                       | -                           | -   | -                       | -                           | -   |
|              | 5         | 63             | 6                           | 80  | 38                                      | 8                           | 60  | 25                      | 10                          | 30  | -                       | -                           | -   |
|              | 8         | 78             | 4                           | 90  | 38                                      | 8                           | 60  | 40                      | 8                           | 40  | -                       | -                           | -   |
|              | 10        | 88             | 4                           | 100 | 38                                      | 8                           | 60  | 50                      | 8                           | 60  | -                       | -                           | -   |
|              | 15        | 113            | 2                           | 125 | 38                                      | 8                           | 60  | 50                      | 8                           | 60  | 25                      | 10                          | 30  |
|              | 20        | 138            | 1                           | 150 | 38                                      | 8                           | 60  | 50                      | 8                           | 60  | 50                      | 8                           | 60  |
| Q4SE-X60K    | 0         | 41             | 8                           | 60  | -                                       | -                           | -   | -                       | -                           | -   | -                       | -                           | -   |
|              | 5         | 66             | 6                           | 80  | 41                                      | 8                           | 60  | 25                      | 10                          | 30  | -                       | -                           | -   |
|              | 8         | 80             | 4                           | 90  | 41                                      | 8                           | 60  | 40                      | 8                           | 40  | -                       | -                           | -   |
|              | 10        | 91             | 4                           | 100 | 41                                      | 8                           | 60  | 50                      | 8                           | 60  | -                       | -                           | -   |
|              | 15        | 116            | 2                           | 125 | 41                                      | 8                           | 60  | 50                      | 8                           | 60  | 25                      | 10                          | 30  |
|              | 20        | 141            | 1                           | 150 | 41                                      | 8                           | 60  | 50                      | 8                           | 60  | 50                      | 8                           | 60  |

# BLOWER PERFORMANCE

## Basic Air-Flow Settings

| 1/2 HP Motor |   |   |   |   |                  | 1/2 HP Motor |   |   |   |   |                  | 3/4 HP Motor |   |   |   |   |                  |
|--------------|---|---|---|---|------------------|--------------|---|---|---|---|------------------|--------------|---|---|---|---|------------------|
| SWITCH       |   |   |   |   | Nominal          | SWITCH       |   |   |   |   | Nominal          | SWITCH       |   |   |   |   | Nominal          |
| CFM          | 1 | 2 | 3 | 4 | 2.0              | CFM          | 1 | 2 | 3 | 4 | 3.0              | CFM          | 1 | 2 | 3 | 4 | 4.0 5.0          |
| 720          | 0 | 0 | 0 | 0 | 2<br>T<br>O<br>N | 1080         | 0 | 0 | 0 | 1 | 3<br>T<br>O<br>N | 1395         | 0 | 0 | 0 | 1 | 4<br>T<br>O<br>N |
| 800          | 0 | 0 | 0 | 1 |                  | 1200         | 0 | 0 | 0 | 0 |                  | 1485         | 1 | 0 | 0 | 1 |                  |
| 810          | 1 | 0 | 0 | 1 |                  | 1215         | 1 | 0 | 0 | 1 |                  | 1550         | 0 | 0 | 0 | 0 |                  |
| 880          | 0 | 0 | 1 | 0 |                  | 1260         | 0 | 1 | 0 | 1 |                  | 1620         | 0 | 1 | 0 | 1 |                  |
| 900          | 1 | 0 | 0 | 0 |                  | 1320         | 0 | 0 | 1 | 0 |                  | 1650         | 1 | 0 | 0 | 0 |                  |
| 945          | 0 | 1 | 0 | 1 | 5<br>T<br>O<br>N | 1350         | 1 | 0 | 0 | 0 | 5<br>T<br>O<br>N | 1705         | 0 | 0 | 1 | 0 | 5<br>T<br>O<br>N |
| 990          | 1 | 0 | 1 | 0 |                  | 1395         | 1 | 1 | 0 | 1 |                  | 1710         | 1 | 1 | 0 | 1 |                  |
| 1035         | 1 | 1 | 0 | 0 |                  | 1400         | 0 | 1 | 0 | 0 |                  | 1800         | 0 | 1 | 0 | 0 |                  |
| 1050         | 0 | 1 | 0 | 0 |                  | 1485         | 1 | 0 | 1 | 0 |                  | 1815         | 1 | 0 | 1 | 0 |                  |
| 1150         | 1 | 1 | 0 | 0 |                  | 1540         | 0 | 1 | 1 | 0 |                  | 1900         | 1 | 1 | 0 | 0 |                  |
| 1155         | 0 | 1 | 1 | 0 | 5<br>T<br>O<br>N | 1550         | 1 | 1 | 0 | 0 | 5<br>T<br>O<br>N | 1980         | 0 | 1 | 1 | 0 | 5<br>T<br>O<br>N |
| 1265         | 1 | 1 | 1 | 0 |                  | 1705         | 1 | 1 | 1 | 0 |                  | 2090         | 1 | 1 | 1 | 0 |                  |

Note: 1=ON, 0=OFF

### Air Flow Selection for Variable Speed Motors

| Nominal<br>KW | CFM  | Switch Number |   |   |   |   |   |   |   |
|---------------|------|---------------|---|---|---|---|---|---|---|
|               |      | 1             | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 0-5           | 500  |               |   |   |   | 0 | 0 |   |   |
| 6-10          | 700  |               |   |   |   | 1 | 0 |   |   |
| 11-15         | 900  |               |   |   |   | 0 | 1 |   |   |
| 16-20         | 1100 |               |   |   |   | 1 | 1 |   |   |

Note: 1=ON, 0=OFF

### Minimum Electric Heat Airflow

| Delay<br>Description | Switch Number |   |   |   |   |   |   |   |
|----------------------|---------------|---|---|---|---|---|---|---|
|                      | 1             | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Delay A              |               |   |   |   |   |   | 0 | 0 |
| Delay B              |               |   |   |   |   |   | 0 | 1 |
| No Delay             |               |   |   |   |   |   | 1 | 0 |
| De-Hum.              |               |   |   |   |   |   | 1 | 1 |

Note: 1=ON, 0=OFF

### Delay Settings

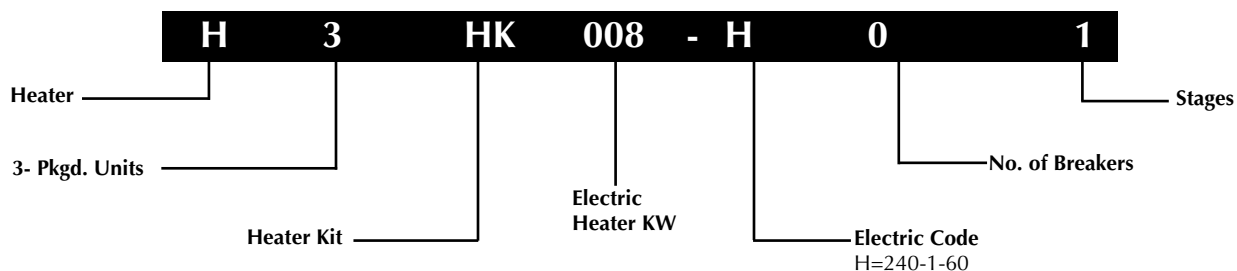
# HEATER APPLICATION MATRIX

| Model<br>Number | H3HK-005H-01B | H3HK-008H-01B | H3HK-010H-01B | H3HK-015H-01B | H3HK-020H-01B | H3HK-015H-21B | H3HK-020H-21B |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                 | 917166B       | 917167B       | 917168B       | 917169B       | 917170B       | 917172B       | 917173B       |
| Q4SEX24K        | X             | X(2)          | X(2)          | NA            | NA            | X             | NA            |
| Q4SEX36K        | X             | X(2)          | X(2)          | X(2)          | NA            | X             | NA            |
| Q4SEX48K        | X(2)          | X(2)          | X(2)          | X(3)          | X(3)          | X(1)          | X(1)          |
| Q4SEX60K        | X(2)          | X(2)          | X(2)          | X(3)          | X(3)          | X(1)          | X(1)          |

NA = Not Applicable.

( ) = Number of internal circuit breaker kits required.

# IDENTIFICATION CODE



### Q4SE-X24K

| O.D.T |        |        | 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. |
| 700   | 80     | 62     | 22.2 | 18.8 | 1.81 | 21.0 | 18.8 | 2.00 | 19.8  | 19.2 | 2.23 | 18.5  | 18.4 | 2.47 |
|       | 80     | 67     | 24.5 | 15.4 | 1.73 | 23.3 | 15.0 | 1.92 | 22.0  | 14.5 | 2.13 | 20.5  | 14.0 | 2.37 |
|       | 80     | 72     | 26.4 | 11.8 | 1.75 | 25.0 | 11.4 | 1.95 | 23.6  | 10.9 | 2.16 | 22.0  | 10.4 | 2.40 |
|       | 75     | 63     | 22.8 | 15.2 | 1.72 | 21.7 | 15.2 | 1.90 | 20.5  | 15.0 | 2.11 | 19.1  | 14.7 | 2.35 |
| 850   | 80     | 62     | 23.1 | 20.8 | 1.82 | 22.0 | 20.9 | 2.02 | 20.8  | 20.3 | 2.24 | 19.5  | 19.5 | 2.49 |
|       | 80     | 67     | 25.3 | 17.1 | 1.74 | 24.0 | 16.6 | 1.93 | 22.6  | 16.1 | 2.14 | 21.1  | 15.5 | 2.38 |
|       | 80     | 72     | 27.2 | 12.8 | 1.76 | 25.8 | 12.3 | 1.95 | 24.2  | 11.8 | 2.17 | 22.5  | 11.3 | 2.41 |
|       | 75     | 63     | 23.6 | 17.4 | 1.73 | 22.4 | 17.2 | 1.91 | 21.1  | 16.9 | 2.12 | 19.6  | 16.4 | 2.36 |
| 1000  | 80     | 62     | 24.1 | 22.3 | 1.83 | 23.0 | 21.8 | 2.03 | 21.7  | 21.7 | 2.25 | 20.3  | 20.3 | 2.51 |
|       | 80     | 67     | 25.9 | 18.7 | 1.75 | 24.6 | 18.2 | 1.94 | 23.1  | 17.6 | 2.15 | 21.5  | 17.0 | 2.39 |
|       | 80     | 72     | 27.7 | 13.7 | 1.77 | 26.2 | 13.2 | 1.96 | 24.6  | 12.7 | 2.18 | 22.9  | 12.1 | 2.42 |
|       | 75     | 63     | 24.1 | 19.7 | 1.73 | 22.9 | 19.2 | 1.92 | 21.5  | 18.7 | 2.13 | 20.0  | 18.0 | 2.36 |

### Q4SE-X36K

| O.D.T |        |        | 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. |
| 1200  | 80     | 62     | 32.7 | 28.1 | 2.70 | 31.1 | 28.1 | 2.98 | 29.3  | 28.6 | 3.29 | 27.6  | 27.4 | 3.64 |
|       | 80     | 67     | 35.3 | 22.7 | 2.73 | 33.5 | 22.0 | 3.01 | 31.5  | 21.3 | 3.33 | 29.4  | 20.6 | 3.68 |
|       | 80     | 72     | 37.7 | 17.3 | 2.77 | 39.6 | 17.9 | 2.51 | 41.2  | 18.4 | 2.28 | 42.6  | 18.8 | 2.07 |
|       | 75     | 63     | 32.4 | 23.8 | 2.70 | 30.8 | 23.6 | 2.97 | 29.0  | 23.3 | 3.28 | 27.0  | 22.8 | 3.63 |
| 1350  | 80     | 62     | 33.5 | 29.5 | 2.71 | 31.8 | 30.2 | 2.99 | 30.2  | 29.4 | 3.30 | 28.4  | 28.4 | 3.66 |
|       | 80     | 67     | 35.9 | 24.1 | 2.74 | 34.0 | 23.4 | 3.02 | 32.1  | 22.5 | 3.33 | 29.8  | 21.7 | 3.69 |
|       | 80     | 72     | 38.3 | 18.2 | 2.78 | 40.1 | 18.7 | 2.52 | 41.8  | 19.2 | 2.29 | 43.3  | 19.7 | 2.07 |
|       | 75     | 63     | 33.0 | 25.9 | 2.70 | 31.3 | 25.6 | 2.98 | 29.4  | 25.1 | 3.29 | 27.4  | 24.4 | 3.64 |
| 1500  | 80     | 62     | 34.1 | 31.6 | 2.72 | 32.6 | 31.0 | 3.00 | 30.9  | 30.9 | 3.31 | 29.1  | 29.1 | 3.67 |
|       | 80     | 67     | 36.4 | 25.1 | 2.75 | 34.5 | 24.4 | 3.03 | 32.5  | 23.7 | 3.34 | 30.2  | 22.9 | 3.69 |
|       | 80     | 72     | 38.8 | 19.0 | 2.78 | 40.6 | 19.6 | 2.53 | 42.4  | 20.1 | 2.30 | 43.9  | 20.6 | 2.08 |
|       | 75     | 63     | 33.5 | 28.2 | 2.71 | 31.7 | 27.7 | 2.99 | 29.8  | 26.9 | 3.30 | 27.8  | 25.9 | 3.65 |

**Q4SE-X48K**

| O.D.T |        |        | 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. |
| 1500  | 80     | 62     | 48.9 | 22.6 | 3.70 | 46.3 | 22.9 | 4.03 | 43.4  | 24.1 | 4.39 | 40.3  | 23.4 | 4.80 |
|       | 80     | 67     | 45.7 | 29.7 | 3.65 | 43.4 | 28.8 | 3.98 | 40.7  | 27.8 | 4.34 | 37.9  | 26.7 | 4.74 |
|       | 80     | 72     | 48.9 | 22.6 | 3.70 | 46.3 | 21.7 | 4.03 | 43.4  | 20.8 | 4.39 | 40.3  | 19.7 | 4.80 |
|       | 75     | 63     | 41.9 | 30.7 | 3.59 | 39.7 | 30.7 | 3.91 | 37.3  | 30.2 | 4.28 | 34.7  | 29.4 | 4.67 |
| 1650  | 80     | 62     | 49.5 | 23.5 | 3.71 | 46.8 | 24.9 | 4.04 | 43.9  | 24.9 | 4.40 | 40.7  | 24.6 | 4.81 |
|       | 80     | 67     | 46.4 | 31.2 | 3.66 | 44.0 | 30.2 | 3.99 | 41.3  | 29.2 | 4.35 | 38.4  | 28.1 | 4.76 |
|       | 80     | 72     | 49.5 | 23.5 | 3.71 | 46.8 | 22.6 | 4.04 | 43.9  | 21.6 | 4.40 | 40.7  | 20.5 | 4.81 |
|       | 75     | 63     | 42.6 | 33.4 | 3.60 | 40.3 | 33.0 | 3.92 | 37.9  | 32.2 | 4.29 | 35.2  | 31.2 | 4.68 |
| 1800  | 80     | 62     | 50.1 | 25.6 | 3.72 | 47.3 | 25.8 | 4.05 | 44.4  | 26.8 | 4.41 | 41.1  | 25.3 | 4.82 |
|       | 80     | 67     | 47.0 | 32.6 | 3.67 | 44.5 | 31.7 | 4.00 | 41.8  | 30.6 | 4.36 | 38.8  | 29.4 | 4.77 |
|       | 80     | 72     | 50.1 | 24.3 | 3.72 | 47.3 | 23.4 | 4.05 | 44.4  | 22.4 | 4.41 | 41.1  | 21.2 | 4.82 |
|       | 75     | 63     | 43.1 | 36.3 | 3.61 | 40.8 | 35.4 | 3.93 | 38.4  | 34.3 | 4.30 | 35.6  | 32.9 | 4.69 |

**Q4SE-X60K**

| O.D.T |        |        | 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.  |
| 1600  | 80     | 62     | 52.0 | 41.5 | 4.47  | 49.4 | 41.6 | 4.95  | 46.6  | 42.7 | 5.46  | 43.5  | 41.7 | 6.03  |
|       | 80     | 67     | 56.3 | 34.3 | 4.55  | 53.5 | 33.3 | 5.02  | 50.4  | 32.2 | 5.56  | 47.0  | 31.0 | 6.13  |
|       | 80     | 72     | 61.5 | 26.3 | 4.64  | 58.2 | 25.4 | 5.12  | 54.5  | 24.5 | 5.65  | 50.7  | 23.4 | 6.23  |
|       | 75     | 63     | 51.7 | 35.5 | 10.59 | 49.2 | 35.6 | 10.60 | 46.3  | 35.1 | 10.60 | 43.2  | 34.3 | 10.55 |
| 1800  | 80     | 62     | 53.2 | 44.2 | 4.49  | 50.6 | 45.6 | 4.97  | 47.7  | 45.2 | 5.49  | 44.5  | 44.5 | 6.06  |
|       | 80     | 67     | 57.6 | 36.5 | 4.57  | 54.6 | 35.5 | 5.05  | 51.4  | 34.4 | 5.58  | 47.8  | 33.2 | 6.15  |
|       | 80     | 72     | 62.1 | 27.7 | 4.66  | 59.0 | 26.8 | 5.14  | 55.4  | 25.8 | 5.67  | 51.6  | 24.6 | 6.25  |
|       | 75     | 63     | 52.9 | 39.2 | 10.59 | 50.2 | 38.8 | 10.58 | 47.3  | 37.6 | 10.58 | 44.0  | 36.6 | 10.58 |
| 2000  | 80     | 62     | 54.4 | 48.0 | 4.51  | 51.7 | 47.8 | 4.99  | 48.6  | 48.6 | 5.51  | 45.7  | 45.7 | 6.09  |
|       | 80     | 67     | 58.6 | 38.7 | 4.59  | 55.5 | 37.6 | 5.06  | 52.2  | 36.5 | 5.60  | 48.6  | 34.7 | 6.17  |
|       | 80     | 72     | 63.2 | 29.0 | 4.68  | 59.9 | 28.1 | 5.16  | 56.2  | 27.0 | 5.69  | 52.3  | 25.9 | 6.27  |
|       | 75     | 63     | 54.0 | 42.5 | 10.56 | 51.2 | 41.7 | 10.56 | 48.1  | 40.5 | 10.56 | 44.7  | 39.1 | 10.56 |

### Q4SE X24

|      |                    | OUTDOOR TEMPERATURE (Deg. F) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|--------------------|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| CFM  | Indoor T.<br>Deg.F | 10                           |      |      | 17   |      |      | 20   |      |      | 30   |      |      | 40   |      |      | 47   |      |      | 50   |      |      | 60   |      |      |
|      |                    | MBH                          | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   |
| 700  | 60                 | 10.0                         | 1.88 | 1.57 | 12.6 | 2.31 | 1.60 | 13.7 | 2.49 | 1.61 | 17.3 | 3.06 | 1.66 | 21.0 | 3.61 | 1.70 | 23.5 | 3.98 | 1.73 | 24.6 | 4.13 | 1.75 | 28.2 | 4.62 | 1.79 |
|      | 70                 | 9.5                          | 1.83 | 1.52 | 11.9 | 2.22 | 1.57 | 12.9 | 2.38 | 1.59 | 16.3 | 2.88 | 1.66 | 19.7 | 3.34 | 1.73 | 22.1 | 3.64 | 1.78 | 23.1 | 3.77 | 1.80 | 26.5 | 4.16 | 1.86 |
|      | 80                 | 8.9                          | 1.74 | 1.50 | 11.1 | 2.10 | 1.55 | 12.1 | 2.24 | 1.58 | 15.2 | 2.69 | 1.66 | 18.4 | 3.10 | 1.73 | 20.6 | 3.37 | 1.79 | 21.5 | 3.48 | 1.81 | 24.7 | 3.82 | 1.89 |
| 850  | 60                 | 10.1                         | 1.82 | 1.63 | 12.8 | 2.25 | 1.66 | 13.9 | 2.43 | 1.67 | 17.6 | 3.01 | 1.71 | 21.3 | 3.57 | 1.75 | 23.9 | 3.94 | 1.78 | 25.1 | 4.09 | 1.80 | 28.8 | 4.59 | 1.84 |
|      | 70                 | 9.7                          | 1.78 | 1.60 | 12.1 | 2.16 | 1.64 | 13.1 | 2.32 | 1.66 | 16.6 | 2.83 | 1.72 | 20.1 | 3.30 | 1.79 | 22.5 | 3.61 | 1.83 | 23.5 | 3.73 | 1.85 | 27.0 | 4.14 | 1.91 |
|      | 80                 | 9.1                          | 1.70 | 1.56 | 11.4 | 2.05 | 1.62 | 12.3 | 2.20 | 1.64 | 15.6 | 2.65 | 1.72 | 18.8 | 3.06 | 1.80 | 21.1 | 3.33 | 1.86 | 22.1 | 3.44 | 1.88 | 25.3 | 3.79 | 1.96 |
| 1000 | 60                 | 10.4                         | 1.80 | 1.69 | 13.0 | 2.22 | 1.72 | 14.1 | 2.40 | 1.73 | 17.9 | 2.98 | 1.76 | 21.7 | 3.53 | 1.80 | 24.3 | 3.91 | 1.83 | 25.5 | 4.07 | 1.84 | 29.2 | 4.58 | 1.87 |
|      | 70                 | 9.8                          | 1.75 | 1.65 | 12.3 | 2.13 | 1.69 | 13.4 | 2.29 | 1.71 | 16.9 | 2.80 | 1.77 | 20.5 | 3.27 | 1.84 | 23.0 | 3.58 | 1.88 | 24.0 | 3.71 | 1.90 | 27.6 | 4.13 | 1.96 |
|      | 80                 | 9.3                          | 1.67 | 1.63 | 11.6 | 2.02 | 1.68 | 12.6 | 2.16 | 1.70 | 15.8 | 2.61 | 1.78 | 19.1 | 3.01 | 1.86 | 21.4 | 3.28 | 1.92 | 22.4 | 3.39 | 1.94 | 25.7 | 3.74 | 2.02 |

### Q4SE X36

|      |                    | OUTDOOR TEMPERATURE (Deg. F) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|--------------------|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| CFM  | Indoor T.<br>Deg.F | 10                           |      |      | 17   |      |      | 20   |      |      | 30   |      |      | 40   |      |      | 47   |      |      | 50   |      |      | 60   |      |      |
|      |                    | MBH                          | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   |
| 1200 | 60                 | 15.0                         | 1.96 | 2.24 | 18.6 | 2.38 | 2.29 | 20.1 | 2.55 | 2.31 | 25.2 | 3.09 | 2.39 | 30.3 | 3.60 | 2.47 | 33.9 | 3.94 | 2.52 | 35.4 | 4.08 | 2.55 | 40.5 | 4.53 | 2.62 |
|      | 70                 | 14.3                         | 1.83 | 2.29 | 17.8 | 2.21 | 2.36 | 19.2 | 2.36 | 2.39 | 24.1 | 2.85 | 2.48 | 29.0 | 3.31 | 2.57 | 32.4 | 3.61 | 2.64 | 33.9 | 3.73 | 2.66 | 38.8 | 4.13 | 2.76 |
|      | 80                 | 13.8                         | 1.70 | 2.37 | 17.0 | 2.04 | 2.44 | 18.4 | 2.18 | 2.47 | 23.1 | 2.63 | 2.57 | 27.8 | 3.04 | 2.68 | 31.0 | 3.31 | 2.75 | 32.4 | 3.43 | 2.78 | 37.1 | 3.78 | 2.88 |
| 1350 | 60                 | 15.1                         | 1.94 | 2.29 | 18.7 | 2.35 | 2.34 | 20.3 | 2.52 | 2.36 | 25.5 | 3.08 | 2.43 | 30.7 | 3.60 | 2.50 | 34.4 | 3.94 | 2.55 | 35.9 | 4.09 | 2.58 | 41.1 | 4.55 | 2.65 |
|      | 70                 | 14.5                         | 1.81 | 2.35 | 18.0 | 2.19 | 2.41 | 19.5 | 2.35 | 2.44 | 24.5 | 2.84 | 2.52 | 29.4 | 3.31 | 2.61 | 32.9 | 3.61 | 2.67 | 34.4 | 3.74 | 2.70 | 39.4 | 4.15 | 2.78 |
|      | 80                 | 13.9                         | 1.68 | 2.43 | 17.3 | 2.03 | 2.49 | 18.7 | 2.17 | 2.52 | 23.4 | 2.62 | 2.62 | 28.2 | 3.04 | 2.72 | 31.5 | 3.32 | 2.78 | 32.9 | 3.44 | 2.81 | 37.7 | 3.80 | 2.91 |
| 1500 | 60                 | 15.2                         | 1.91 | 2.34 | 18.9 | 2.33 | 2.38 | 20.5 | 2.50 | 2.40 | 25.8 | 3.06 | 2.47 | 31.1 | 3.59 | 2.54 | 34.8 | 3.94 | 2.59 | 36.3 | 4.08 | 2.61 | 41.6 | 4.56 | 2.68 |
|      | 70                 | 14.7                         | 1.80 | 2.40 | 18.2 | 2.18 | 2.45 | 19.7 | 2.34 | 2.48 | 24.8 | 2.84 | 2.56 | 29.8 | 3.31 | 2.65 | 33.4 | 3.62 | 2.70 | 34.9 | 3.75 | 2.73 | 39.9 | 4.16 | 2.81 |
|      | 80                 | 14.1                         | 1.67 | 2.48 | 17.5 | 2.02 | 2.54 | 18.9 | 2.16 | 2.57 | 23.7 | 2.61 | 2.66 | 28.5 | 3.04 | 2.75 | 31.9 | 3.32 | 2.82 | 33.3 | 3.43 | 2.85 | 38.1 | 3.80 | 2.94 |

## Q4SE X48

|      |           | OUTDOOR TEMPERATURE (Deg. F) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|-----------|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| CFM  | Indoor T. | 10                           |      |      | 17   |      |      | 20   |      |      | 30   |      |      | 40   |      |      | 47   |      |      | 50   |      |      | 60   |      |      |
|      | Deg.F     | MBH                          | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   |
| 1500 | 60        | 16.5                         | 1.91 | 2.54 | 21.6 | 2.40 | 2.64 | 23.8 | 2.60 | 2.68 | 31.0 | 3.22 | 2.83 | 38.2 | 3.78 | 2.97 | 43.3 | 4.14 | 3.07 | 45.5 | 4.29 | 3.11 | 52.7 | 4.75 | 3.25 |
|      | 70        | 15.8                         | 1.75 | 2.65 | 20.7 | 2.21 | 2.76 | 22.9 | 2.39 | 2.81 | 29.9 | 2.96 | 2.96 | 36.9 | 3.47 | 3.12 | 41.8 | 3.80 | 3.23 | 43.9 | 3.93 | 3.28 | 51.0 | 4.35 | 3.44 |
|      | 80        | 15.3                         | 1.61 | 2.78 | 20.0 | 2.03 | 2.89 | 22.1 | 2.20 | 2.95 | 28.9 | 2.72 | 3.12 | 35.7 | 3.19 | 3.29 | 40.5 | 3.48 | 3.40 | 42.5 | 3.61 | 3.46 | 49.3 | 3.99 | 3.63 |
| 1650 | 60        | 16.7                         | 1.89 | 2.59 | 21.8 | 2.38 | 2.68 | 24.0 | 2.58 | 2.72 | 31.3 | 3.21 | 2.86 | 38.6 | 3.79 | 2.99 | 43.8 | 4.16 | 3.09 | 46.0 | 4.31 | 3.13 | 53.3 | 4.79 | 3.26 |
|      | 70        | 16.0                         | 1.74 | 2.70 | 21.0 | 2.20 | 2.80 | 23.1 | 2.38 | 2.85 | 30.2 | 2.96 | 3.00 | 37.3 | 3.48 | 3.15 | 42.3 | 3.82 | 3.25 | 44.4 | 3.95 | 3.30 | 51.5 | 4.39 | 3.45 |
|      | 80        | 15.4                         | 1.60 | 2.82 | 20.3 | 2.02 | 2.94 | 22.3 | 2.19 | 2.99 | 29.2 | 2.72 | 3.15 | 36.1 | 3.20 | 3.31 | 40.9 | 3.51 | 3.42 | 43.0 | 3.63 | 3.47 | 49.9 | 4.03 | 3.63 |
| 1800 | 60        | 16.8                         | 1.87 | 2.63 | 22.0 | 2.37 | 2.72 | 24.2 | 2.57 | 2.76 | 31.6 | 3.20 | 2.89 | 39.0 | 3.78 | 3.02 | 44.2 | 4.16 | 3.12 | 46.4 | 4.31 | 3.16 | 53.8 | 4.80 | 3.29 |
|      | 70        | 16.2                         | 1.74 | 2.74 | 21.3 | 2.19 | 2.84 | 23.4 | 2.38 | 2.88 | 30.6 | 2.96 | 3.03 | 37.7 | 3.49 | 3.17 | 42.8 | 3.83 | 3.27 | 44.9 | 3.97 | 3.32 | 52.1 | 4.41 | 3.46 |
|      | 80        | 15.6                         | 1.60 | 2.87 | 20.5 | 2.02 | 2.98 | 22.6 | 2.19 | 3.02 | 29.5 | 2.72 | 3.18 | 36.5 | 3.21 | 3.33 | 41.3 | 3.52 | 3.44 | 43.4 | 3.65 | 3.49 | 50.4 | 4.05 | 3.65 |

## Q4SE X60

|      |           | OUTDOOR TEMPERATURE (Deg. F) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|-----------|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| CFM  | Indoor T. | 10                           |      |      | 17   |      |      | 20   |      |      | 30   |      |      | 40   |      |      | 47   |      |      | 50   |      |      | 60   |      |      |
|      | Deg.F     | MBH                          | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   | MBH  | COP  | kW   |
| 1600 | 60        | 27.3                         | 2.85 | 2.81 | 32.8 | 3.10 | 3.10 | 35.1 | 3.20 | 3.22 | 42.9 | 3.47 | 3.63 | 50.7 | 3.69 | 4.04 | 56.2 | 3.81 | 4.32 | 58.5 | 3.86 | 4.44 | 66.3 | 4.01 | 4.85 |
|      | 70        | 26.4                         | 2.61 | 2.97 | 31.8 | 2.84 | 3.28 | 34.1 | 2.93 | 3.41 | 41.7 | 3.18 | 3.85 | 49.4 | 3.37 | 4.29 | 54.8 | 3.49 | 4.60 | 57.0 | 3.53 | 4.73 | 64.7 | 3.67 | 5.17 |
|      | 80        | 25.9                         | 2.42 | 3.15 | 31.1 | 2.62 | 3.48 | 33.4 | 2.70 | 3.63 | 40.8 | 2.91 | 4.11 | 48.2 | 3.08 | 4.59 | 53.4 | 3.18 | 4.92 | 55.7 | 3.22 | 5.07 | 63.1 | 3.34 | 5.55 |
| 1800 | 60        | 27.6                         | 2.82 | 2.87 | 33.1 | 3.10 | 3.14 | 35.5 | 3.20 | 3.26 | 43.4 | 3.49 | 3.65 | 51.4 | 3.73 | 4.04 | 56.9 | 3.87 | 4.31 | 59.3 | 3.93 | 4.43 | 67.2 | 4.09 | 4.82 |
|      | 70        | 26.8                         | 2.60 | 3.03 | 32.2 | 2.84 | 3.32 | 34.5 | 2.94 | 3.45 | 42.3 | 3.21 | 3.87 | 50.0 | 3.42 | 4.29 | 55.4 | 3.55 | 4.58 | 57.7 | 3.60 | 4.71 | 65.5 | 3.74 | 5.13 |
|      | 80        | 26.2                         | 2.39 | 3.21 | 31.5 | 2.61 | 3.53 | 33.7 | 2.70 | 3.66 | 41.3 | 2.94 | 4.12 | 48.8 | 3.13 | 4.57 | 54.1 | 3.24 | 4.89 | 56.4 | 3.29 | 5.03 | 63.9 | 3.42 | 5.48 |
| 2000 | 60        | 27.7                         | 2.78 | 2.91 | 33.3 | 3.07 | 3.18 | 35.7 | 3.18 | 3.30 | 43.8 | 3.49 | 3.68 | 51.8 | 3.75 | 4.06 | 57.5 | 3.90 | 4.32 | 59.9 | 3.96 | 4.44 | 68.0 | 4.14 | 4.82 |
|      | 70        | 27.1                         | 2.58 | 3.08 | 32.6 | 2.84 | 3.37 | 34.9 | 2.94 | 3.49 | 42.7 | 3.22 | 3.89 | 50.5 | 3.45 | 4.30 | 56.0 | 3.59 | 4.58 | 58.3 | 3.64 | 4.70 | 66.1 | 3.80 | 5.11 |
|      | 80        | 26.5                         | 2.38 | 3.27 | 31.8 | 2.61 | 3.57 | 34.1 | 2.70 | 3.70 | 41.7 | 2.96 | 4.14 | 49.3 | 3.16 | 4.57 | 54.6 | 3.29 | 4.88 | 56.9 | 3.33 | 5.01 | 64.5 | 3.48 | 5.44 |

## ACCESSORIES

| Description                                                            | Part Number |
|------------------------------------------------------------------------|-------------|
| Roof Curb (8")                                                         | 547830      |
| Roof Curb (14")                                                        | 547831      |
| Roof Curb (18")                                                        | 547850      |
| Roof Curb (24")                                                        | 547851      |
| Supply/return transition, 16"                                          | 547834      |
| Supply/return transition, 18"                                          | 547835      |
| Concentric diffuser, flush, 16"                                        | 547836      |
| Concentric diffuser, flush, 18"                                        | 547837      |
| Concentric diffuser, step down 16"                                     | 547838      |
| Concentric diffuser, step down 18"                                     | 547839      |
| HOOD TYPE HAIL GUARD 34" X 76" Q4SEX24, X36                            | 547846      |
| HOOD TYPE HAIL GUARD 38" X 76" Q4SEX48, X60                            | 547847      |
| DUCT SMOKE DETECTOR PHOTO ELEC                                         | 558863      |
| MULTI SIGNAL CONTROL                                                   | 547893      |
| SAMPLING TUBE DST3, 2-4'                                               | 558864      |
| SAMPLING TUBE DST5, 4-8'                                               | 558865      |
| Filter Rack, All Downflow Applications (not required with economizer)  | 547885      |
| Horizontal Filter Kit (not required with economizer) Q4SEX24, X36      | 547888      |
| Horizontal Filter Kit (not required with economizer) Q4SEX48, X60      | 547889      |
| Low Ambient Kit                                                        | 918837      |
| Outdoor Thermostat Kit                                                 | 913852      |
| Economizer, downflow w/filter (does not require filter kit) modulating | 558870      |
| Economizer, horizontal modulating                                      | 547841      |
| Power Exhaust, horizontal economizer (special order) 208/230           | 547843      |
| Power Exhaust, downflow economizer (special order) 208/230             | 547842      |
| Skirt trim kit                                                         | 919729      |
| Extreme high wind kit - roof curb mount                                | 903696      |
| Extreme high wind kit - ground mount                                   | 903695      |
| Duct adapter, 14" round (2 each)                                       | 913812A     |
| Control, CO2 sensor, wall mount                                        | 920317      |
| Control, CO2 sensor, duct mount                                        | 920318      |
| Freezestat kit                                                         | 917108      |
| Heater kit - 4 - Pole single circuit adaptor                           | 913350      |
| Heater kit - 6 - Pole single circuit adaptor                           | 913556      |
| Heater kit - Circuit breaker single phase (2-pole)                     | 913554      |



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