

## TECHNICAL SPECIFICATIONS

### DF6SE Series

#### 4-Stage Heat/2-Stage Cool with Variable Speed Blower iHybrid™ Package Units

#### DF6SE up to 14 SEER 2 Ton thru 5 Ton Units

The DF6SE Series dual fuel package units are high efficiency self contained heat pump units that can be installed on the roof or on a slab. The convertible unit design makes installations simple in all applications. Units are ETL and ETLc listed.



### WARRANTY

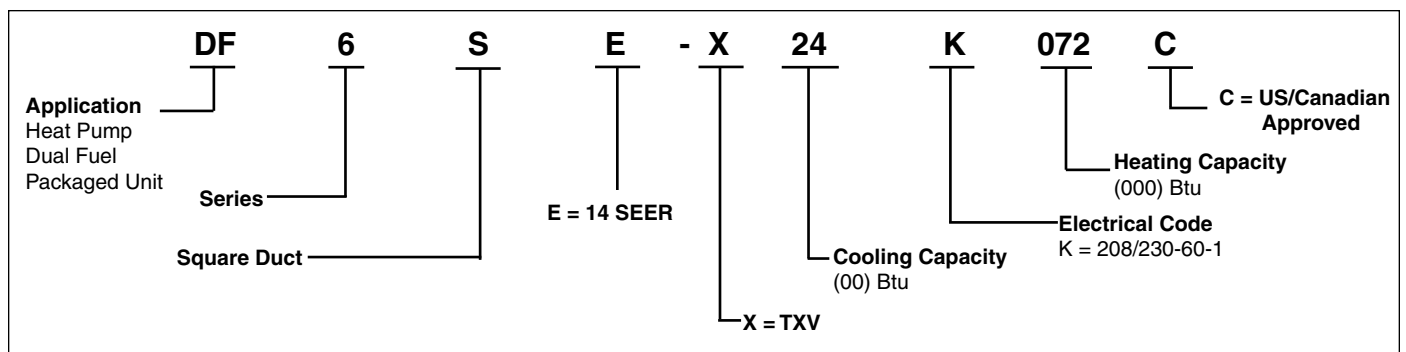
- This product offers a 10-year All-Parts Warranty.
- This product offers a 10 year Quality Pledge to replace the entire unit, if the unit's major component (heat exchanger or compressor) fails within the first 10 years of operation, to the original owner.
- Consumer product registration required for both 10 year All Parts Warranty and Quality Pledge within a limited period of time after the installation. See current warranty document or visit our consumer web site listed on the back of this document for warranty details.

### FEATURES and BENEFITS

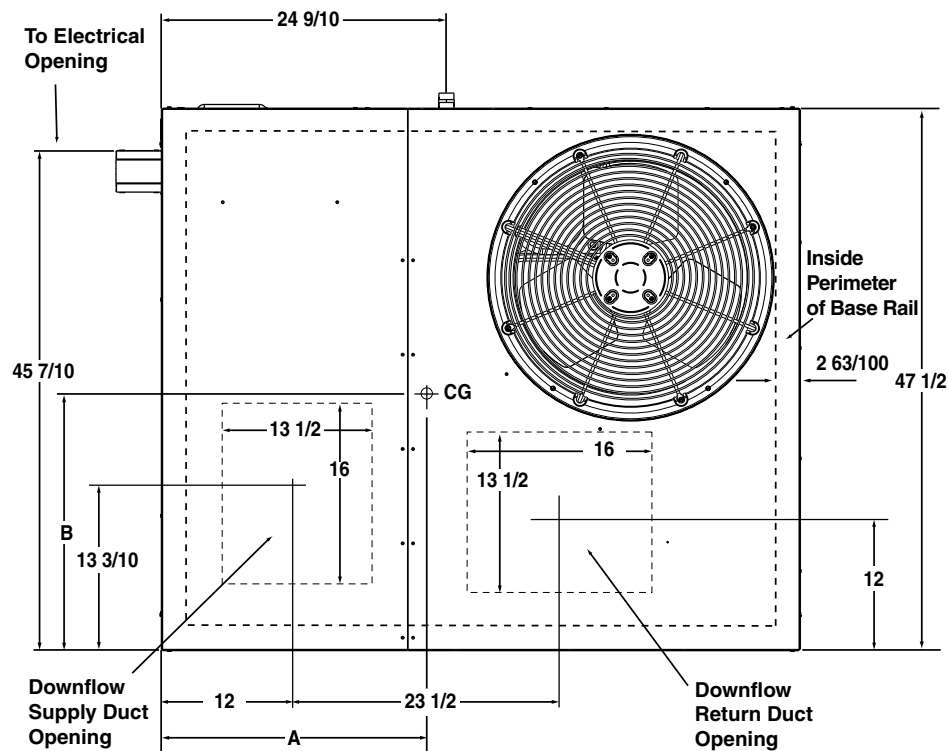
- **Heavy-Gauge, Full Perimeter Base Rails:** Facilitates forklift handling and curb mounting.
- **Compact Footprint/Low Profile:** Easy to handle and transport.
- **Copeland Ultra-Tech Compressor:** 2 stage heat cool.
- **Convertible Air Delivery:** Horizontal or downflow to accommodate rooftop or horizontal application.
- **Galvanized Steel Cabinet:** With polyurethane finish provides 950 hour salt spray protection to resist corrosion.
- **Plastic Coated Coil Guard and Mesh Hail Guard:** Will never rust and protect the coil from being damaged by balls, lawnmowers, hail etc.
- **Accessible Service Ports:** Quick access to refrigerant system without disrupting operation.
- **Hi/Low Pressure Switches:** Added Compressor Protection.
- **Access to Controls and Major Components:** Easy in and out service.
- **Corrosion-Resistant Drain Pan:** Quickly drains away evaporator condensate.
- **Proven, Industry Standard Components:** Easier service and availability.
- **Smaller Panels, Great Fit and Finish, Total Seal:** Well-designed, quality construction. Drip edge on top panels whisks away rainwater. Embossed bottom pan keeps blower compartment dry.
- **Thermal Expansion Valve:** Factory installed externally equalized thermal expansion valve provides precise refrigerant control under varying load conditions.
- **R-410A Refrigerant:** Environmentally friendly.
- **ECM Variable Speed 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.
- **Quiet Operation:** Low vibration. 20" swept wing fan blade combined with custom venturi condenser fan. Compressor sound blanket.



## MODEL IDENTIFICATION CODE



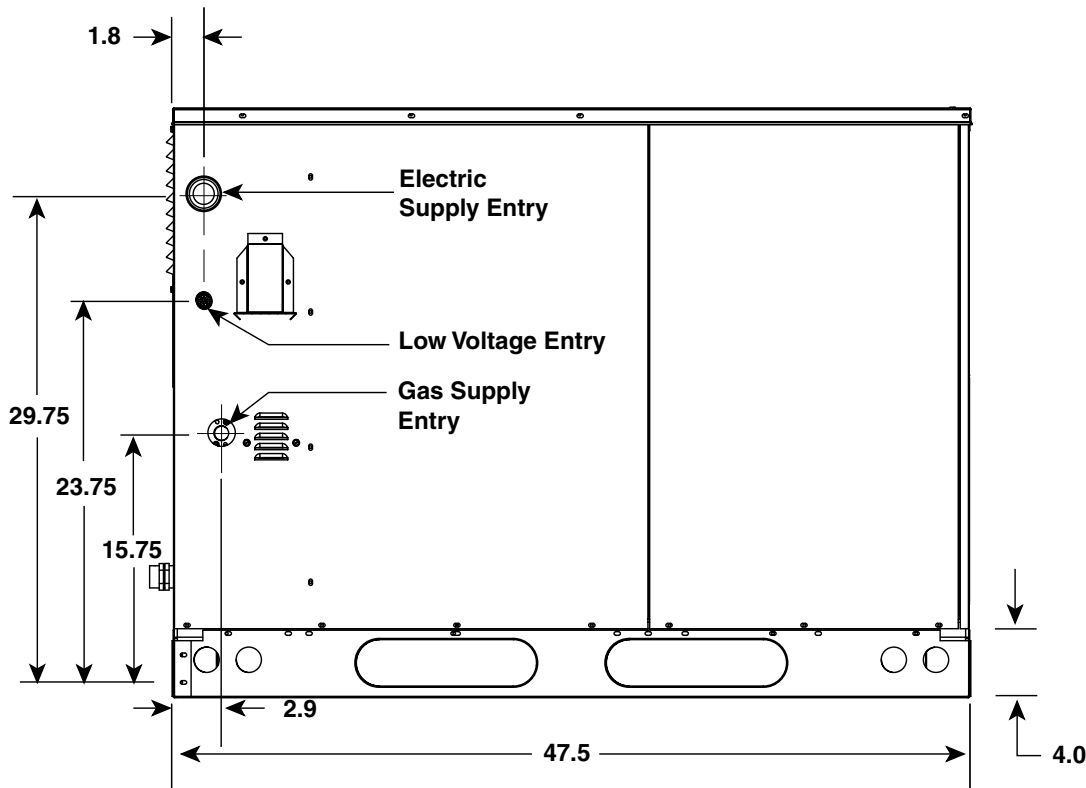
## DIMENSIONS



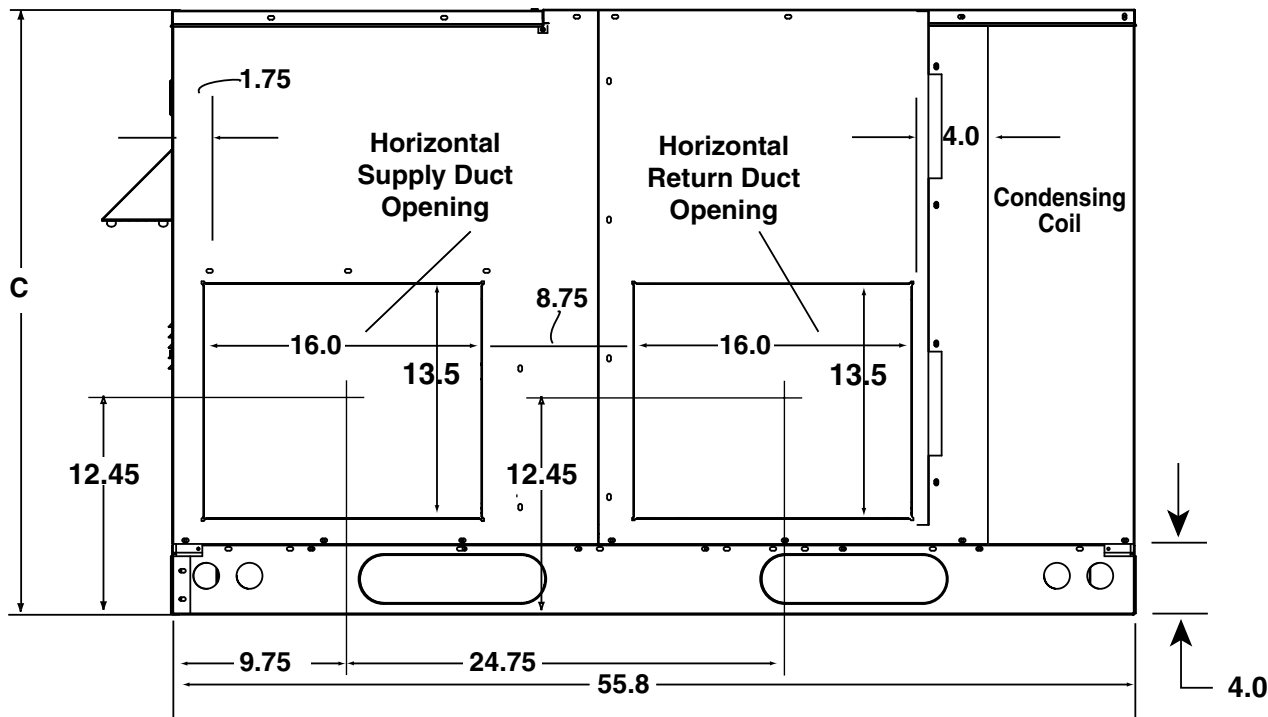
Top View

| Model Number<br>14 SEER | Unit Weight | Shipping Weight | Center of Gravity |      | Height (in inches) C |                    |
|-------------------------|-------------|-----------------|-------------------|------|----------------------|--------------------|
|                         |             |                 | A                 | B    | with base rails      | without base rails |
| X24K***C                | 480         | 490             | 26.0              | 27.0 | 39.0                 | 35.3               |
| X36K***C                | 480         | 490             | 26.0              | 27.0 | 39.0                 | 35.3               |
| X48K***C                | 570         | 580             | 27.0              | 26.5 | 43.0                 | 39.3               |
| X60K***C                | 580         | 590             | 27.0              | 26.5 | 43.0                 | 39.3               |

DIMENSIONS (Continued)



Side View



Back View

## SPECIFICATIONS AND ELECTRICAL DATA

### SINGLE PHASE

| MODEL                            | DF6SE-<br>X24K045C | DF6SE-<br>X24K072C | DF6SE-<br>X36K072C | DF6SE-<br>X36K096C | DF6SE-<br>X48K096C | DF6SE-<br>X48K120C | DF6SE-<br>X60K096C | DF6SE-<br>X60K120C |
|----------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| <b>Performance (Gas)</b>         |                    |                    |                    |                    |                    |                    |                    |                    |
| Heating Input High/Low Btuh      | 45,000 / 31,500    | 72,000 / 50,400    | 72,000 / 50,400    | 96,000 / 67,200    | 96,000 / 67,200    | 120,000 / 84,000   | 96,000 / 67,200    | 120,000 / 84,000   |
| Heating Output High/Low Btuh     | 35,100 / 24,570    | 57,600 / 40,320    | 57,600 / 40,320    | 76,800 / 53,760    | 76,800 / 53,760    | 96,000 / 67,200    | 76,800 / 53,760    | 96,000 / 67,200    |
| AFUE                             | 78                 | 80                 | 80                 | 80                 | 80                 | 80                 | 80                 | 80                 |
| <b>Performance (Electric)</b>    |                    |                    |                    |                    |                    |                    |                    |                    |
| Efficiency -- SEER               | 14.00              | 14.00              | 14.00              | 14.00              | 14.00              | 14.00              | 14.00              | 14.00              |
| Efficiency -- EER (Btuh/Watt)    | 11.0               | 11.0               | 11.0               | 11.0               | 10.0               | 10.0               | 10.1               | 10.1               |
| Capacity - Heating               | 22,200             | 22,200             | 33,000             | 33,000             | 42,500             | 42,500             | 56,500             | 56,500             |
| Efficiency - HSPF                | 8.0                | 8.0                | 8.0                | 8.0                | 8.0                | 8.0                | 8.0                | 8.0                |
| Capacity - Cooling               | 23,400             | 23,400             | 34,000             | 34,000             | 44,000             | 44,000             | 55,500             | 55,500             |
| <b>Electrical Rating - 60 Hz</b> |                    |                    |                    |                    |                    |                    |                    |                    |
| Phase                            | 1                  | 1                  | 1                  | 1                  | 1                  | 1                  | 1                  | 1                  |
| Operating Voltage Range          | 187 - 253          | 187 - 253          | 187 - 253          | 187 - 253          | 187 - 253          | 187 - 253          | 187 - 253          | 187 - 253          |
| Minimum Circuit Ampacity         | 21.3               | 21.3               | 33.1               | 33.1               | 42.0               | 42.0               | 44.5               | 44.5               |
| Max. Overcurrent Protection      | 30                 | 30                 | 50                 | 50                 | 60                 | 60                 | 60                 | 60                 |
| <b>Compressor Data</b>           |                    |                    |                    |                    |                    |                    |                    |                    |
| Volts                            | 208 / 230          | 208 / 230          | 208 / 230          | 208 / 230          | 208 / 230          | 208 / 230          | 208 / 230          | 208 / 230          |
| Rated Load Amps                  | 11.4               | 11.4               | 19                 | 19                 | 24                 | 24                 | 26                 | 26                 |
| Lock Rotor Amps                  | 52                 | 52                 | 82                 | 82                 | 96                 | 96                 | 118                | 118                |
| <b>Indoor Blower</b>             |                    |                    |                    |                    |                    |                    |                    |                    |
| Wheel Diameter                   | 10 x 10            | 10 x 10            | 10 x 10            | 10 x 10            | 11 x 10            | 11 x 10            | 11 x 10            | 11 x 10            |
| Motor Type                       | Variable Speed     | Variable Speed     | Variable Speed     | Variable Speed     | Variable Speed     | Variable Speed     | Variable Speed     | Variable Speed     |
| Motor HP                         | 1/2                | 1/2                | 3/4                | 3/4                | 1                  | 1                  | 1                  | 1                  |
| Motor Amps                       | 4.3                | 4.3                | 6.8                | 6.8                | 9.1                | 9.1                | 9.1                | 9.1                |
| <b>Outdoor Fan</b>               |                    |                    |                    |                    |                    |                    |                    |                    |
| Motor HP                         | 1/4                | 1/4                | 1/4                | 1/4                | 1/3                | 1/3                | 1/3                | 1/3                |
| Motor Amps                       | 1.4                | 1.4                | 1.2                | 1.2                | 1.5                | 1.5                | 1.5                | 1.5                |
| Fan Diameter/CFM                 | 20" / 3200         | 20" / 3200         | 20" / 3350         | 20" / 3350         | 20" / 3500         | 20" / 3500         | 20" / 3500         | 20" / 3500         |
| <b>Refrigerant Charge (oz)</b>   | 120.0              | 120.0              | 126.4              | 126.4              | 264                | 264                | 243.2              | 243.2              |

## AIRFLOW DATA

| Model Number<br>DF6SE | Heating Input<br>(Btuh) | Heating Output<br>(Btuh) | Heat Switch<br>Setting | CFM  | Heating Rise<br>Range (°F) | Cooling Output<br>(Btuh) | Blower Size | Motor HP |
|-----------------------|-------------------------|--------------------------|------------------------|------|----------------------------|--------------------------|-------------|----------|
| X24K045C              | 45,000                  | 35,100                   | 0,0                    | 732  | 35-65                      | 23,400                   | 10 X 10     | 1/2      |
|                       | 31,500                  | 24,570                   | 0,0                    | 550  |                            |                          |             |          |
| X24K072C              | 72,000                  | 57,600                   | 1,1                    | 1062 | 35-65                      | 23,400                   | 10 X 10     | 1/2      |
|                       | 50,400                  | 40,320                   | 1,1                    | 900  |                            |                          |             |          |
| X36K072C              | 72,000                  | 57,600                   | 1,0                    | 1240 | 40-70                      | 34,000                   | 10 X 10     | 3/4      |
|                       | 50,400                  | 40,320                   | 1,0                    | 800  |                            |                          |             |          |
| X36K096C              | 96,000                  | 76,800                   | 0,1                    | 1640 | 45-75                      | 34,000                   | 10 X 10     | 3/4      |
|                       | 67,200                  | 53,760                   | 0,1                    | 1000 |                            |                          |             |          |
| X48K096C              | 96,000                  | 76,800                   | 1,0                    | 1395 | 45-75                      | 44,000                   | 11 X 10     | 1        |
|                       | 67,200                  | 53,760                   | 1,0                    | 900  |                            |                          |             |          |
| X48K120C              | 120,000                 | 96,000                   | 1,1                    | 2005 | 40-70                      | 44,000                   | 11 X 10     | 1        |
|                       | 84,000                  | 67,200                   | 1,1                    | 1200 |                            |                          |             |          |
| X60K096C              | 96,000                  | 76,800                   | 1,0                    | 1395 | 45-75                      | 55,500                   | 11 X 10     | 1        |
|                       | 67,200                  | 53,760                   | 1,0                    | 900  |                            |                          |             |          |
| X60K120C              | 120,000                 | 96,000                   | 1,1                    | 2005 | 40-70                      | 55,500                   | 11 X 10     | 1        |
|                       | 84,000                  | 67,200                   | 1,1                    | 1200 |                            |                          |             |          |

NOTE: CFM and Rise are independent of ESP in a variable speed blower.

## Cooling Airflow Settings

| SWITCH NUMBER |   |   |   | RECOMMENDED<br>A/C AIRFLOW<br>RATE (CFM) | SWITCH NUMBER |   |   |   | RECOMMENDED<br>A/C AIRFLOW<br>RATE (CFM) | SWITCH NUMBER |   |   |   | RECOMMENDED<br>A/C AIRFLOW<br>RATE (CFM) |
|---------------|---|---|---|------------------------------------------|---------------|---|---|---|------------------------------------------|---------------|---|---|---|------------------------------------------|
| 1             | 2 | 3 | 4 | 2 TON                                    | 1             | 2 | 3 | 4 | 3 TON                                    | 1             | 2 | 3 | 4 | 4-5 TON                                  |
| 0             | 0 | 0 | 1 | 585                                      | 0             | 0 | 0 | 1 | 720                                      | 0             | 0 | 0 | 1 | 1440                                     |
| 0             | 0 | 0 | 0 | 650                                      | 0             | 0 | 0 | 0 | 800                                      | 1             | 0 | 0 | 1 | 1575                                     |
| 0             | 0 | 1 | 0 | 715                                      | 1             | 0 | 0 | 1 | 855                                      | 0             | 0 | 0 | 0 | 1600                                     |
| 1             | 0 | 0 | 1 | 720                                      | 0             | 0 | 1 | 0 | 880                                      | 0             | 1 | 0 | 1 | 1620                                     |
| 1             | 0 | 0 | 0 | <b>800</b>                               | 1             | 0 | 0 | 0 | 950                                      | 1             | 0 | 0 | 0 | 1750                                     |
| 0             | 1 | 0 | 1 | 855                                      | 0             | 1 | 0 | 1 | 990                                      | 1             | 1 | 0 | 1 | 1755                                     |
| 1             | 0 | 1 | 0 | 880                                      | 1             | 0 | 1 | 0 | 1045                                     | 0             | 0 | 1 | 0 | 1760                                     |
| 0             | 1 | 0 | 0 | 950                                      | 0             | 1 | 0 | 0 | 1100                                     | 0             | 1 | 0 | 0 | 1800                                     |
| 1             | 1 | 0 | 1 | 990                                      | 1             | 1 | 0 | 1 | 1170                                     | 1             | 0 | 1 | 0 | 1925                                     |
| 0             | 1 | 1 | 0 | 1045                                     | 0             | 1 | 1 | 0 | 1210                                     | 1             | 1 | 0 | 0 | 1950                                     |
| 1             | 1 | 0 | 0 | 1100                                     | 1             | 1 | 0 | 0 | 1300                                     | 0             | 1 | 1 | 0 | 1980                                     |
| 1             | 1 | 1 | 0 | 1210                                     | 1             | 1 | 1 | 0 | 1430                                     | 1             | 1 | 1 | 0 | 2145                                     |

NOTE: 0 = OFF 1 = ON  
1. Factory Setting in **BOLD**

## Heating Airflow Settings

| Nominal Airflow Rates (CFM) and Temperature Rises (°F) |   |   |   |   |                |    |                 |    |                |    |                 |    |
|--------------------------------------------------------|---|---|---|---|----------------|----|-----------------|----|----------------|----|-----------------|----|
| Switches                                               |   |   |   |   | DF6SE-X24      |    |                 |    |                |    |                 |    |
|                                                        |   |   |   |   | Low Fire Input |    | High Fire Input |    | Low Fire Input |    | High Fire Input |    |
| 5                                                      | 6 | 7 | 8 | 9 | 31,500         |    | 45,000          |    | 50,400         |    | 72,000          |    |
| 0                                                      | 0 | # | # | # | 550            | 41 | 732             | 44 | 550            | 66 | 732             | 71 |
| 1                                                      | 0 | # | # | # | 650            | 35 | 865             | 38 | 650            | 56 | 865             | 60 |
| 0                                                      | 1 | # | # | # | 750            | 30 | 998             | 33 | 750            | 49 | 998             | 52 |
| 1                                                      | 1 | # | # | # | 900            | 25 | 1062            | 31 | 900            | 40 | 1062            | 49 |

| Nominal Airflow Rates (CFM) and Temperature Rises (°F) |   |   |   |   |                |    |                 |    |                |    |                 |    |
|--------------------------------------------------------|---|---|---|---|----------------|----|-----------------|----|----------------|----|-----------------|----|
| Switches                                               |   |   |   |   | DF6SE-X36      |    |                 |    |                |    |                 |    |
|                                                        |   |   |   |   | Low Fire Input |    | High Fire Input |    | Low Fire Input |    | High Fire Input |    |
| 5                                                      | 6 | 7 | 8 | 9 | 50,400         |    | 72,000          |    | 67,200         |    | 96,000          |    |
| 0                                                      | 0 | # | # | # | 700            | 53 | 1170            | 46 | 700            | 71 | 1170            | 61 |
| 1                                                      | 0 | # | # | # | 800            | 47 | 1240            | 43 | 800            | 62 | 1240            | 57 |
| 0                                                      | 1 | # | # | # | 1000           | 37 | 1640            | 33 | 1000           | 50 | 1640            | 43 |
| 1                                                      | 1 | # | # | # | 1200           | 31 | 2005            | 27 | 1200           | 44 | 2005            | 36 |

| Nominal Airflow Rates (CFM) and Temperature Rises (°F) |   |   |   |   |                 |    |                 |    |                |    |                 |    |
|--------------------------------------------------------|---|---|---|---|-----------------|----|-----------------|----|----------------|----|-----------------|----|
| Switches                                               |   |   |   |   | DF6SE-X48 & X60 |    |                 |    |                |    |                 |    |
|                                                        |   |   |   |   | Low Fire Input  |    | High Fire Input |    | Low Fire Input |    | High Fire Input |    |
| 5                                                      | 6 | 7 | 8 | 9 | 67,200          |    | 96,000          |    | 84,000         |    | 120,000         |    |
| 0                                                      | 0 | # | # | # | 750             | 66 | 1253            | 57 | 750            | 83 | 1255            | 71 |
| 1                                                      | 0 | # | # | # | 900             | 55 | 1395            | 51 | 900            | 69 | 1395            | 64 |
| 0                                                      | 1 | # | # | # | 1050            | 47 | 1720            | 41 | 1050           | 59 | 1720            | 52 |
| 1                                                      | 1 | # | # | # | 1200            | 42 | 2005            | 36 | 1200           | 52 | 2005            | 44 |

NOTE: 0 = OFF 1 = ON

# Switch is not used — Can be 0 or 1

1. Recommended temperature rises are highlighted in **BOLD**. Use of any other setting may result in nuisance trips.
2. Areas in grey are not recommended settings.
3. Temperature rises in the table are approximate. Actual temperature rises may vary.

# COOLING EXPANDED RATINGS

DF6SE-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     | 22.4 | 19.1 | 1.82 | 21.3 | 19.2 | 2.02 | 20.0  | 19.5 | 2.24 | 18.8  | 18.6 | 2.49 |
|       | 80     | 67     | 24.2 | 15.5 | 1.84 | 22.9 | 15.1 | 2.04 | 21.5  | 14.6 | 2.26 | 20.0  | 14.1 | 2.51 |
|       | 80     | 72     | 26.5 | 11.7 | 1.86 | 25.0 | 11.3 | 2.07 | 23.4  | 10.9 | 2.30 | 21.6  | 10.4 | 2.55 |
|       | 75     | 63     | 22.6 | 15.3 | 1.82 | 21.4 | 15.3 | 2.02 | 20.1  | 15.2 | 2.24 | 18.6  | 14.8 | 2.49 |
| 800   | 80     | 62     | 23.1 | 20.6 | 1.83 | 22.0 | 20.9 | 2.03 | 20.8  | 20.3 | 2.25 | 19.5  | 19.5 | 2.50 |
|       | 80     | 67     | 24.8 | 16.7 | 1.84 | 23.4 | 16.3 | 2.04 | 21.9  | 15.8 | 2.27 | 20.4  | 15.3 | 2.52 |
|       | 80     | 72     | 26.9 | 12.5 | 1.87 | 25.3 | 12.1 | 2.07 | 23.7  | 11.6 | 2.30 | 22.0  | 11.2 | 2.56 |
|       | 75     | 63     | 23.1 | 17.1 | 1.83 | 21.9 | 16.9 | 2.03 | 20.5  | 16.6 | 2.25 | 19.0  | 16.1 | 2.49 |
| 900   | 80     | 62     | 23.8 | 22.0 | 1.83 | 22.7 | 21.6 | 2.03 | 21.5  | 21.5 | 2.26 | 20.1  | 20.1 | 2.51 |
|       | 80     | 67     | 25.2 | 17.9 | 1.85 | 23.8 | 17.5 | 2.05 | 22.3  | 17.0 | 2.28 | 20.7  | 16.5 | 2.52 |
|       | 80     | 72     | 27.2 | 13.2 | 1.87 | 25.7 | 12.8 | 2.08 | 24.1  | 12.4 | 2.31 | 22.3  | 11.9 | 2.56 |
|       | 75     | 63     | 23.6 | 18.9 | 1.83 | 22.3 | 18.6 | 2.03 | 20.8  | 18.1 | 2.26 | 19.3  | 17.5 | 2.50 |

DF6SE-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 | 32.4 | 2.81 | 31.1 | 31.1 | 3.09 | 29.3  | 29.5 | 3.40 | 27.6  | 27.4 | 3.75 |
|       | 80     | 67     | 35.3 | 27.2 | 2.85 | 33.5 | 26.4 | 3.12 | 31.5  | 25.4 | 3.44 | 29.4  | 24.4 | 3.79 |
|       | 80     | 72     | 37.7 | 22.2 | 2.88 | 39.6 | 23.0 | 2.62 | 41.2  | 23.7 | 2.39 | 42.6  | 24.4 | 2.18 |
|       | 75     | 63     | 32.4 | 23.8 | 2.81 | 30.8 | 23.6 | 3.09 | 29.0  | 23.3 | 3.40 | 27.0  | 22.8 | 3.74 |
| 1350  | 80     | 62     | 33.5 | 33.9 | 2.91 | 31.8 | 32.3 | 3.19 | 30.2  | 30.4 | 3.50 | 28.4  | 28.4 | 3.86 |
|       | 80     | 67     | 35.9 | 28.7 | 2.94 | 34.0 | 27.9 | 3.22 | 32.1  | 26.6 | 3.54 | 29.8  | 25.6 | 3.89 |
|       | 80     | 72     | 38.3 | 23.2 | 2.98 | 40.1 | 24.0 | 2.72 | 41.8  | 24.7 | 2.49 | 43.3  | 25.3 | 2.27 |
|       | 75     | 63     | 33.0 | 25.9 | 2.91 | 31.3 | 25.6 | 3.18 | 29.4  | 25.1 | 3.49 | 27.4  | 24.4 | 3.84 |
| 1500  | 80     | 62     | 34.1 | 34.9 | 3.03 | 32.6 | 33.1 | 3.31 | 30.9  | 30.9 | 3.63 | 29.1  | 29.1 | 3.98 |
|       | 80     | 67     | 36.4 | 29.8 | 3.06 | 34.5 | 28.9 | 3.34 | 32.5  | 27.9 | 3.66 | 30.2  | 26.8 | 4.01 |
|       | 80     | 72     | 38.8 | 24.0 | 3.10 | 40.6 | 24.9 | 2.84 | 42.4  | 25.6 | 2.62 | 43.9  | 26.3 | 2.39 |
|       | 75     | 63     | 33.5 | 28.2 | 3.03 | 31.7 | 27.7 | 3.30 | 29.8  | 26.9 | 3.61 | 27.8  | 25.9 | 3.96 |

DF6SE-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 | 27.5 | 3.97 | 46.3 | 26.4 | 4.30 | 43.4  | 25.1 | 4.66 | 40.3  | 23.4 | 5.07 |
|       | 80     | 67     | 45.7 | 34.2 | 3.92 | 43.4 | 33.1 | 4.25 | 40.7  | 31.9 | 4.61 | 37.9  | 30.5 | 5.01 |
|       | 80     | 72     | 48.9 | 27.5 | 3.97 | 46.3 | 26.4 | 4.30 | 43.4  | 25.1 | 4.66 | 40.3  | 23.8 | 5.07 |
|       | 75     | 63     | 41.9 | 30.7 | 3.86 | 39.7 | 30.7 | 4.18 | 37.3  | 30.2 | 4.55 | 34.7  | 29.4 | 4.94 |
| 1650  | 80     | 62     | 49.5 | 28.4 | 4.12 | 46.8 | 27.3 | 4.45 | 43.9  | 26.0 | 4.81 | 40.7  | 24.6 | 5.22 |
|       | 80     | 67     | 46.4 | 35.8 | 4.07 | 44.0 | 34.6 | 4.40 | 41.3  | 33.3 | 4.76 | 38.4  | 31.9 | 5.17 |
|       | 80     | 72     | 49.5 | 28.4 | 4.12 | 46.8 | 27.3 | 4.45 | 43.9  | 26.0 | 4.81 | 40.7  | 24.6 | 5.22 |
|       | 75     | 63     | 42.6 | 33.4 | 4.01 | 40.3 | 33.0 | 4.33 | 37.9  | 32.2 | 4.70 | 35.2  | 31.2 | 5.09 |
| 1800  | 80     | 62     | 50.1 | 29.3 | 4.30 | 47.3 | 28.1 | 4.63 | 44.4  | 26.8 | 4.99 | 41.1  | 25.3 | 5.40 |
|       | 80     | 67     | 47.0 | 37.3 | 4.25 | 44.5 | 36.1 | 4.58 | 41.8  | 34.8 | 4.94 | 38.8  | 33.3 | 5.34 |
|       | 80     | 72     | 50.1 | 29.3 | 4.30 | 47.3 | 28.1 | 4.63 | 44.4  | 26.8 | 4.99 | 41.1  | 25.3 | 5.40 |
|       | 75     | 63     | 43.1 | 36.3 | 4.19 | 40.8 | 35.4 | 4.51 | 38.4  | 34.3 | 4.87 | 35.6  | 32.9 | 5.27 |

DF6SE-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 | 47.2 | 4.70  | 49.4 | 45.7 | 5.18  | 46.6  | 44.0 | 5.69  | 43.5  | 41.7 | 6.26  |
|       | 80     | 67     | 56.3 | 40.5 | 4.78  | 53.5 | 39.2 | 5.25  | 50.4  | 37.8 | 5.79  | 47.0  | 36.2 | 6.36  |
|       | 80     | 72     | 61.5 | 33.0 | 4.87  | 58.2 | 31.8 | 5.35  | 54.5  | 30.5 | 5.88  | 50.7  | 29.0 | 6.46  |
|       | 75     | 63     | 51.7 | 35.5 | 10.82 | 49.2 | 35.6 | 10.83 | 46.3  | 35.1 | 10.83 | 43.2  | 34.3 | 10.78 |
| 1800  | 80     | 62     | 53.2 | 50.1 | 4.94  | 50.6 | 48.4 | 5.42  | 47.7  | 46.5 | 5.94  | 44.5  | 44.5 | 6.51  |
|       | 80     | 67     | 57.6 | 42.8 | 5.02  | 54.6 | 41.5 | 5.50  | 51.4  | 40.0 | 6.03  | 47.8  | 38.5 | 6.60  |
|       | 80     | 72     | 62.1 | 34.6 | 5.11  | 59.0 | 33.3 | 5.59  | 55.4  | 31.8 | 6.12  | 51.6  | 30.3 | 6.70  |
|       | 75     | 63     | 52.9 | 39.2 | 11.04 | 50.2 | 38.8 | 11.03 | 47.3  | 37.6 | 11.03 | 44.0  | 36.6 | 11.03 |
| 2000  | 80     | 62     | 54.4 | 52.5 | 5.24  | 51.7 | 50.6 | 5.71  | 48.6  | 48.6 | 6.23  | 45.7  | 45.7 | 6.82  |
|       | 80     | 67     | 58.6 | 45.1 | 5.31  | 55.5 | 43.7 | 5.79  | 52.2  | 42.3 | 6.32  | 48.6  | 40.1 | 6.90  |
|       | 80     | 72     | 63.2 | 36.0 | 5.40  | 59.9 | 34.7 | 5.88  | 56.2  | 33.2 | 6.41  | 52.3  | 31.6 | 6.99  |
|       | 75     | 63     | 54.0 | 42.5 | 11.29 | 51.2 | 41.7 | 11.28 | 48.1  | 40.5 | 11.28 | 44.7  | 39.1 | 11.29 |

DF6SE-X24K

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                 | 11.1 | 2.01 | 1.62 | 13.5 | 2.40 | 1.65 | 14.5 | 2.56 | 1.66 | 17.8 | 3.09 | 1.70 | 21.2 | 3.59 | 1.73 | 23.6 | 3.93 | 1.76 | 24.6 | 4.07 | 1.77 | 27.9 | 4.53 | 1.81 |
|     | 70                 | 10.6 | 1.96 | 1.58 | 12.8 | 2.30 | 1.63 | 13.7 | 2.44 | 1.64 | 16.8 | 2.90 | 1.70 | 19.9 | 3.32 | 1.76 | 22.1 | 3.59 | 1.80 | 23.0 | 3.71 | 1.82 | 26.2 | 4.08 | 1.88 |
|     | 80                 | 10.0 | 1.87 | 1.57 | 12.0 | 2.18 | 1.61 | 12.9 | 2.31 | 1.64 | 15.7 | 2.71 | 1.70 | 18.6 | 3.08 | 1.77 | 20.6 | 3.32 | 1.82 | 21.5 | 3.42 | 1.84 | 24.4 | 3.74 | 1.91 |
| 800 | 60                 | 11.2 | 1.97 | 1.66 | 13.6 | 2.36 | 1.69 | 14.6 | 2.52 | 1.70 | 18.0 | 3.05 | 1.73 | 21.4 | 3.56 | 1.77 | 23.8 | 3.90 | 1.79 | 24.9 | 4.04 | 1.80 | 28.3 | 4.51 | 1.84 |
|     | 70                 | 10.7 | 1.92 | 1.63 | 12.9 | 2.27 | 1.67 | 13.9 | 2.41 | 1.69 | 17.0 | 2.86 | 1.74 | 20.2 | 3.29 | 1.80 | 22.4 | 3.57 | 1.84 | 23.3 | 3.69 | 1.86 | 26.5 | 4.06 | 1.91 |
|     | 80                 | 10.1 | 1.84 | 1.60 | 12.2 | 2.15 | 1.65 | 13.0 | 2.28 | 1.68 | 16.0 | 2.68 | 1.75 | 18.9 | 3.05 | 1.82 | 21.0 | 3.29 | 1.87 | 21.9 | 3.39 | 1.89 | 24.8 | 3.71 | 1.96 |
| 900 | 60                 | 11.3 | 1.95 | 1.71 | 13.7 | 2.33 | 1.73 | 14.8 | 2.50 | 1.74 | 18.2 | 3.02 | 1.77 | 21.7 | 3.53 | 1.80 | 24.1 | 3.88 | 1.82 | 25.1 | 4.03 | 1.83 | 28.6 | 4.50 | 1.86 |
|     | 70                 | 10.8 | 1.90 | 1.67 | 13.0 | 2.24 | 1.71 | 14.0 | 2.39 | 1.72 | 17.2 | 2.84 | 1.78 | 20.4 | 3.27 | 1.83 | 22.7 | 3.56 | 1.87 | 23.7 | 3.67 | 1.89 | 26.9 | 4.06 | 1.94 |
|     | 80                 | 10.2 | 1.82 | 1.64 | 12.3 | 2.13 | 1.69 | 13.2 | 2.25 | 1.72 | 16.1 | 2.65 | 1.79 | 19.1 | 3.01 | 1.86 | 21.2 | 3.25 | 1.91 | 22.1 | 3.35 | 1.93 | 25.0 | 3.67 | 2.00 |

DF6SE-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                 | 16.0 | 2.11 | 2.22 | 19.5 | 2.50 | 2.28 | 20.9 | 2.66 | 2.31 | 25.8 | 3.17 | 2.39 | 30.8 | 3.64 | 2.48 | 34.2 | 3.95 | 2.54 | 35.7 | 4.08 | 2.56 | 40.6 | 4.49 | 2.65 |
|      | 70                 | 15.4 | 1.97 | 2.29 | 18.7 | 2.32 | 2.36 | 20.1 | 2.46 | 2.39 | 24.8 | 2.91 | 2.49 | 29.5 | 3.33 | 2.59 | 32.7 | 3.61 | 2.66 | 34.2 | 3.72 | 2.69 | 38.8 | 4.08 | 2.79 |
|      | 80                 | 14.8 | 1.82 | 2.38 | 17.9 | 2.14 | 2.46 | 19.3 | 2.27 | 2.49 | 23.7 | 2.68 | 2.60 | 28.2 | 3.06 | 2.70 | 31.3 | 3.30 | 2.78 | 32.7 | 3.40 | 2.81 | 37.1 | 3.73 | 2.92 |
| 1350 | 60                 | 16.2 | 2.01 | 2.35 | 19.7 | 2.39 | 2.41 | 21.2 | 2.55 | 2.43 | 26.2 | 3.05 | 2.51 | 31.2 | 3.53 | 2.59 | 34.7 | 3.84 | 2.65 | 36.2 | 3.97 | 2.67 | 41.2 | 4.39 | 2.75 |
|      | 70                 | 15.6 | 1.88 | 2.42 | 18.9 | 2.23 | 2.49 | 20.3 | 2.37 | 2.52 | 25.1 | 2.82 | 2.61 | 29.9 | 3.24 | 2.70 | 33.2 | 3.51 | 2.77 | 34.6 | 3.63 | 2.80 | 39.4 | 4.00 | 2.89 |
|      | 80                 | 15.0 | 1.74 | 2.51 | 18.2 | 2.06 | 2.58 | 19.5 | 2.19 | 2.62 | 24.1 | 2.60 | 2.72 | 28.6 | 2.98 | 2.82 | 31.8 | 3.22 | 2.89 | 33.2 | 3.33 | 2.92 | 37.7 | 3.66 | 3.03 |
| 1500 | 60                 | 16.3 | 1.91 | 2.50 | 19.8 | 2.28 | 2.55 | 21.4 | 2.43 | 2.58 | 26.4 | 2.92 | 2.65 | 31.5 | 3.38 | 2.73 | 35.1 | 3.69 | 2.78 | 36.6 | 3.82 | 2.80 | 41.7 | 4.24 | 2.88 |
|      | 70                 | 15.8 | 1.79 | 2.57 | 19.1 | 2.13 | 2.64 | 20.6 | 2.27 | 2.66 | 25.4 | 2.71 | 2.75 | 30.3 | 3.12 | 2.84 | 33.6 | 3.40 | 2.90 | 35.1 | 3.51 | 2.93 | 39.9 | 3.87 | 3.02 |
|      | 80                 | 15.2 | 1.67 | 2.66 | 18.4 | 1.97 | 2.73 | 19.8 | 2.10 | 2.76 | 24.4 | 2.49 | 2.86 | 29.0 | 2.87 | 2.96 | 32.2 | 3.11 | 3.03 | 33.6 | 3.21 | 3.06 | 38.2 | 3.54 | 3.16 |

DF6SE-X48

| 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   |
| 1500                         | 60                 | 22.4 | 1.88 | 3.49 | 26.6 | 2.24 | 3.48 | 28.5 | 2.40 | 3.48 | 34.5 | 2.92 | 3.46 | 40.6 | 3.45 | 3.45 | 44.9 | 3.83 | 3.44 | 46.7 | 3.99 | 3.43 | 52.8 | 4.53 | 3.42 |
|                              | 70                 | 21.6 | 1.68 | 3.76 | 25.7 | 2.02 | 3.74 | 27.5 | 2.16 | 3.73 | 33.4 | 2.65 | 3.70 | 39.3 | 3.14 | 3.67 | 43.4 | 3.49 | 3.65 | 45.2 | 3.64 | 3.64 | 51.1 | 4.15 | 3.61 |
|                              | 80                 | 21.1 | 1.52 | 4.05 | 25.0 | 1.83 | 4.02 | 26.7 | 1.96 | 4.01 | 32.4 | 2.40 | 3.96 | 38.1 | 2.85 | 3.92 | 42.1 | 3.17 | 3.88 | 43.8 | 3.31 | 3.87 | 49.4 | 3.79 | 3.83 |
| 1650                         | 60                 | 22.5 | 1.80 | 3.66 | 26.9 | 2.16 | 3.65 | 28.7 | 2.31 | 3.64 | 34.9 | 2.82 | 3.62 | 41.1 | 3.34 | 3.61 | 45.4 | 3.70 | 3.59 | 47.2 | 3.86 | 3.59 | 53.4 | 4.39 | 3.57 |
|                              | 70                 | 21.8 | 1.63 | 3.92 | 26.0 | 1.96 | 3.90 | 27.8 | 2.10 | 3.89 | 33.8 | 2.57 | 3.86 | 39.7 | 3.05 | 3.82 | 43.9 | 3.39 | 3.80 | 45.7 | 3.54 | 3.79 | 51.7 | 4.03 | 3.76 |
|                              | 80                 | 21.2 | 1.47 | 4.22 | 25.3 | 1.77 | 4.19 | 27.0 | 1.90 | 4.17 | 32.7 | 2.33 | 4.12 | 38.5 | 2.78 | 4.07 | 42.6 | 3.10 | 4.03 | 44.3 | 3.24 | 4.01 | 50.1 | 3.70 | 3.96 |
| 1800                         | 60                 | 22.6 | 1.71 | 3.86 | 27.0 | 2.05 | 3.85 | 28.9 | 2.20 | 3.84 | 35.1 | 2.69 | 3.82 | 41.4 | 3.19 | 3.81 | 45.8 | 3.54 | 3.79 | 47.7 | 3.69 | 3.79 | 54.0 | 4.20 | 3.77 |
|                              | 70                 | 22.1 | 1.56 | 4.13 | 26.3 | 1.88 | 4.10 | 28.1 | 2.01 | 4.09 | 34.1 | 2.34 | 4.27 | 40.1 | 2.93 | 4.02 | 44.4 | 3.26 | 3.99 | 46.2 | 3.40 | 3.98 | 52.2 | 3.88 | 3.94 |
|                              | 80                 | 21.4 | 1.42 | 4.42 | 25.5 | 1.70 | 4.38 | 27.2 | 1.83 | 4.36 | 33.0 | 2.13 | 4.54 | 38.9 | 2.68 | 4.25 | 42.9 | 2.99 | 4.21 | 44.7 | 3.12 | 4.20 | 50.5 | 3.57 | 4.14 |

DF6SE-X60

| 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   |
| 1600                         | 60                 | 31.5 | 2.50 | 3.70 | 36.8 | 2.80 | 3.86 | 39.1 | 2.92 | 3.92 | 46.7 | 3.30 | 4.14 | 54.2 | 3.64 | 4.36 | 59.5 | 3.86 | 4.52 | 61.8 | 3.95 | 4.59 | 69.3 | 4.22 | 4.81 |
|                              | 70                 | 30.6 | 2.23 | 4.02 | 35.8 | 2.51 | 4.18 | 38.0 | 2.62 | 4.24 | 45.4 | 2.98 | 4.46 | 52.9 | 3.31 | 4.68 | 58.0 | 3.51 | 4.84 | 60.3 | 3.60 | 4.91 | 67.7 | 3.87 | 5.13 |
|                              | 80                 | 30.1 | 2.02 | 4.37 | 35.2 | 2.28 | 4.53 | 37.3 | 2.38 | 4.59 | 44.5 | 2.70 | 4.82 | 51.7 | 3.00 | 5.05 | 56.8 | 3.19 | 5.21 | 58.9 | 3.27 | 5.28 | 66.1 | 3.52 | 5.51 |
| 1800                         | 60                 | 31.8 | 2.36 | 3.95 | 37.2 | 2.66 | 4.10 | 39.5 | 2.78 | 4.16 | 47.2 | 3.17 | 4.37 | 54.8 | 3.51 | 4.58 | 60.2 | 3.74 | 4.72 | 62.5 | 3.83 | 4.78 | 70.2 | 4.12 | 4.99 |
|                              | 70                 | 30.9 | 2.13 | 4.27 | 36.2 | 2.41 | 4.41 | 38.5 | 2.52 | 4.47 | 46.0 | 2.88 | 4.68 | 53.5 | 3.21 | 4.89 | 58.7 | 3.42 | 5.03 | 61.0 | 3.51 | 5.09 | 68.5 | 3.79 | 5.30 |
|                              | 80                 | 30.3 | 1.93 | 4.62 | 35.5 | 2.18 | 4.76 | 37.6 | 2.29 | 4.83 | 45.0 | 2.62 | 5.03 | 52.3 | 2.93 | 5.24 | 57.4 | 3.13 | 5.39 | 59.6 | 3.21 | 5.45 | 66.9 | 3.47 | 5.66 |
| 2000                         | 60                 | 31.8 | 2.19 | 4.26 | 37.3 | 2.48 | 4.41 | 39.7 | 2.60 | 4.47 | 47.5 | 2.98 | 4.67 | 55.3 | 3.33 | 4.87 | 60.8 | 3.55 | 5.01 | 63.2 | 3.65 | 5.07 | 71.0 | 3.94 | 5.28 |
|                              | 70                 | 31.3 | 2.00 | 4.59 | 36.6 | 2.27 | 4.72 | 38.9 | 2.38 | 4.78 | 46.4 | 2.74 | 4.97 | 54.0 | 3.06 | 5.17 | 59.3 | 3.28 | 5.30 | 61.6 | 3.36 | 5.36 | 69.1 | 3.65 | 5.55 |
|                              | 80                 | 30.6 | 1.82 | 4.93 | 35.8 | 2.07 | 5.07 | 38.0 | 2.17 | 5.12 | 45.4 | 2.50 | 5.32 | 52.8 | 2.81 | 5.51 | 58.0 | 3.01 | 5.64 | 60.2 | 3.09 | 5.70 | 67.6 | 3.36 | 5.89 |





#### GENERAL TERMS OF LIMITED WARRANTY

NORDYNE will furnish a replacement for any part of this product which fails in normal use and service within the first ten years of installation, in accordance with the terms of the warranty.

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

**NORDYNE** 8000 Phoenix Parkway | O'Fallon MO 63368-3827

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