

## FS4BF-K(A,B) Series

### R-410A Extra High Efficiency Air Conditioner 16 SEER Residential System 2 - 5 Ton Capacity

The FS4BF Series now offers the choice of an air conditioner that uses a more efficient and environmentally friendly refrigerant designated R-410A. The FS4BF-K(A,B) Series air conditioners offers exceptional performance. The unit, when combined with our engineered coils or air handlers, offers a line of quality, 16 SEER split system cooling equipment.



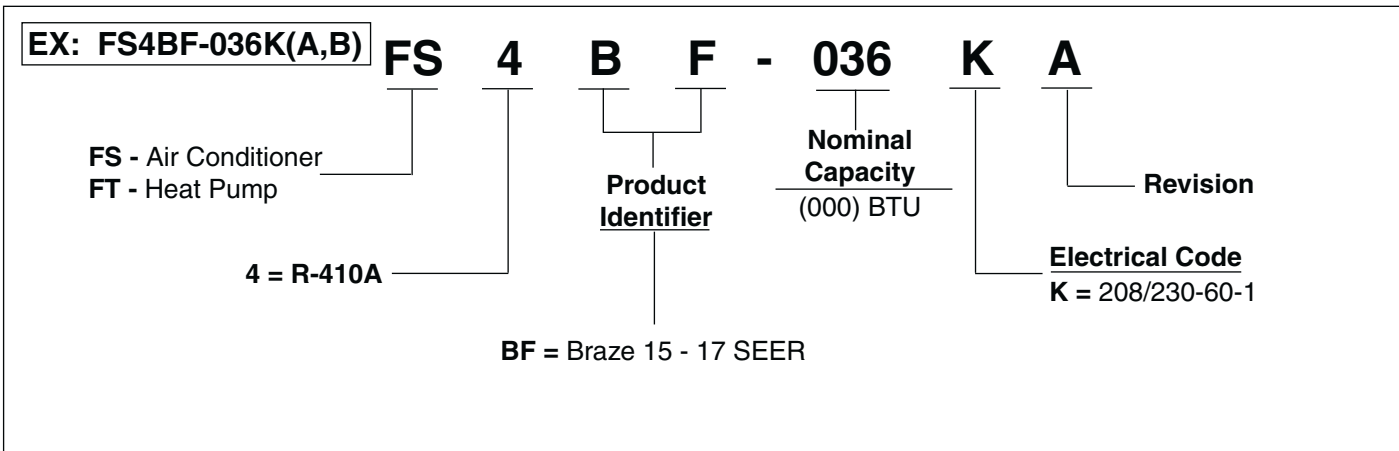
### WARRANTY

- 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. All split system products must be installed with a matched indoor air handler or indoor coil to qualify.
- 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 for warranty details.

### FEATURES and BENEFITS

- **R-410A Refrigerant:** Earth friendly non-ozone depleting refrigerant.
- **ComfortAlert™ Module:** Detects system and electrical problem conditions. A diagnostics key directs the service technician to the root cause of a problem.
- **Copeland Scroll UltraTech™ Compressor:** The Ultra Tech Compressor operates with 2 stages of cooling capacity to provide superior comfort and efficiency. Copeland's proven and simple design equates to years of comfort and reliability for the homeowner with virtually silent operation.
- **Durable, Attractive Cabinet:** Designed using galvanized steel with a polyester urethane finish. The 950 hour salt spray finish is 1.5 mil thick and resists corrosion 50% better than comparable units.
- **Composite Base Pan:** Absorbs sound and is corrosion resistant. Composite is also stronger and lighter than steel.
- **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.
- **Compressor Sound Blanket:** Engineered to significantly reduce unwanted compressor noise.
- **Swept-Wing Fan Blade:** Designed to significantly reduce unwanted noise.
- **Louvered Condenser Guard:** Durable metal guard protects the coil from yard hazards and extreme weather.
- **Removable Top Grille Assembly:** Allows ease of service from the top without disconnecting fan motor leads.
- **Low Pressure Switch:** Loss of charge protection ensures long compressor life. Auto-reset feature prevents nuisance service visits.
- **High Pressure Switch:** Protects against abnormally high system pressures. Auto-reset feature prevents nuisance service visits.
- **Liquid Line Filter Drier:** Included with unit, field installed.
- **One Piece Top/Orifice:** Designed for maximum airflow and quiet operation.
- **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.

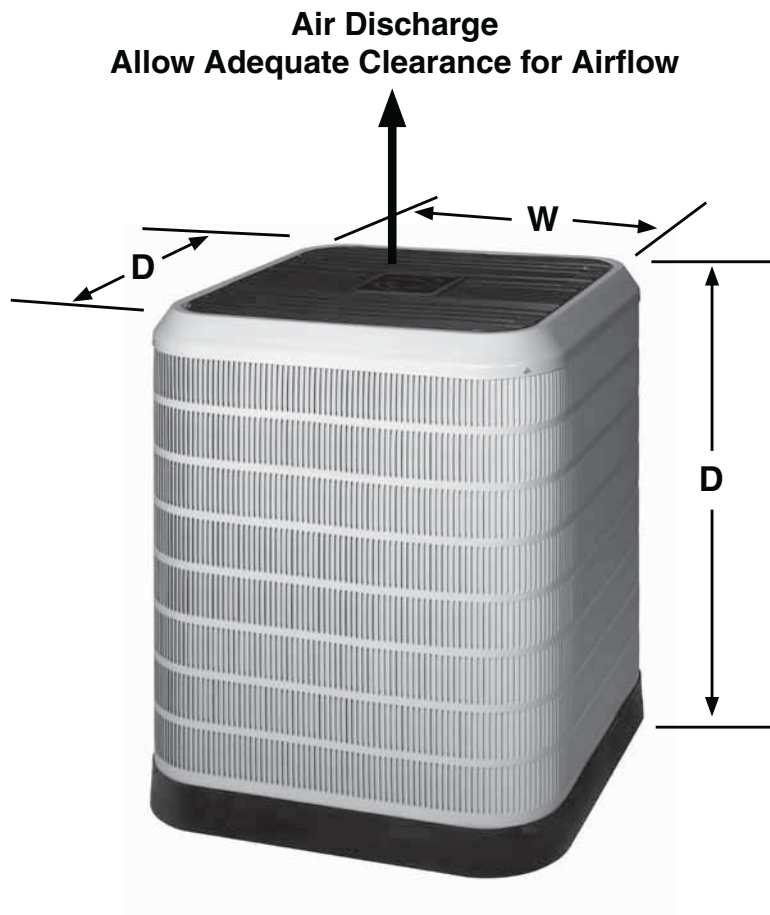
# MODEL IDENTIFICATION CODES



## DIMENSIONS

### AIR CONDITIONER OUTDOOR SECTION

| FS4BF | 024KA  | 036KA  | 048KB  | 060KB  |
|-------|--------|--------|--------|--------|
| H     | 45     | 45     | 45     | 45     |
| W     | 31 1/4 | 31 1/4 | 31 1/4 | 31 1/4 |
| D     | 31 1/4 | 31 1/4 | 31 1/4 | 31 1/4 |



# PHYSICAL AND ELECTRICAL SPECIFICATIONS / OUTDOOR UNITS

## 16 SEER — R-410A Extra High Efficiency — Single Phase

| Model Number FS4BF   |                        | 024KA           | 036KA        | 048KB        | 060KB        |              |
|--|------------------------|-----------------|--------------|--------------|--------------|--------------|
| Electrical Data  | Volts-Cycles-Phase (1) |                 | 208/230-60-1 | 208/230-60-1 | 208/230-60-1 | 208/230-60-1 |
|  | Total Amps             |                 | 11.3         | 17.9         | 19.6         | 25.9         |
|  | Delay Fuse Max. (2)    |                 | 20           | 35           | 40           | 50           |
|  | Min. Circuit Ampacity  |                 | 13.9         | 22.1         | 23.8         | 31.7         |
| Condenser Data   | Coil                   | Area            | 25.4         | 25.4         | 25.4         | 25.4         |
|  |                        | Rows-FPI        | 1-20         | 1-20         | 2-18         | 2-18         |
|  |                        | Tube Dia        | 3/8" O.D.    | 3/8" O.D.    | 3/8" O.D.    | 3/8" O.D.    |
|  | Fan Motor              | Type            | PSC          | PSC          | BLDC         | BLDC         |
|  |                        | Speeds          | 1            | 2            | 2            | 2            |
|  |                        | Amps            | 1.0          | 1.3          | 2.9          | 2.9          |
|  |                        | Lo/Hi Spd Watts | 200          | 187/250      | 150/200      | 150/200      |
|  |                        | HP              | 1/4          | 1/4          | 1/3          | 1/3          |
|  | Fan Blade              | Dia-# Blades    | 24"- 2       | 24"- 2       | 24"- 2       | 24"- 2       |
|  |                        | SCFM            | 3600         | 4000         | 4000         | 4000         |
|  | Compressor Data        | RLA             | 10.3         | 16.6         | 16.7         | 23.0         |
|  |                        | LRA             | 52           | 82           | 96           | 118          |
| Refrigerant suction line O.D.(all length of liquid line are 3/8" O.D.)                   |                        | 0-24 ft.        | 3/4"         | 7/8" (4)     | 7/8"         | 7/8"         |
|  |                        | 25-39 ft.       | 7/8"         | 1-1/8" (3)   | 1-1/8" (3)   | 1-1/8" (3)   |
|  |                        | 40-75 ft.       | 7/8"         | 1-1/8" (3)   | 1-1/8" (3)   | 1-1/8" (3)   |
| Refrigerant charge (R-410A) in ounces for outdoor unit, indoor unit and 15' lineset. (5) |                        | 150             | 170          | 278          | 260          |              |
| Weight   | Net                    | 248             | 260          | 270          | 284          |              |
|  | Approximate (lbs.)     | Ship            | 260          | 272          | 282          | 296          |

(1) Operating voltage range: 187V minimum - 253 V maximum

(2) HACR type circuit breakers may be used

(3) Requires 1-1/8 to 7/8" reducer from unit to lineset.

(4) Use of a 3/4" lineset will result in approximately 2% loss in capacity.

(5) Additional charge for line sets above 15 feet. Values based on suction line as follows with 3/8" liquid line.

a) 3/4" = 0.6 oz. per additional foot

b) 7/8" = 0.7 oz. per additional foot

c) 1 1/8" = 0.8 oz per additional foot

## ACCESSORIES - Condensing Unit

### Start Assist Kit - 912933

Provides additional starting torque for the compressor motor when operating with low line voltage or high operating temperatures.

| COPPER WIRE SIZE — AWG<br>(1% Voltage Drop) |     |     |    |                |
|---|-----|-----|----|----------------|
| Supply Wire Length-Feet                     |     |     |    | Supply Circuit |
| 200   | 150 | 100 | 50 | Ampacity       |
| 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.

# SYSTEM COOLING CAPACITIES

## 16 SEER — Extra High Efficiency — Single Phase

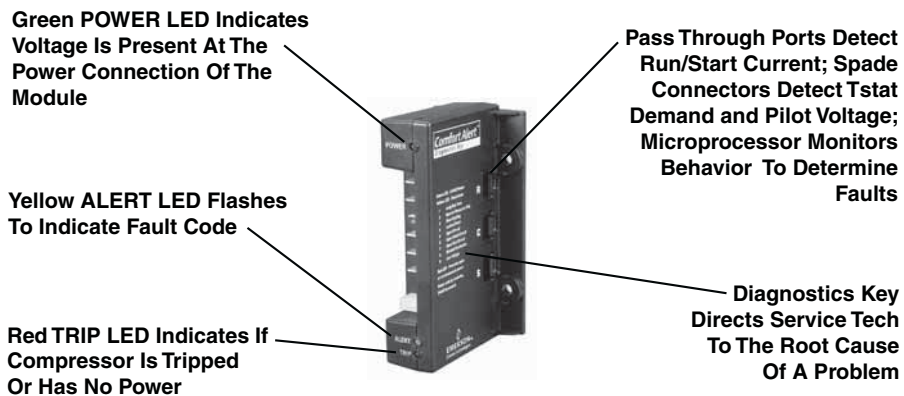
| With this Coil            |                            |                            |                             |      |      |                |                 |
|---------------------------|----------------------------|----------------------------|-----------------------------|------|------|----------------|-----------------|
| Outdoor Unit Number FS4BF | Indoor Unit Number C6BA/H- | Low Speed Capacity (Btu/h) | High Speed Capacity (Btu/h) | SEER | EER  | Low Speed SCFM | High Speed SCFM |
| 024KA                     | X24(C,U)-B+MB6VM           | 18000                      | 24000                       | 16.0 | 13.5 | 640            | 850             |
| 036KA                     | X36(C,U)-B+MB6VM           | 25000                      | 36000                       | 16.0 | 12.5 | 900            | 1250            |
| 036KA                     | X36(C,U)-C+MB6VM           | 25000                      | 36000                       | 16.0 | 12.5 | 900            | 1250            |
| 036KA                     | X37(C,U)-C+MB6VM           | 25800                      | 36000                       | 16.0 | 13.0 | 940            | 1270            |
| 048KB                     | X48(C,U)-C+MB6VM           | 30200                      | 43500                       | 16.0 | 13.0 | 950            | 1400            |
| 060KB                     | X60(C,U)-C+MB6VM           | 40000                      | 57000                       | 16.0 | 13.0 | 1025           | 1500            |

| With this Air Handler     |                         |                            |                             |      |      |                |                 |
|---------------------------|-------------------------|----------------------------|-----------------------------|------|------|----------------|-----------------|
| Outdoor Unit Number FS4BF | Indoor Unit Number B4VM | Low Speed Capacity (Btu/h) | High Speed Capacity (Btu/h) | SEER | EER  | Low Speed SCFM | High Speed SCFM |
| 024KA                     | X24KB                   | 18000                      | 24000                       | 16.0 | 13.5 | 640            | 850             |
| 036KA                     | X36KB                   | 25000                      | 36000                       | 16.0 | 13.0 | 900            | 1250            |
| 048KB                     | X48KC                   | 30200                      | 43500                       | 16.0 | 13.0 | 950            | 1400            |
| 060KB                     | X60KC                   | 40000                      | 57000                       | 16.0 | 13.0 | 1025           | 1500            |

Air handlers and coils used in tables are designed and manufactured by NORDYNE.

See current AHRI Directory for certified combinations and ratings.  
[www.ahridirectory.org](http://www.ahridirectory.org)

## COMFORT ALERT™ DIAGNOSTIC MODULE



# EXPANDED COOLING PERFORMANCE - 2-STAGE AC SYSTEMS

FS4BF-024KA with C6B(A,H)-X24(C,U)-B + VSB - High Speed  
 FS4BF-024KA with B4VM-X24K-B - High Speed

| CFM | O.D.T  |        | 75°F |      |      | 85°F |      |      | 95°F |      |      | 105°F |      |      | 115°F |      |      |
|-----|--------|--------|------|------|------|------|------|------|------|------|------|-------|------|------|-------|------|------|
|     | 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. |
| 750 | 80     | 62     | 24.6 | 21.5 | 1.45 | 23.5 | 21.1 | 1.61 | 22.4 | 20.9 | 1.79 | 21.2  | 20.7 | 1.99 | 20.0  | 19.5 | 2.22 |
|     | 80     | 67     | 26.5 | 17.8 | 1.46 | 25.3 | 17.3 | 1.63 | 24.0 | 16.8 | 1.80 | 22.7  | 16.3 | 2.00 | 21.2  | 15.8 | 2.23 |
|     | 80     | 72     | 28.6 | 13.8 | 1.46 | 27.3 | 13.4 | 1.64 | 25.9 | 12.9 | 1.82 | 24.5  | 12.4 | 2.02 | 22.9  | 11.9 | 2.24 |
|     | 75     | 63     | 24.6 | 17.2 | 1.45 | 23.5 | 16.7 | 1.61 | 22.4 | 16.3 | 1.79 | 21.1  | 15.7 | 1.99 | 19.7  | 15.2 | 2.22 |
| 850 | 80     | 62     | 25.3 | 22.8 | 1.46 | 24.2 | 22.3 | 1.62 | 23.1 | 21.9 | 1.80 | 21.9  | 21.9 | 2.00 | 20.7  | 20.7 | 2.22 |
|     | 80     | 67     | 27.0 | 19.0 | 1.46 | 25.7 | 18.4 | 1.63 | 24.5 | 18.0 | 1.81 | 23.1  | 17.4 | 2.01 | 21.6  | 16.8 | 2.23 |
|     | 80     | 72     | 29.1 | 14.5 | 1.47 | 27.7 | 14.0 | 1.64 | 26.3 | 13.6 | 1.82 | 24.8  | 13.1 | 2.02 | 23.2  | 12.5 | 2.25 |
|     | 75     | 63     | 25.2 | 18.3 | 1.45 | 24.0 | 17.8 | 1.62 | 22.8 | 17.3 | 1.80 | 21.5  | 16.8 | 2.00 | 20.0  | 16.1 | 2.22 |
| 950 | 80     | 62     | 25.8 | 24.1 | 1.47 | 24.8 | 23.5 | 1.62 | 23.7 | 23.1 | 1.80 | 22.5  | 22.5 | 2.00 | 21.2  | 21.2 | 2.23 |
|     | 80     | 67     | 27.5 | 20.1 | 1.47 | 26.1 | 19.5 | 1.63 | 24.8 | 19.0 | 1.81 | 23.4  | 18.5 | 2.01 | 21.9  | 17.9 | 2.24 |
|     | 80     | 72     | 29.6 | 15.2 | 1.48 | 28.1 | 14.7 | 1.65 | 26.7 | 14.2 | 1.83 | 25.1  | 13.7 | 2.03 | 23.5  | 13.2 | 2.25 |
|     | 75     | 63     | 25.6 | 19.3 | 1.46 | 24.4 | 18.8 | 1.62 | 23.1 | 18.3 | 1.80 | 21.8  | 17.7 | 2.00 | 20.3  | 17.1 | 2.23 |

FS4BF-024KA with C6B(A,H)-X24(C,U)-B + VSB - Low Speed  
 FS4BF-024KA with B4VM-X24K-B - Low Speed

| CFM | O.D.T  |        | 75°F |      |      | 85°F |      |      | 95°F |      |      | 105°F |      |      | 115°F |      |      |
|-----|--------|--------|------|------|------|------|------|------|------|------|------|-------|------|------|-------|------|------|
|     | 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. |
| 540 | 80     | 62     | 18.7 | 16.5 | 1.04 | 17.8 | 16.2 | 1.15 | 17.0 | 15.9 | 1.32 | 16.0  | 15.7 | 1.52 | 15.1  | 14.9 | 1.75 |
|     | 80     | 67     | 20.5 | 13.9 | 1.04 | 19.5 | 13.5 | 1.16 | 18.5 | 13.1 | 1.33 | 17.5  | 12.7 | 1.53 | 16.3  | 12.2 | 1.76 |
|     | 80     | 72     | 22.5 | 11.1 | 1.04 | 21.4 | 10.8 | 1.17 | 20.3 | 10.4 | 1.34 | 19.1  | 10.0 | 1.53 | 17.8  | 9.5  | 1.76 |
|     | 75     | 63     | 18.8 | 13.4 | 1.03 | 18.0 | 13.0 | 1.15 | 17.1 | 12.6 | 1.32 | 16.1  | 12.1 | 1.52 | 15.0  | 11.7 | 1.76 |
| 640 | 80     | 62     | 19.5 | 18.1 | 1.04 | 18.6 | 17.8 | 1.15 | 17.8 | 17.3 | 1.33 | 16.9  | 16.9 | 1.53 | 15.9  | 15.9 | 1.76 |
|     | 80     | 67     | 21.2 | 15.2 | 1.04 | 20.2 | 14.8 | 1.16 | 19.1 | 14.4 | 1.33 | 18.0  | 13.9 | 1.53 | 16.8  | 13.4 | 1.76 |
|     | 80     | 72     | 23.1 | 11.9 | 1.04 | 22.0 | 11.5 | 1.17 | 20.9 | 11.1 | 1.34 | 19.7  | 10.7 | 1.53 | 18.3  | 10.2 | 1.76 |
|     | 75     | 63     | 19.5 | 14.6 | 1.04 | 18.6 | 14.2 | 1.16 | 17.6 | 13.8 | 1.33 | 16.6  | 13.3 | 1.53 | 15.4  | 12.8 | 1.76 |
| 740 | 80     | 62     | 20.2 | 19.4 | 1.05 | 19.5 | 18.9 | 1.16 | 18.6 | 18.3 | 1.33 | 17.7  | 17.7 | 1.53 | 16.6  | 16.6 | 1.76 |
|     | 80     | 67     | 21.7 | 16.4 | 1.05 | 20.6 | 16.0 | 1.16 | 19.6 | 15.6 | 1.34 | 18.4  | 15.1 | 1.53 | 17.2  | 14.6 | 1.76 |
|     | 80     | 72     | 23.6 | 12.7 | 1.05 | 22.4 | 12.3 | 1.17 | 21.3 | 11.9 | 1.34 | 20.1  | 11.5 | 1.54 | 18.7  | 11.0 | 1.76 |
|     | 75     | 63     | 20.0 | 15.7 | 1.04 | 19.1 | 15.3 | 1.16 | 18.1 | 14.9 | 1.33 | 17.0  | 14.4 | 1.53 | 15.8  | 13.9 | 1.76 |

FS4BF-036KA with C6B(A,H)-X36(C,U)-B + VSB - High Speed  
 FS4BF-036KA with B4VM-X36K-B - High Speed

| CFM  | O.D.T  |        | 75°F |      |      | 85°F |      |      | 95°F |      |      | 105°F |      |      | 115°F |      |      |
|------|--------|--------|------|------|------|------|------|------|------|------|------|-------|------|------|-------|------|------|
|      | 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. |
| 1150 | 80     | 62     | 36.7 | 32.2 | 2.35 | 35.0 | 31.6 | 2.62 | 33.5 | 31.3 | 2.87 | 31.7  | 31.0 | 3.16 | 29.9  | 29.2 | 3.51 |
|      | 80     | 67     | 39.5 | 26.7 | 2.37 | 37.6 | 26.0 | 2.65 | 35.9 | 25.3 | 2.89 | 33.9  | 24.6 | 3.19 | 31.7  | 23.7 | 3.52 |
|      | 80     | 72     | 42.6 | 20.8 | 2.39 | 40.7 | 20.1 | 2.67 | 38.7 | 19.5 | 2.92 | 36.6  | 18.8 | 3.22 | 34.1  | 18.0 | 3.55 |
|      | 75     | 63     | 36.9 | 25.9 | 2.36 | 35.2 | 25.2 | 2.62 | 33.5 | 24.5 | 2.87 | 31.6  | 23.7 | 3.17 | 29.6  | 22.9 | 3.50 |
| 1250 | 80     | 62     | 37.4 | 33.7 | 2.36 | 35.7 | 33.0 | 2.63 | 34.1 | 32.5 | 2.87 | 32.4  | 32.4 | 3.17 | 30.6  | 30.6 | 3.51 |
|      | 80     | 67     | 40.1 | 28.0 | 2.38 | 38.2 | 27.2 | 2.66 | 36.3 | 26.5 | 2.89 | 34.3  | 25.7 | 3.19 | 32.0  | 24.9 | 3.52 |
|      | 80     | 72     | 43.2 | 21.6 | 2.40 | 41.1 | 20.9 | 2.68 | 39.2 | 20.3 | 2.93 | 36.9  | 19.5 | 3.22 | 34.5  | 18.7 | 3.55 |
|      | 75     | 63     | 37.4 | 27.1 | 2.36 | 35.7 | 26.3 | 2.63 | 33.9 | 25.6 | 2.87 | 32.0  | 24.8 | 3.17 | 29.9  | 24.0 | 3.51 |
| 1350 | 80     | 62     | 37.8 | 35.6 | 2.39 | 36.3 | 34.7 | 2.63 | 34.8 | 34.0 | 2.88 | 33.1  | 33.1 | 3.18 | 31.2  | 31.2 | 3.52 |
|      | 80     | 67     | 40.6 | 29.1 | 2.39 | 38.6 | 28.4 | 2.66 | 36.7 | 27.7 | 2.90 | 34.7  | 26.9 | 3.20 | 32.4  | 26.0 | 3.53 |
|      | 80     | 72     | 43.8 | 22.3 | 2.41 | 41.5 | 21.6 | 2.68 | 39.5 | 21.0 | 2.93 | 37.3  | 20.3 | 3.22 | 34.8  | 19.5 | 3.55 |
|      | 75     | 63     | 37.9 | 28.2 | 2.38 | 36.1 | 27.4 | 2.63 | 34.3 | 26.7 | 2.88 | 32.4  | 25.9 | 3.17 | 30.2  | 25.0 | 3.51 |

FS4BF-036KA with C6B(A,H)-X36(C,U)-B + VSB - Low Speed  
 FS4BF-036KA with B4VM-X36K-B - Low Speed

| CFM  | O.D.T  |        | 75°F |      |      | 85°F |      |      | 95°F |      |      | 105°F |      |      | 115°F |      |      |
|------|--------|--------|------|------|------|------|------|------|------|------|------|-------|------|------|-------|------|------|
|      | 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. |
| 800  | 80     | 62     | 26.0 | 22.7 | 1.50 | 24.8 | 22.2 | 1.67 | 23.6 | 22.0 | 1.88 | 22.3  | 21.7 | 2.11 | 20.9  | 20.5 | 2.38 |
|      | 80     | 67     | 28.3 | 18.9 | 1.48 | 27.0 | 18.4 | 1.65 | 25.6 | 17.9 | 1.85 | 24.2  | 17.3 | 2.09 | 22.5  | 16.7 | 2.35 |
|      | 80     | 72     | 31.0 | 14.9 | 1.45 | 29.6 | 14.4 | 1.62 | 28.1 | 14.0 | 1.82 | 26.4  | 13.4 | 2.05 | 24.5  | 12.8 | 2.32 |
|      | 75     | 63     | 26.2 | 18.3 | 1.50 | 25.0 | 17.8 | 1.67 | 23.8 | 17.3 | 1.88 | 22.4  | 16.7 | 2.11 | 20.8  | 16.0 | 2.38 |
| 900  | 80     | 62     | 26.7 | 24.4 | 1.50 | 25.5 | 23.9 | 1.66 | 24.4 | 23.4 | 1.87 | 23.1  | 23.1 | 2.10 | 21.8  | 21.7 | 2.36 |
|      | 80     | 67     | 28.9 | 20.2 | 1.47 | 27.6 | 19.7 | 1.64 | 26.2 | 19.2 | 1.85 | 24.7  | 18.6 | 2.08 | 22.9  | 17.9 | 2.35 |
|      | 80     | 72     | 31.6 | 15.8 | 1.44 | 30.1 | 15.3 | 1.61 | 28.5 | 14.8 | 1.82 | 26.8  | 14.2 | 2.05 | 24.9  | 13.6 | 2.31 |
|      | 75     | 63     | 26.9 | 19.6 | 1.50 | 25.6 | 19.0 | 1.66 | 24.4 | 18.5 | 1.87 | 22.9  | 17.9 | 2.10 | 21.2  | 17.2 | 2.37 |
| 1000 | 80     | 62     | 27.4 | 26.0 | 1.50 | 26.3 | 25.3 | 1.66 | 25.2 | 24.7 | 1.86 | 23.9  | 23.9 | 2.09 | 22.5  | 22.5 | 2.35 |
|      | 80     | 67     | 29.5 | 21.5 | 1.47 | 28.1 | 20.9 | 1.64 | 26.7 | 20.4 | 1.84 | 25.1  | 19.8 | 2.07 | 23.3  | 19.2 | 2.34 |
|      | 80     | 72     | 32.1 | 16.6 | 1.44 | 30.4 | 16.1 | 1.61 | 28.9 | 15.6 | 1.81 | 27.2  | 15.0 | 2.04 | 25.3  | 14.4 | 2.31 |
|      | 75     | 63     | 27.4 | 20.8 | 1.50 | 26.1 | 20.2 | 1.66 | 24.8 | 19.7 | 1.86 | 23.3  | 19.0 | 2.10 | 21.6  | 18.4 | 2.37 |

# EXPANDED COOLING PERFORMANCE - 2-STAGE AC SYSTEMS

FS4BF-048KB with C6B(A,H)-X48(C,U)-C + VSB - High Speed

FS4BF-048KB with B4VM-X48K-C - High Speed

| O.D.T |        |        | 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. |
| 1500  | 80     | 62     | 49.1 | 43.4 | 3.15 | 46.8 | 42.6 | 3.50 | 44.4 | 41.8 | 3.81 | 41.8  | 40.9 | 4.16 | 39.1  | 38.5 | 4.57 |
|       | 80     | 67     | 53.0 | 36.3 | 3.17 | 50.4 | 35.3 | 3.55 | 47.8 | 34.2 | 3.85 | 44.8  | 33.1 | 4.20 | 41.4  | 31.7 | 4.61 |
|       | 80     | 72     | 57.3 | 28.8 | 3.21 | 54.7 | 27.9 | 3.60 | 51.6 | 26.8 | 3.90 | 48.4  | 25.7 | 4.25 | 44.7  | 24.4 | 4.66 |
|       | 75     | 63     | 49.3 | 35.2 | 3.15 | 47.0 | 34.2 | 3.51 | 44.6 | 33.1 | 3.81 | 41.8  | 31.9 | 4.16 | 38.7  | 30.6 | 4.57 |
| 1600  | 80     | 62     | 49.7 | 44.9 | 3.16 | 47.4 | 44.1 | 3.51 | 45.0 | 43.1 | 3.81 | 42.5  | 42.4 | 4.17 | 39.7  | 39.7 | 4.59 |
|       | 80     | 67     | 53.4 | 37.5 | 3.18 | 50.9 | 36.5 | 3.55 | 48.2 | 35.4 | 3.86 | 45.2  | 34.2 | 4.21 | 41.8  | 32.8 | 4.62 |
|       | 80     | 72     | 57.7 | 29.6 | 3.23 | 55.0 | 28.6 | 3.60 | 52.0 | 27.6 | 3.90 | 48.7  | 26.4 | 4.26 | 45.0  | 25.1 | 4.66 |
|       | 75     | 63     | 49.9 | 36.3 | 3.16 | 47.6 | 35.3 | 3.52 | 45.0 | 34.2 | 3.82 | 42.3  | 33.0 | 4.17 | 39.0  | 31.6 | 4.58 |
| 1700  | 80     | 62     | 50.1 | 47.1 | 3.20 | 48.1 | 46.0 | 3.52 | 45.7 | 45.0 | 3.82 | 43.2  | 43.2 | 4.18 | 40.4  | 40.4 | 4.59 |
|       | 80     | 67     | 54.1 | 38.7 | 3.20 | 51.4 | 37.7 | 3.56 | 48.6 | 36.6 | 3.86 | 45.6  | 35.4 | 4.21 | 42.1  | 34.0 | 4.61 |
|       | 80     | 72     | 58.4 | 30.3 | 3.24 | 55.4 | 29.4 | 3.61 | 52.4 | 28.3 | 3.91 | 49.1  | 27.1 | 4.26 | 45.3  | 25.8 | 4.67 |
|       | 75     | 63     | 50.5 | 37.5 | 3.18 | 48.1 | 36.4 | 3.52 | 45.5 | 35.3 | 3.83 | 42.6  | 34.1 | 4.17 | 39.4  | 32.7 | 4.58 |

FS4BF-048KB with C6B(A,H)-X48(C,U)-C + VSB - Low Speed

FS4BF-048KB with B4VM-X48K-C - Low Speed

| O.D.T |        |        | 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. |
| 1000  | 80     | 62     | 35.0 | 30.6 | 2.03 | 33.4 | 30.0 | 2.26 | 31.7 | 29.6 | 2.53 | 29.9  | 29.1 | 2.85 | 28.1  | 27.6 | 3.22 |
|       | 80     | 67     | 38.4 | 25.8 | 2.00 | 36.5 | 25.1 | 2.24 | 34.8 | 24.3 | 2.52 | 32.7  | 23.5 | 2.83 | 30.4  | 22.7 | 3.19 |
|       | 80     | 72     | 42.5 | 20.7 | 1.99 | 40.6 | 20.0 | 2.22 | 38.4 | 19.3 | 2.50 | 36.1  | 18.5 | 2.80 | 33.5  | 17.7 | 3.16 |
|       | 75     | 63     | 35.4 | 24.9 | 2.02 | 33.8 | 24.2 | 2.25 | 32.0 | 23.4 | 2.53 | 30.1  | 22.6 | 2.85 | 28.0  | 21.7 | 3.22 |
| 1100  | 80     | 62     | 35.8 | 32.4 | 2.02 | 34.2 | 31.8 | 2.25 | 32.5 | 31.2 | 2.53 | 30.8  | 30.8 | 2.84 | 29.0  | 29.0 | 3.21 |
|       | 80     | 67     | 39.2 | 27.2 | 2.00 | 37.3 | 26.4 | 2.23 | 35.4 | 25.6 | 2.51 | 33.3  | 24.8 | 2.82 | 30.9  | 23.9 | 3.19 |
|       | 80     | 72     | 43.2 | 21.5 | 1.99 | 41.1 | 20.8 | 2.22 | 38.9 | 20.1 | 2.49 | 36.5  | 19.3 | 2.80 | 33.9  | 18.5 | 3.16 |
|       | 75     | 63     | 36.2 | 26.2 | 2.03 | 34.5 | 25.4 | 2.25 | 32.6 | 24.6 | 2.53 | 30.6  | 23.8 | 2.85 | 28.5  | 22.9 | 3.22 |
| 1200  | 80     | 62     | 36.4 | 34.5 | 2.04 | 35.0 | 33.7 | 2.25 | 33.3 | 32.8 | 2.52 | 31.7  | 31.6 | 2.84 | 29.8  | 29.8 | 3.20 |
|       | 80     | 67     | 39.9 | 28.5 | 2.01 | 37.9 | 27.7 | 2.23 | 35.9 | 26.9 | 2.51 | 33.8  | 26.1 | 2.82 | 31.4  | 25.2 | 3.18 |
|       | 80     | 72     | 43.8 | 22.4 | 1.99 | 41.6 | 21.7 | 2.22 | 39.3 | 20.9 | 2.49 | 36.9  | 20.1 | 2.80 | 34.3  | 19.2 | 3.15 |
|       | 75     | 63     | 36.8 | 27.4 | 2.03 | 35.0 | 26.6 | 2.25 | 33.2 | 25.8 | 2.53 | 31.1  | 25.0 | 2.84 | 28.9  | 24.1 | 3.21 |

FS4BF-060KB with C6B(A,H)-X60(C,U)-C + VSB - High Speed

FS4BF-060KB with B4VM-X60K-C - High Speed

| O.D.T |        |        | 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. |
| 1575  | 80     | 62     | 61.2 | 45.0 | 3.53 | 58.0 | 43.6 | 3.98 | 54.8 | 42.3 | 4.43 | 51.6  | 40.9 | 4.88 | 48.4  | 39.5 | 5.33 |
|       | 80     | 67     | 63.4 | 40.9 | 3.57 | 60.2 | 39.5 | 4.02 | 57.0 | 38.1 | 4.48 | 53.8  | 36.7 | 4.93 | 50.6  | 35.3 | 5.38 |
|       | 80     | 72     | 65.6 | 36.7 | 3.62 | 62.4 | 35.3 | 4.07 | 59.2 | 33.9 | 4.52 | 56.1  | 32.6 | 4.97 | 52.9  | 31.2 | 5.42 |
|       | 75     | 63     | 58.2 | 40.6 | 3.58 | 55.0 | 39.2 | 4.03 | 51.8 | 37.9 | 4.48 | 48.6  | 36.5 | 4.93 | 45.4  | 35.1 | 5.38 |
| 1625  | 80     | 62     | 61.8 | 45.2 | 3.56 | 58.6 | 43.8 | 4.01 | 55.4 | 42.4 | 4.46 | 52.2  | 41.0 | 4.91 | 49.0  | 39.7 | 5.36 |
|       | 80     | 67     | 64.0 | 41.0 | 3.60 | 60.8 | 39.6 | 4.05 | 57.6 | 38.2 | 4.50 | 54.4  | 36.9 | 4.95 | 51.2  | 35.5 | 5.40 |
|       | 80     | 72     | 66.2 | 36.8 | 3.65 | 63.0 | 35.5 | 4.10 | 59.8 | 34.1 | 4.55 | 56.6  | 32.7 | 5.00 | 53.4  | 31.3 | 5.45 |
|       | 75     | 63     | 58.8 | 40.8 | 3.61 | 55.6 | 39.4 | 4.06 | 52.4 | 38.0 | 4.51 | 49.2  | 36.6 | 4.96 | 46.0  | 35.3 | 5.41 |
| 1675  | 80     | 62     | 62.3 | 45.3 | 3.59 | 59.1 | 43.9 | 4.04 | 55.9 | 42.6 | 4.49 | 52.7  | 41.2 | 4.94 | 49.6  | 39.8 | 5.39 |
|       | 80     | 67     | 64.5 | 41.1 | 3.63 | 61.3 | 39.8 | 4.08 | 58.1 | 38.4 | 4.53 | 55.0  | 37.0 | 4.98 | 51.8  | 35.6 | 5.43 |
|       | 80     | 72     | 66.7 | 37.0 | 3.68 | 63.6 | 35.6 | 4.13 | 60.4 | 34.2 | 4.58 | 57.2  | 32.8 | 5.03 | 54.0  | 31.5 | 5.48 |
|       | 75     | 63     | 59.3 | 40.9 | 3.64 | 56.1 | 39.5 | 4.09 | 52.9 | 38.1 | 4.54 | 49.8  | 36.8 | 4.99 | 46.6  | 35.4 | 5.44 |

FS4BF-060KB with C6B(A,H)-X60(C,U)-C + VSB - Low Speed

FS4BF-060KB with B4VM-X60K-C - Low Speed

| O.D.T |        |        | 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. |
| 1070  | 80     | 62     | 41.0 | 34.0 | 2.40 | 39.1 | 33.4 | 2.68 | 37.1 | 32.8 | 3.05 | 34.9  | 32.3 | 3.45 | 32.4  | 31.1 | 3.90 |
|       | 80     | 67     | 44.7 | 28.9 | 2.39 | 42.5 | 28.0 | 2.68 | 40.3 | 27.1 | 3.04 | 37.9  | 26.1 | 3.45 | 35.2  | 25.1 | 3.89 |
|       | 80     | 72     | 48.9 | 23.1 | 2.38 | 46.7 | 22.4 | 2.67 | 44.3 | 21.5 | 3.04 | 41.6  | 20.6 | 3.45 | 38.5  | 19.6 | 3.90 |
|       | 75     | 63     | 41.5 | 28.0 | 2.40 | 39.6 | 27.2 | 2.68 | 37.5 | 26.3 | 3.05 | 35.3  | 25.3 | 3.45 | 32.7  | 24.2 | 3.91 |
| 1170  | 80     | 62     | 41.8 | 35.8 | 2.41 | 39.9 | 35.2 | 2.68 | 37.8 | 34.6 | 3.04 | 35.6  | 34.6 | 3.45 | 33.1  | 33.1 | 3.90 |
|       | 80     | 67     | 45.4 | 30.1 | 2.39 | 43.3 | 29.3 | 2.67 | 41.0 | 28.4 | 3.04 | 38.6  | 27.4 | 3.45 | 35.8  | 26.3 | 3.91 |
|       | 80     | 72     | 49.8 | 24.0 | 2.39 | 47.4 | 23.2 | 2.67 | 44.8 | 22.4 | 3.05 | 42.1  | 21.5 | 3.45 | 38.9  | 20.5 | 3.90 |
|       | 75     | 63     | 42.3 | 29.2 | 2.41 | 40.3 | 28.4 | 2.68 | 38.2 | 27.5 | 3.05 | 35.9  | 26.5 | 3.45 | 33.2  | 25.4 | 3.91 |
| 1270  | 80     | 62     | 42.3 | 38.3 | 2.43 | 40.6 | 37.3 | 2.67 | 38.5 | 36.9 | 3.04 | 36.3  | 36.1 | 3.45 | 34.0  | 34.0 | 3.90 |
|       | 80     | 67     | 46.2 | 31.4 | 2.40 | 43.9 | 30.6 | 2.67 | 41.7 | 29.7 | 3.04 | 39.1  | 28.7 | 3.45 | 36.2  | 27.6 | 3.90 |
|       | 80     | 72     | 50.5 | 24.9 | 2.40 | 47.9 | 24.1 | 2.67 | 45.3 | 23.2 | 3.04 | 42.4  | 22.3 | 3.45 | 39.3  | 21.3 | 3.90 |
|       | 75     | 63     | 43.0 | 30.5 | 2.41 | 40.9 | 29.6 | 2.68 | 38.8 | 28.7 | 3.05 | 36.4  | 27.7 | 3.45 | 33.7  | 26.6 | 3.90 |





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