

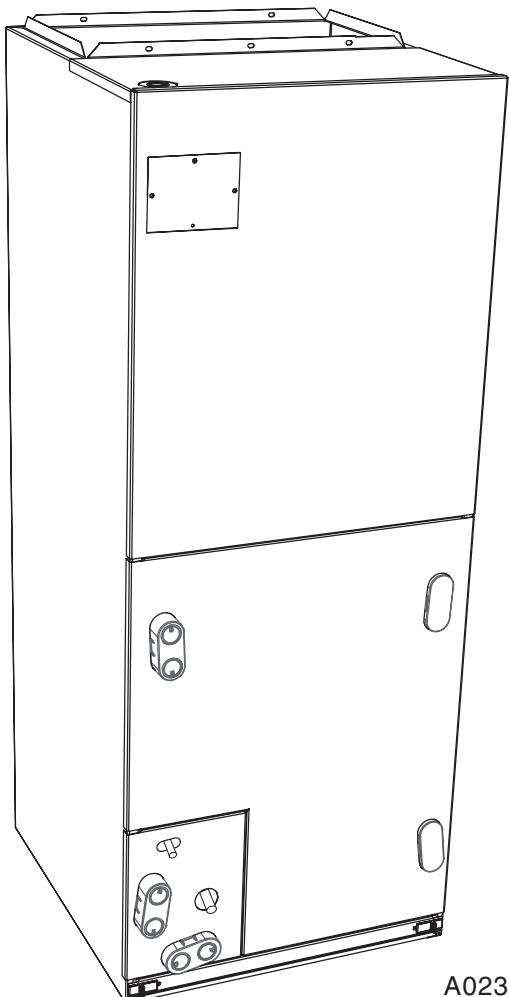


Heating & Cooling Systems

DIRECT EXPANSION FAN COIL ECM AND PURON® (R-410A) REFRIGERANT

MODEL FV4B

Sizes 002 thru 006



FV4B PREMIUM ENVIRONMENTALLY SOUND FAN COIL

The FV4B is the premium air handler combining the proven technology of Bryant fan coils with the environmentally sound refrigerant, Puron®. The FV4B achieves an operation advantage because the ECM (Electronically Commutated Motor) combined with a Quantum Plus heat pump with Puron is highly efficient at all possible operating speeds, and delivers the precise amount of airflow desired over a wide range of duct static pressure conditions. Humidity control and premium comfort are further improved when the FV4B is used with Bryant's Thermidstat™ Control. This combination allows the homeowner to control both temperature and humidity all year long, without the need for separate humidistats or other special components, providing simple, worry free comfort.

Other features homeowners appreciate are quiet operation of the FV4B, including the soft ramp up at the beginning of a heating or cooling cycle, and its soft ramp down when the duty cycle is complete. Annoying sounds from sudden changes in airflow are reduced for worry free comfort. When used in continuous fan mode, the FV4B can operate quietly at very low levels of airflow for gentle reduction of temperature differences between areas of the home and within each individual room from floor to ceiling. In addition, when used in conjunction with Bryant air cleaners, the FV4B provides continual cleansing of the air while quietly operating in continuous fan duty, for the best in indoor air quality.

The Easy Select™ Board simplifies selection of desired airflows for the installation technician, making the most of the ECM without complications. The time proven multipoise (horizontal left or right, upflow and downflow) design provides application versatility that makes Bryant fan coils the most popular and finest available anywhere.

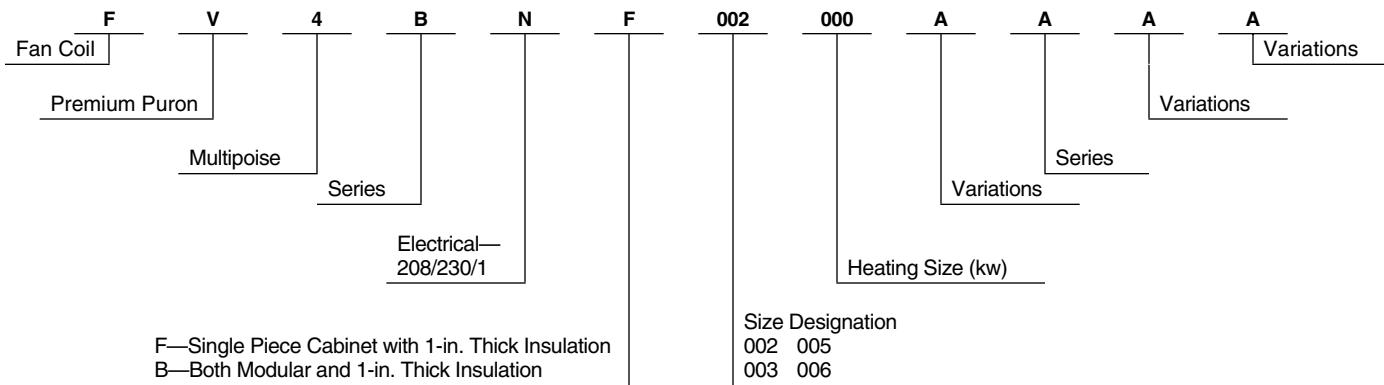
The FV4B is loaded with other popular features. The Thermostatic Expansion Valve (TXV) reliably meters refrigerant at all operating conditions during cooling mode providing excellent compressor protection. Grooved copper tubing, louvered aluminum fins, and the large face areas of the FV4B refrigerant coils provide superior efficiency, for high SEER and HSPF performance. Robust, corrosion resistant and highly draining condensate pans provide for excellent condensate control. All components are protected within a rugged, prepainted metal cabinet lined with super thick, high density insulation and vapor barrier. The unit exterior features sweat refrigerant connections for simple leak free performance, multiple electrical entry for both high and low voltage service to simplify installation. Field-installed heaters are also available, ranging from 5-kw to 30-kw.

For the best in efficiency and Environmentally Sound operation, comfort, ease of installation and reliable performance, the FV4B can't be beat.

FEATURES

- Puron®, Environmentally Sound Refrigerant
- Puron-ready TXV
- Efficient ECM makes the most of the outdoor unit's performance capabilities
- Static pressure-adapting ECM for dependable airflow
- Easy Select Board simplifies installation
- Easily selected options for airflow operation, including fan only mode
- Large, grooved tube, louvered fin coils
- Unique cabinet design that meets new stringent regulations for air leakage. Meets requirements of a 2% cabinet leakage rate when tested at 1.0 inches of static pressure
- Dedicated refrigerant circuits
- Efficient, quiet, time tested blower housings and diffusers
- Sturdy, drainable condensate pans
- Brass drain connections
- Tested for condensate disposal in conditions more rigorous than Air Conditioning and Refrigeration Institute requirements
- Super thick insulation with vapor barrier
- Galvanized, pre-painted cabinet
- Installation-flexible, multipoise units
- Horizontal hanging provisions on cabinet
- Factory-supplied, cleanable and reusable filter
- Newly improved filter rack-filter insulation added for an improved air seal.
- No tools required to service filter
- 5- through 30-kw accessory heaters
- Easy plug in heater installation
- Ready for humidistat, humidifier, and air cleaner relay
- Thermostat wire terminal strip
- Entry options for high and low voltage wiring hook-up
- Simple, 5-amp blade fuse (and a spare) to protect 40 VA transformer
- Easy coil inspection (removable, snap-in plug on A-coil models)
- Leak-preventing sweat connections
- Cabinet construction features innovations designed to prevent cabinet sweating
- 2 through 5 ton coverage

MODEL NUMBER NOMENCLATURE



REGISTERED
QUALITY SYSTEM



CERTIFICATION APPLIES ONLY WHEN THE
COMPLETE SYSTEM IS LISTED WITH ARI.



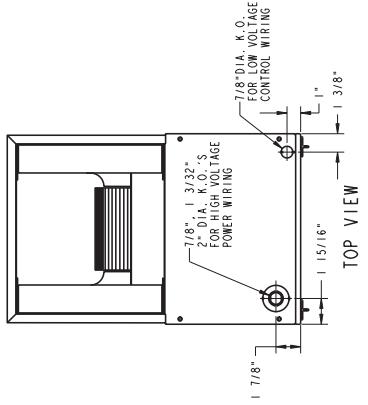
SPECIFICATIONS

MODEL FV4B

| SIZE | 002 | 003 | 005 | 006* |
|-----------------------|---------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------|
| SHIPPING WEIGHT (Lb) | 135 | 150 | 172 | 207 |
| REFRIGERANT | | Puron (R-410A) | | |
| Refr. Metering Device | | TXV | | |
| Size | 2-1/2 Ton | 3 Ton | 4 Ton | 5 Ton |
| COIL | | | | |
| Type | A | Slope | A | A |
| Rows - Fins/In. | | 3 - 14.5 | | |
| Face Area (sq-ft) | 3.46 | 3.46 | 5.93 | 7.42 |
| FAN | | | | |
| Air Discharge | | Upflow, Downflow, Horizontal | | |
| CFM (Nominal Clg/Htg) | 525 / 470 700 / 630 875 / 785 1050 / 945 | 700 / 630 875 / 785 1050 / 945 1225 / 1100 | 875 / 785 1050 / 945 1225 / 1100 1400 / 1260 | 1050 / 945 1225 / 1100 1400 / 1260 1750 / 1575 |
| MOTOR HP (ECM) | 1/2 | 1/2 | 1/2 | 3/4 |
| FILTER | 21-1/2 x 16-3/8 | 21-1/2 x 19-7/8 | 21-1/2 x 19-7/8 | 21-1/2 x 23-5/16 |

* Modular Unit

DIMENSIONS



NOTE:

1. SERIES DESIGNATION IS THE 14TH POSITION
OF UNIT PRODUCT NUMBER

FOR LOW VOLTAGE
CONTROL WIRING

| UNIT CONNECTION SIZES | | | | | |
|-----------------------|------|-----|------|----|-------|
| SUCTION: | .002 | & | .003 | - | 3/4" |
| | .005 | & | .006 | - | 7/8" |
| LIQUID: | 3/8" | | 1.0 | D. | SWEAT |
| CONDENSATE: | 3/4" | FPT | | | |

NOTE

NOTE: MODULAR
UNITS WILL HAVE
A FRONT PLATE
CANTILEVER

ALTERNATE
31-3/8" x 21-1/2" DIA. K.O. \$
FOR LIGHT WEIGHT
EASIER LIFTING

ALTERNATE
7-1/8" DIA. K.O.

NOTE: ALLOW 2" FROM FRONT
FOR SERVICE FRONT

-COIL ACCESS
PANEL

This technical drawing illustrates the dimensions and components of a pump unit. Key features include:

- Liquid Line Connection:** Located at the top left.
- Suction Line Connection:** Located at the top right.
- FITTING PANEL:** A vertical panel on the left side.
- OPENING:** A horizontal slot on the right side.
- Dimensions:**
 - Vertical height: 2 5/8"
 - Horizontal width: 10 7/16"
 - Width of the OPENING: 5"
 - Width of the FILTER ACCESS PANEL: 6 3/16"

**CONNECTION LOCATIONS SHOWN
FOR UPFLOW OR HORIZ.
LEFT APPLICATIONS**

FRONT VIEW
SHOWN WITH "A" COIL DETAILS CONNECTION
LOCATIONS FOR UPFLOW OR HORIZ. APPLICATIONS

ACCESS PANEL CONFG. FOR
SLOPE COILS
DOWNFLOW OR HORIZONTAL
RIGHT APPLICATIONS
AND
"A" COILS
DOWNFLOW APPLICATIONS

NOTE: ALLOW 1" FROM FRONT FOR SERVICE

ALTERNATE 7 1/2" K.O. FOR LOW VOLTAGE CONTROL WIRING

ALTERNATE 7 1/2" K.O. S FOR HIGH VOLTAGE POWER WIRING OPPOSITE SIDE

NOTE: MODULAR UNITS WILL HAVE A TWO PIECE CABINET

OUTLET AIR

**OPTIONAL FIELD CONVERVED
RIGHT SIDE RETURN OPENING
(SLOPE COIL UNITS ONLY)**

INLET AIR

LIQUID LINE CONNECTION

E

H MAX FOR MODULAR UNITS

J

OPENING 19 13/16"

RIGHT SIDE VIEW

INLET AIR

A

NOTE: ALTERNATE 22 1/16" X 11" FOR OUTLET AIR

10 3/16" 2 1/8" 1" 2 1/8" 7 1/8" 7 1/2" 2" DIA. K.O. & 3 1/4" 1 1/2"

1 3/16" 1 3/4" 19" 1 1/4" 1 1/4" 19 13/16" 2 1/2"

ACCESS PANEL CONFIG. FOR SLOPE COILS DOWN LOW OR HORIZONTAL AND RIGHT

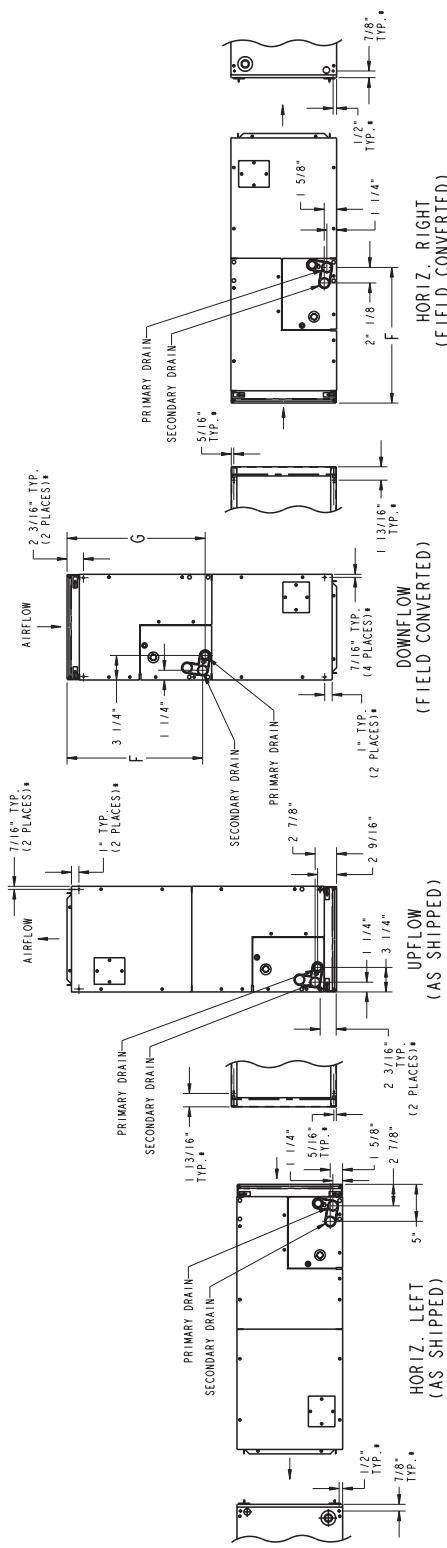
A02321

11

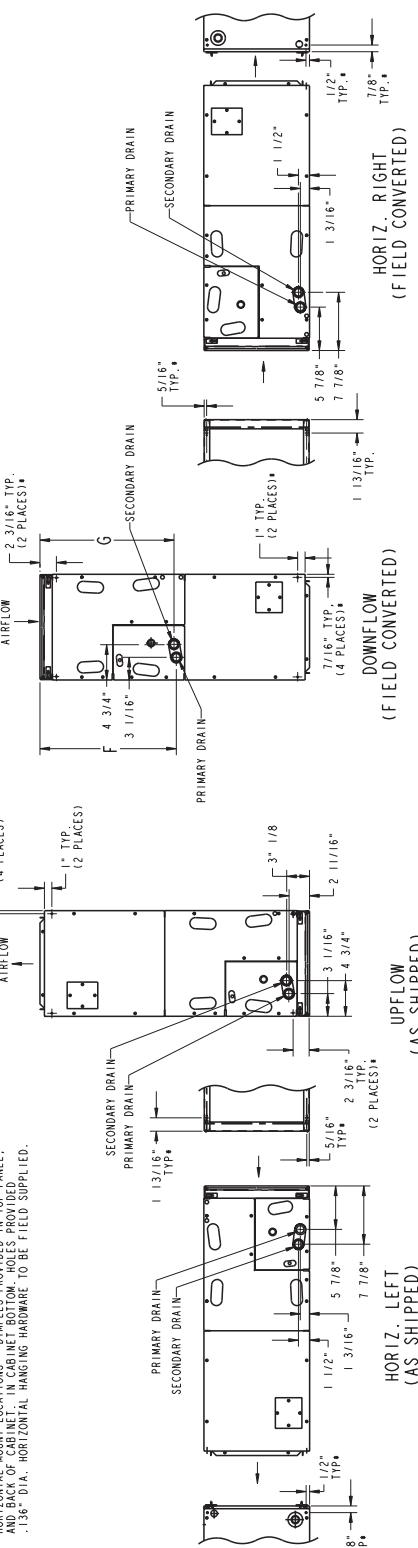
DIMENSIONS Continued

NOTES:
1. CONDENSATE PAN DRAIN CAPS NOT SHOWN FOR CLARITY.

SLOPE COIL



* HORIZONTAL MOUNT LOCATIONS - DIMPLES PROVIDED IN TOP PANEL.
AND BACK OF CABINET. IN CABINET BOTTOM, HOLES PROVIDED
.136" DIA. HORIZONTAL HANGING HARDWARE TO BE FIELD SUPPLIED.



A02322

A-COIL

| UNIT | SIZE | F In. | G In. | COIL CONFIGURATION | | SHIPPING WEIGHT Lb |
|------|------|----------|----------|--------------------|-----|--------------------------|
| | | | | SLOPE | "A" | |
| FV4B | 002 | 18-9/16 | 18-1/4 | — | Yes | 135 |
| | 003 | 26-15/16 | 27-1/2 | Yes | — | 150 |
| | 005 | 27-1/4 | 26-15/16 | — | Yes | 172 |
| | 006 | 32-15/16 | 32-5/8 | — | Yes | 207 |

PERFORMANCE DATA
FV4B ADVANCED FAN COIL AIRFLOW DELIVERY CHART (CFM)

| UNIT SIZE | OUTDOOR UNIT CAPACITY* | OPERATING MODE—COOLING | | | | | | | |
|-----------|------------------------|--------------------------|------------------------|-----------------------|------------------------|---------------------|------------------------|-------------------|--|
| | | Single-Speed Application | | Two-Speed Application | | | | | |
| | | Nominal A/C Cooling | A/C Cooling Dehumidify | Nominal A/C Cooling | A/C Cooling Dehumidify | Nominal A/C Cooling | A/C Cooling Dehumidify | | |
| 002 | 018 | 525 | 420 | — | — | — | — | 350 / 350 / 525 | |
| | 024 | 700 | 560 | — | — | — | — | 350 / 455 / 700 | |
| | 030 | 875 | 700 | — | — | — | — | 440 / 570 / 875 | |
| | 036 | 1050 | 840 | 1100 | 880 | 680 | 545 | 525 / 680 / 1050 | |
| 003 | 024 | 700 | 560 | — | — | — | — | 415 / 455 / 700 | |
| | 030 | 875 | 700 | — | — | — | — | 440 / 570 / 875 | |
| | 036 | 1050 | 840 | 1100 | 880 | 680 | 545 | 525 / 680 / 1050 | |
| | 042 | 1225 | 980 | — | — | — | — | 610 / 795 / 1225 | |
| 005 | 030 | 875 | 700 | — | — | — | — | 440 / 570 / 875 | |
| | 036 | 1050 | 840 | 1100 | 880 | 680 | 545 | 525 / 680 / 1050 | |
| | 042 | 1225 | 980 | — | — | — | — | 610 / 795 / 1225 | |
| | 048 | 1400 | 1120 | 1470 | 1175 | 910 | 725 | 700 / 910 / 1400 | |
| 006 | 036 | 1050 | 840 | 1100 | 880 | 745 | 595 | 525 / 745 / 1050 | |
| | 042 | 1225 | 980 | — | — | — | — | 610 / 870 / 1225 | |
| | 048 | 1400 | 1120 | 1470 | 1175 | 995 | 795 | 700 / 995 / 1400 | |
| | 060 | 1750 | 1400 | 1835 | 1470 | 1240 | 995 | 875 / 1240 / 1750 | |

NOTE: 1. The above airflows result with the AC/HP CFM ADJUST select jumper set on NOM.
 2. Air flow can be adjusted +15% or -10% by selecting HI or LO respectively for all modes except fan only.
 3. Dry coil at 230 volts and with 10-kw heater and filter installed.
 4. Airflows shown are at standard air conditions.

*Consult ARI ratings before matching outdoor unit with FV4B Fan Coil.

FV4B ADVANCED FAN COIL AIRFLOW DELIVERY CHART (CFM)

| UNIT SIZE | OUTDOOR UNIT CAPACITY* | OPERATING MODE—HEAT PUMP ONLY HEATING | | | | | | | |
|-----------|------------------------|---------------------------------------|----------------------|-----------------------|----------------------|-------------------|----------------------|------------------|--|
| | | Single-Speed Application | | Two-Speed Application | | | | | |
| | | Heat Pump Comfort | Heat Pump Efficiency | Heat Pump Comfort | Heat Pump Efficiency | Heat Pump Comfort | Heat Pump Efficiency | | |
| 002 | 018 | 470 | 525 | — | — | — | — | 350 / 350 / 470 | |
| | 024 | 630 | 700 | 660 | 735 | 395 | 440 | 350 / 395 / 630 | |
| | 030 | 785 | 875 | — | — | — | — | 440 / 495 / 785 | |
| | 036 | 945 | 1050 | 990 | 1100 | 595 | 660 | 525 / 595 / 945 | |
| 003 | 024 | 630 | 700 | 660 | 735 | 415 | 440 | 415 / 415 / 630 | |
| | 030 | 785 | 875 | — | — | — | — | 440 / 495 / 785 | |
| | 036 | 945 | 1050 | 990 | 1100 | 595 | 660 | 525 / 595 / 945 | |
| | 042 | 1100 | 1225 | — | — | — | — | 610 / 695 / 1100 | |
| 005 | 030 | 785 | 875 | — | — | — | — | 440 / 495 / 785 | |
| | 036 | 945 | 1050 | 990 | 1100 | 595 | 660 | 525 / 595 / 945 | |
| | 042 | 1100 | 1225 | — | — | — | — | 610 / 695 / 1100 | |
| | 048 | 1260 | 1400 | 1320 | 1470 | 795 | 880 | 700 / 795 / 1260 | |
| 006 | 036 | 945 | 1050 | 990 | 1100 | 595 | 660 | 540 / 595 / 945 | |
| | 042 | 1100 | 1225 | — | — | — | — | 610 / 695 / 1100 | |
| | 048 | 1260 | 1400 | 1325 | 1470 | 795 | 880 | 700 / 795 / 1260 | |
| | 060 | 1575 | 1750 | 1655 | 1835 | 990 | 1100 | 875 / 990 / 1575 | |

NOTE: 1. The above airflows result with the AC/HP CFM ADJUST select jumper set on NOM.
 2. Air flow can be adjusted +15% or -10% by selecting HI or LO respectively.
 3. Dry coil at 230 volts and with 10-kw heater and filter installed.
 4. Airflows shown are at standard air conditions.

*Consult ARI ratings before matching outdoor unit with FV4B Fan Coil.

PERFORMANCE DATA Continued
AIRFLOW DELIVERY CHART (CFM)—ELECTRIC HEATING MODES

| UNIT SIZE | OUTDOOR UNIT CAPACITY BtuH | ELECTRIC HEATER KW RANGE | | | | | | | | | | | |
|-----------|----------------------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | | 0-5 | | | 0-10 | | | 0-15 | | | 0-20 | | |
| | | Lo | Nom | Hi | Lo | Nom | Hi | Lo | Nom | Hi | Lo | Nom | Hi |
| 002 | 18,000 | 625 | 625 | 625 | 675 | 675 | 675 | — | — | — | — | — | — |
| | 24,000 | 650 | 725 | 835 | — | 725 | 835 | 875 | 875 | 875 | — | — | — |
| | 30,000 | 815 | 905 | 1040 | — | 905 | 1040 | 900 | 900 | 1040 | 1100 | 1100 | 1100 |
| | 36,000 | 980 | 1085 | 1250 | 980 | 1085 | 1250 | 980 | 1085 | 1250 | 1100 | 1100 | 1250 |
| 003 | 24,000 | 675 | 725 | 835 | 875 | 875 | 875 | — | — | — | — | — | — |
| | 30,000 | 815 | 905 | 1040 | 875 | 905 | 1040 | 1100 | 1100 | 1100 | — | — | — |
| | 36,000 | 980 | 1085 | 1250 | 980 | 1085 | 1250 | 1100 | 1100 | 1250 | 1225 | 1225 | 1250 |
| | 42,000 | 1140 | 1270 | 1460 | 1140 | 1270 | 1460 | 1140 | 1270 | 1460 | 1225 | 1270 | 1460 |

| UNIT SIZE | OUTDOOR UNIT CAPACITY BtuH | ELECTRIC HEATER KW RANGE | | | | | | | | | | | |
|-----------|----------------------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | | 0-10 | | | 0-15 | | | 0-20 | | | 0-30 | | |
| | | Lo | Nom | Hi | Lo | Nom | Hi | Lo | Nom | Hi | Lo | Nom | Hi |
| 005 | 30,000 | 975 | 975 | 1040 | 1100 | 1100 | 1100 | — | — | — | — | — | — |
| | 36,000 | 980 | 1085 | 1250 | 1100 | 1100 | 1250 | 1250 | 1250 | 1250 | — | — | — |
| | 42,000 | 1140 | 1270 | 1460 | 1140 | 1270 | 1460 | 1250 | 1270 | 1460 | — | — | — |
| | 48,000 | 1305 | 1450 | 1665 | 1305 | 1450 | 1665 | 1305 | 1450 | 1665 | 1500 | 1500 | 1665 |
| 006 | 36,000 | 1100 | 1100 | 1250 | 1350 | 1350 | 1350 | — | — | — | — | — | — |
| | 42,000 | 1140 | 1270 | 1460 | 1350 | 1350 | 1460 | 1525 | 1525 | 1525 | 1750 | 1750 | 1750 |
| | 48,000 | 1305 | 1450 | 1665 | 1350 | 1450 | 1665 | 1525 | 1525 | 1665 | 1750 | 1750 | 2085 |
| | 60,000 | 1630 | 1810 | 2085 | 1630 | 1810 | 2085 | 1630 | 1810 | 2085 | 1750 | 1810 | 2085 |

Where dash (—) appears indicates airflow not recommended for heater/system size.

NOTE: LO, NOM and HI refer to the AC/HP CFM ADJUST selection.

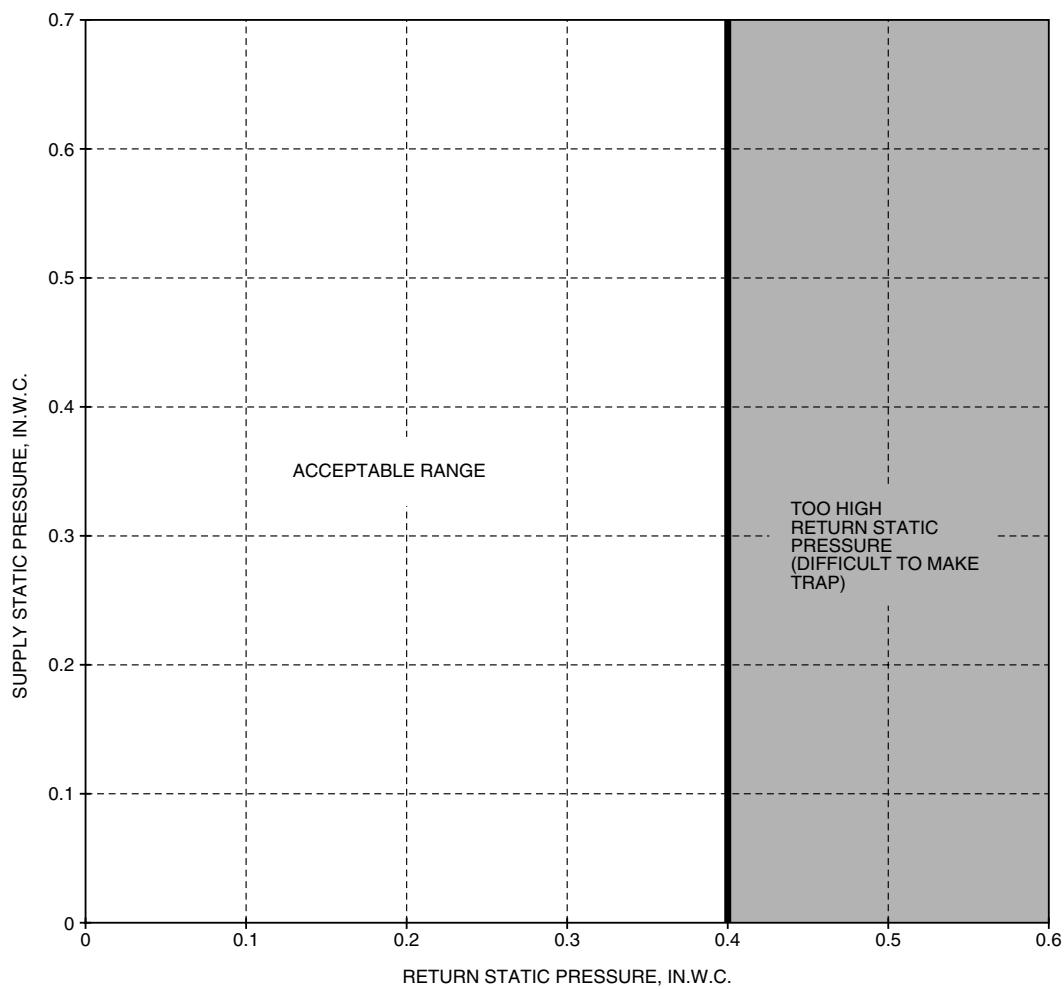
MINIMUM CFM FOR ELECTRIC HEATER APPLICATION

| UNIT SIZE | HEAT PUMP UNIT SIZE | CFM | | | | | |
|-----------|-----------------------------------------|----------------|----------|------|--------|--------|--|
| | | Heater Size KW | | | | | |
| | | 5 | 8, 9, 10 | 15 | 18, 20 | 24, 30 | |
| 002 | Heater Only 018 024 030 036 | 625 | 625 | 725 | 875 | — | |
| | | 625 | 625 | — | — | — | |
| | | 650 | 725 | 875 | — | — | |
| | | 800 | 875 | 875 | 1040 | — | |
| | | 970 | 970 | 970 | 1040 | — | |
| 003 | Heater Only 024 030 036 042 | 675 | 700 | 1050 | 1050 | — | |
| | | 675 | 875 | — | — | — | |
| | | 800 | 875 | 1100 | — | — | |
| | | 975 | 975 | 1100 | 1225 | — | |
| | | 1125 | 1125 | 1125 | 1225 | — | |
| 005 | Heater Only 030 036 042 048 | 675 | 700 | 1050 | 1050 | 1400 | |
| | | 800 | 875 | 1100 | — | — | |
| | | 975 | 975 | 1100 | 1225 | — | |
| | | 1125 | 1125 | 1125 | 1225 | — | |
| | | 1305 | 1305 | 1305 | 1305 | 1400 | |
| 006 | Heater Only 036 042 048 060 | 1050 | 1050 | 1050 | 1050 | 1750 | |
| | | 1100 | 1100 | 1350 | 1350 | — | |
| | | 1125 | 1125 | 1350 | 1350 | — | |
| | | 1300 | 1300 | 1350 | 1465 | 1750 | |
| | | 1625 | 1625 | 1625 | 1750 | 1750 | |

NOTE: Heater Only—Air conditioner with electric heater application.

These airflows are the minimum acceptable air flows as U.L. listed.

Actual airflow delivered will be per the airflow delivery chart for Electric Heating Modes.



A96052

Acceptable Duct Conditions

For satisfactory operation (specifically making dry secondary trap), subject fan coils must be installed with duct systems which fall within the "Acceptable Range" illustrated above.

The airflow performance charts for the FV4B fan coil depict nominal airflow delivery for heating and cooling mode operation versus duct system static pressure drop. Cooling mode operation is shown as solid vertical lines for all 4 system size selections. Heating mode operation for the 4 system size selections are shown as dashed vertical lines.

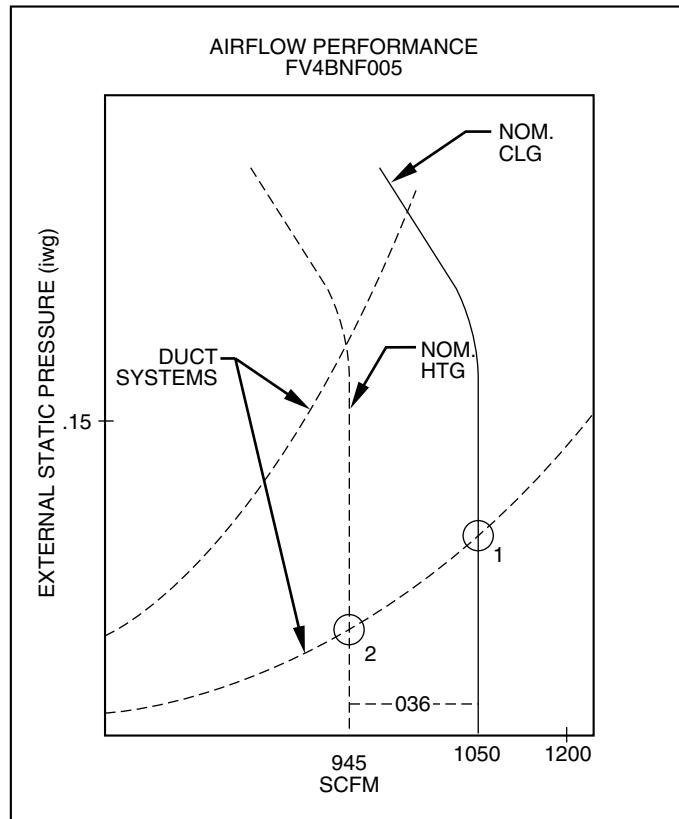
The dotted curved lines are static pres-

sure drop characteristics for several fixed-duct systems. These lines can be used to predict the system static pressure drop at any airflow given the actual drop at 1 known point.

For example, a duct system is designed for 0.15 inches water gage (iwg) drop at 1200 CFM. The FV4BNF005 operating at nominal cooling airflow would deliver 1050 CFM with a duct system drop of 0.11 iwg.

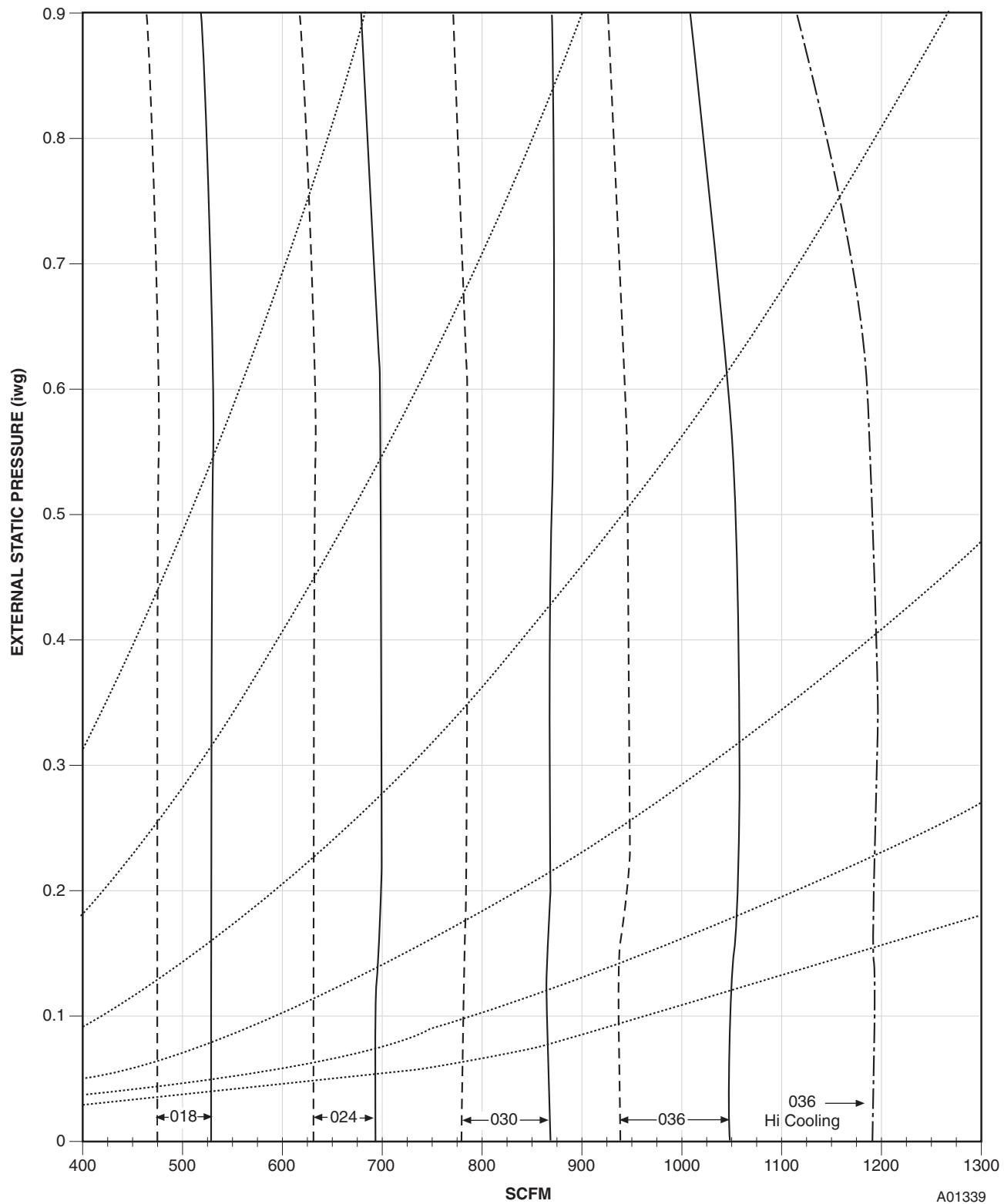
(See point 1.) On the same duct system, the FV4BNF005 operating at nominal heating airflow would deliver 945 CFM with a duct system drop of 0.09 iwg. (See point 2.)

This example is but one of many possible duct system designs. The FV4BNF005 will deliver the above airflows against much higher static pressures.



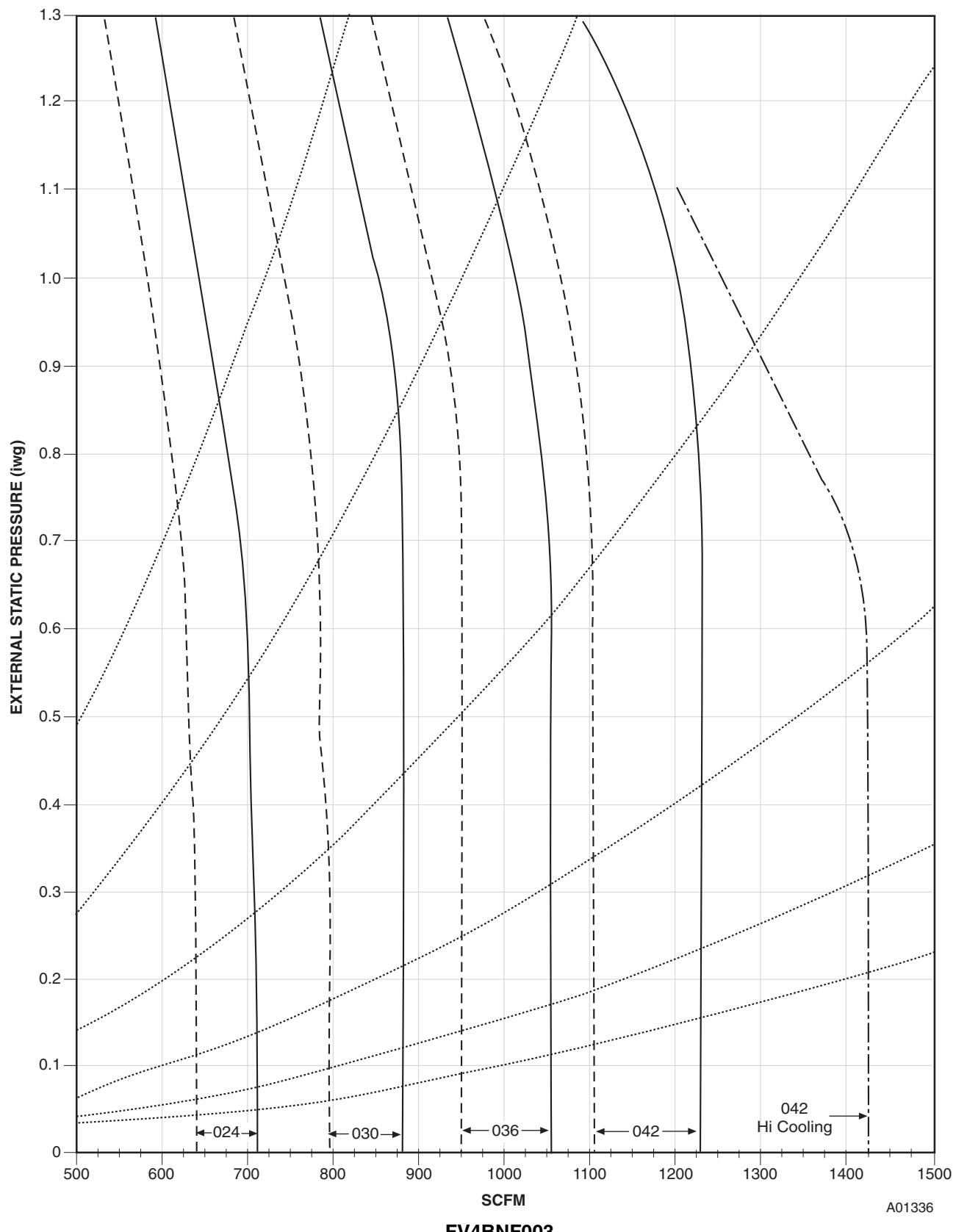
A02296

AIRFLOW PERFORMANCE



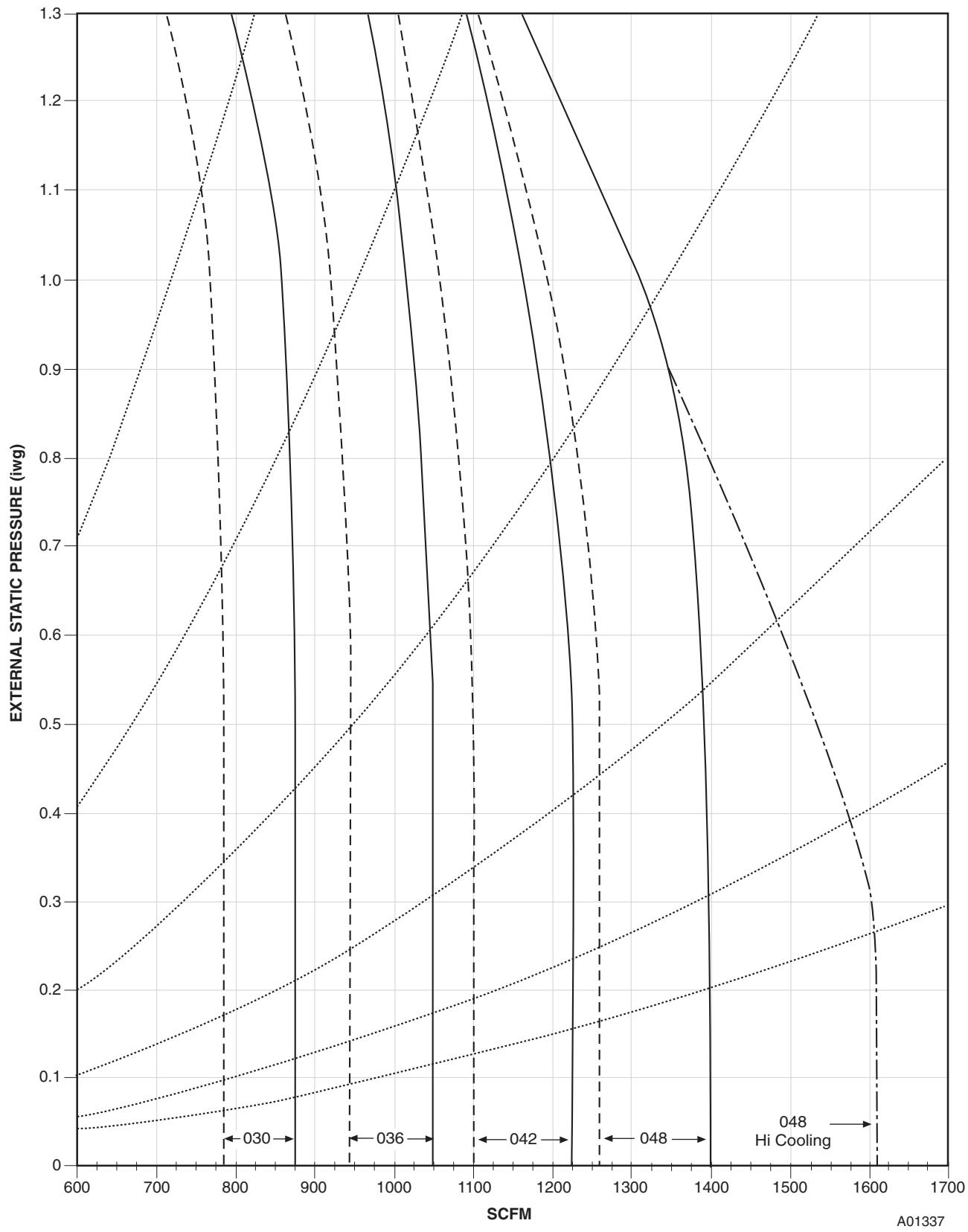
- Nominal Cooling and Heat Pump Efficiency airflow for each size selection. Airflow can be adjusted +15% to -10%
- - - Nominal Heat Pump Comfort airflow for each size selection. Airflow can be adjusted +15% to -10%
- - - Maximum cooling airflow for largest size selection. Adjusted +15% from nominal.
- Fixed Duct Systems (See description on page 8.)

AIRFLOW PERFORMANCE



- Nominal Cooling and Heat Pump Efficiency airflow for each size selection. Airflow can be adjusted +15% to -10%
- - - Nominal Heat Pump Comfort airflow for each size selection. Airflow can be adjusted +15% to -10%
- · - Maximum cooling airflow for largest size selection. Adjusted +15% from nominal.
- · · Fixed Duct Systems (See description on page 8.)

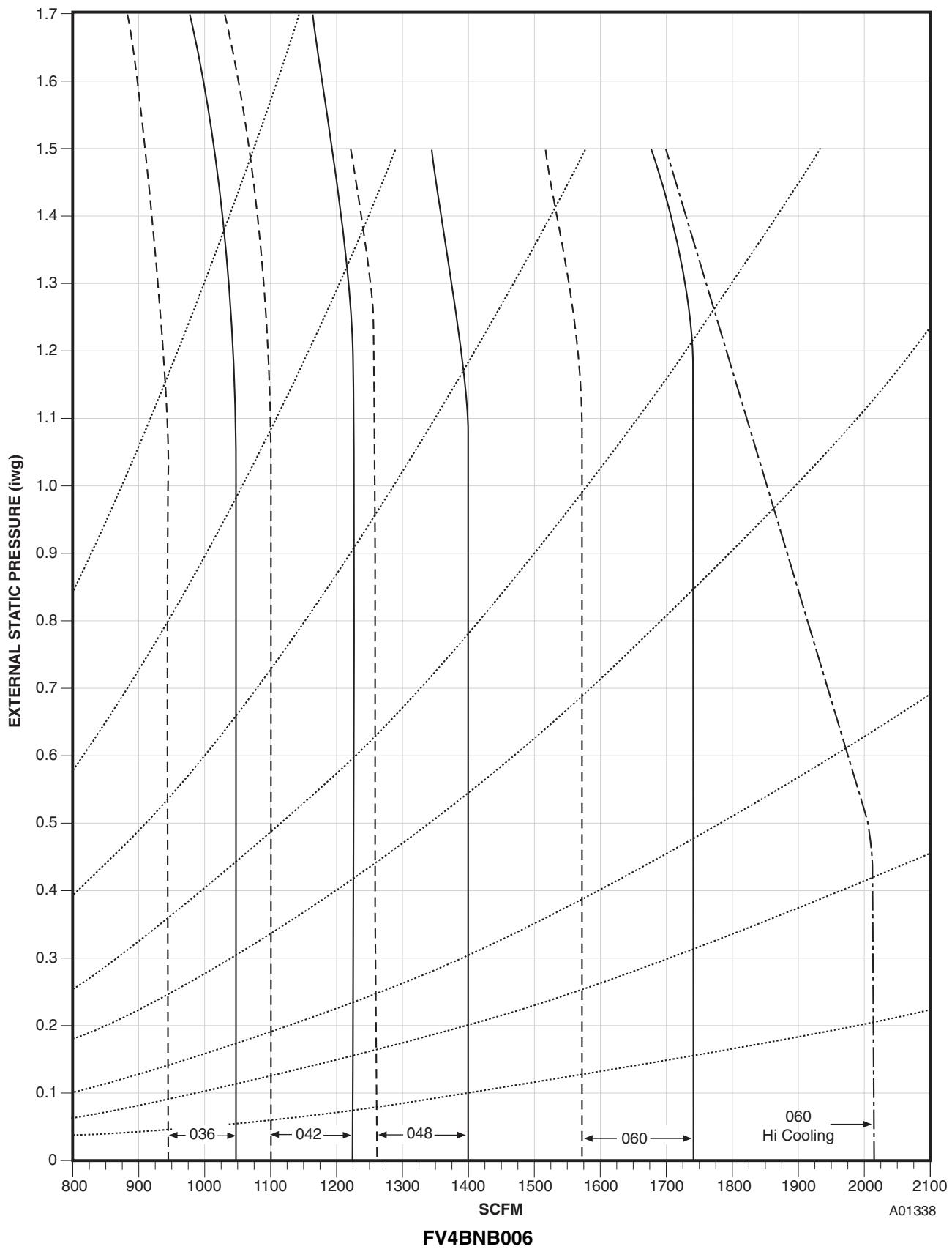
AIRFLOW PERFORMANCE



FV4BNF005

- Nominal Cooling and Heat Pump Efficiency airflow for each size selection. Airflow can be adjusted +15% to -10%
- - - Nominal Heat Pump Comfort airflow for each size selection. Airflow can be adjusted +15% to -10%
- · · Maximum cooling airflow for largest size selection. Adjusted +15% from nominal.
- Fixed Duct Systems (See description on page 8.)

AIRFLOW PERFORMANCE



- Nominal Cooling and Heat Pump Efficiency airflow for each size selection. Airflow can be adjusted +15% to -10%
- - - Nominal Heat Pump Comfort airflow for each size selection. Airflow can be adjusted +15% to -10%
- · - Maximum cooling airflow for largest size selection. Adjusted +15% from nominal.
- · · Fixed Duct Systems (See description on page 8.)

PERFORMANCE DATA Continued
COOLING CAPACITIES (MBtuh)

| UNIT SIZE | EVAPORATOR AIR Cfm BF | COIL REFRIGERANT TEMPERATURE (°F)* | | | | | | | | | | | | | | |
|-----------|-----------------------|-----------------------------------------------------|-----|----|-----|----|----|-----|----|----|----|----|----|----|----|----|
| | | 35 | | 40 | | 45 | | 50 | | 55 | | | | | | |
| | | Evaporator Air — Entering Wet-Bulb Temperature (°F) | | | | | | | | | | | | | | |
| | | 72 | 67 | 62 | 72 | 67 | 62 | 72 | 67 | 62 | 72 | 67 | 62 | 72 | 67 | 62 |
| 002 | 500 | 40 | 32 | 26 | 36 | 28 | 22 | 32 | 24 | 18 | 27 | 19 | 14 | 21 | 13 | 11 |
| | 0.04 | 18 | 18 | 19 | 16 | 16 | 17 | 14 | 14 | 15 | 12 | 12 | 13 | 10 | 10 | 11 |
| | 650 | 50 | 40 | 32 | 45 | 36 | 27 | 39 | 30 | 22 | 33 | 24 | 18 | 26 | 17 | 14 |
| | 0.07 | 21 | 22 | 23 | 19 | 20 | 21 | 16 | 17 | 18 | 14 | 15 | 16 | 12 | 13 | 14 |
| | 875 | 58 | 49 | 38 | 53 | 42 | 32 | 46 | 35 | 27 | 39 | 28 | 22 | 31 | 20 | 18 |
| | 0.10 | 24 | 26 | 28 | 22 | 24 | 25 | 19 | 21 | 22 | 17 | 19 | 19 | 15 | 16 | 18 |
| | 1000 | 62 | 51 | 41 | 56 | 45 | 35 | 50 | 38 | 29 | 42 | 30 | 24 | 33 | 22 | 20 |
| | 0.11 | 26 | 28 | 31 | 23 | 26 | 28 | 21 | 23 | 25 | 18 | 20 | 21 | 16 | 18 | 20 |
| | 1250 | 67 | 55 | 45 | 61 | 49 | 39 | 54 | 42 | 33 | 46 | 34 | 28 | 37 | 25 | 24 |
| | 0.13 | 29 | 33 | 36 | 27 | 30 | 33 | 24 | 27 | 30 | 22 | 24 | 26 | 19 | 21 | 24 |
| 003 | 800 | 59 | 48 | 38 | 53 | 42 | 32 | 46 | 35 | 24 | 39 | 27 | 20 | 30 | 18 | 16 |
| | 0.20 | 28 | 29 | 31 | 25 | 27 | 28 | 22 | 23 | 24 | 19 | 20 | 20 | 16 | 16 | 16 |
| | 1000 | 68 | 56 | 45 | 61 | 49 | 37 | 54 | 41 | 29 | 45 | 32 | 25 | 35 | 22 | 20 |
| | 0.22 | 32 | 34 | 37 | 29 | 31 | 33 | 26 | 28 | 28 | 23 | 24 | 25 | 19 | 20 | 20 |
| | 1200 | 75 | 62 | 49 | 68 | 54 | 42 | 60 | 45 | 34 | 50 | 36 | 29 | 40 | 25 | 23 |
| | 0.25 | 35 | 39 | 42 | 32 | 36 | 38 | 29 | 32 | 33 | 26 | 28 | 29 | 22 | 23 | 23 |
| | 1400 | 80 | 67 | 54 | 73 | 59 | 46 | 64 | 49 | 38 | 54 | 39 | 32 | 43 | 28 | 27 |
| 005 | 0.27 | 38 | 43 | 47 | 35 | 39 | 43 | 32 | 36 | 37 | 28 | 32 | 32 | 24 | 26 | 27 |
| | 750 | 61 | 49 | 39 | 55 | 43 | 33 | 48 | 37 | 27 | 41 | 29 | 20 | 33 | 21 | 17 |
| | 0.04 | 27 | 27 | 28 | 24 | 25 | 25 | 21 | 22 | 22 | 18 | 18 | 18 | 15 | 15 | 15 |
| | 950 | 74 | 60 | 48 | 67 | 53 | 40 | 59 | 45 | 33 | 50 | 35 | 25 | 39 | 24 | 21 |
| | 0.06 | 32 | 34 | 35 | 29 | 30 | 31 | 25 | 26 | 27 | 22 | 23 | 23 | 18 | 18 | 19 |
| | 1150 | 89 | 72 | 57 | 79 | 63 | 48 | 69 | 52 | 38 | 58 | 41 | 31 | 44 | 29 | 25 |
| | 0.07 | 37 | 39 | 41 | 33 | 35 | 36 | 29 | 31 | 32 | 25 | 26 | 27 | 20 | 22 | 22 |
| | 1500 | 103 | 84 | 66 | 92 | 73 | 56 | 81 | 61 | 46 | 67 | 48 | 39 | 52 | 34 | 31 |
| 006 | 0.10 | 43 | 46 | 49 | 38 | 41 | 44 | 34 | 37 | 39 | 29 | 32 | 33 | 25 | 27 | 27 |
| | 1700 | 110 | 89 | 71 | 99 | 78 | 60 | 86 | 65 | 49 | 72 | 51 | 42 | 56 | 37 | 35 |
| | 0.11 | 45 | 50 | 53 | 41 | 45 | 48 | 36 | 39 | 42 | 31 | 34 | 36 | 27 | 29 | 30 |
| | 1050 | 77 | 62 | 50 | 69 | 55 | 43 | 61 | 47 | 35 | 52 | 38 | 27 | 41 | 27 | 22 |
| | 0.01 | 34 | 36 | 37 | 31 | 32 | 33 | 27 | 28 | 29 | 23 | 25 | 24 | 20 | 20 | 20 |
| | 1300 | 100 | 82 | 65 | 90 | 71 | 55 | 79 | 60 | 45 | 66 | 47 | 37 | 49 | 32 | 27 |
| | 0.02 | 42 | 45 | 47 | 37 | 40 | 42 | 33 | 35 | 37 | 29 | 31 | 32 | 23 | 25 | 24 |
| 006 | 1750 | 117 | 96 | 77 | 106 | 84 | 65 | 93 | 71 | 53 | 78 | 56 | 46 | 60 | 40 | 34 |
| | 0.04 | 48 | 53 | 57 | 44 | 48 | 52 | 39 | 43 | 46 | 34 | 38 | 39 | 29 | 31 | 31 |
| | 2050 | 126 | 103 | 83 | 114 | 91 | 71 | 99 | 76 | 59 | 84 | 60 | 50 | 65 | 44 | 39 |
| | 0.05 | 52 | 58 | 63 | 48 | 53 | 57 | 43 | 47 | 51 | 37 | 42 | 43 | 33 | 35 | 35 |
| | 2300 | 132 | 108 | 87 | 119 | 95 | 75 | 105 | 80 | 63 | 88 | 63 | 54 | 70 | 47 | 42 |
| 006 | 0.06 | 55 | 62 | 68 | 50 | 57 | 61 | 45 | 51 | 54 | 40 | 45 | 46 | 35 | 39 | 38 |

See notes on page 15.

* Saturated suction leaving evaporator coil.

Sensible Heat Capacity (1000 Btuh)

Gross Cooling Capacity (1000 Btuh)

BF—Bypass Factor

NOTES:

- Net capacities shown include a deduction for evaporator fan motor heat.
- Contact manufacturer for cooling capacities at conditions other than shown in table.

3. Formulas:

$$\text{Leaving db} = \text{entering db} - \frac{\text{sensible heat cap.}}{1.09 \times \text{CFM}}$$

$$\text{Leaving wb} = \text{wb corresponding to enthalpy of air leaving coil } (h_{lw}) - \frac{\text{total capacity (Btuh)}}{4.5 \times \text{CFM}}$$

where h_{ewb} = enthalpy of air entering coil.

- Direct interpolation is permissible. Do not extrapolate.

- SHC is based on 80°F db temperature of air entering coil. Below 80°F subtract (corr factor x CFM) from SHC.
- Above 80°F db, add (corr factor x CFM) to SHC.

SHC CORRECTION FACTOR

| BYPASS FACTOR | ENTERING AIR DRY-BULB TEMP (°F) | | | | | |
|-------------------|---------------------------------|------|------|------|------|-------------------------|
| | 79 | 78 | 77 | 76 | 75 | Under 75 |
| | 81 | 82 | 83 | 84 | 85 | Over 85 |
| Correction Factor | | | | | | |
| 0.10 | 0.98 | 1.96 | 2.94 | 3.92 | 4.91 | |
| 0.20 | 0.87 | 1.74 | 2.62 | 3.49 | 4.36 | |
| 0.30 | 0.76 | 1.53 | 2.29 | 3.05 | 3.82 | Use formula shown below |

Interpolation is permissible.

Correction Factor = $1.09 \times (1 - BF) \times (db - 80)$

PERFORMANCE DATA Continued

ESTIMATED SOUND POWER LEVEL (dBA)*

| UNIT SIZE | CONDITIONS | | OCTAVE BAND CENTER FREQUENCY | | | | | | |
|--------------|------------|------|------------------------------|------|------|------|------|------|------|
| | CFM | ESP | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 |
| FV4-002 | 400 | 0.25 | 63.0 | 59.0 | 55.0 | 52.0 | 50.0 | 48.0 | 44.0 |
| | 600 | 0.25 | 64.7 | 60.7 | 56.7 | 53.7 | 51.7 | 49.7 | 45.7 |
| | 800 | 0.25 | 66.0 | 62.0 | 58.0 | 55.0 | 53.0 | 51.0 | 47.0 |
| | 1000 | 0.25 | 67.0 | 63.0 | 59.0 | 56.0 | 54.0 | 52.0 | 48.0 |
| | 1200 | 0.25 | 67.8 | 63.8 | 59.8 | 56.8 | 54.8 | 52.8 | 48.8 |
| | 1400 | 0.25 | 68.4 | 64.4 | 60.4 | 57.4 | 55.4 | 53.4 | 49.4 |
| FV4-003 | 400 | 0.25 | 63.0 | 59.0 | 55.0 | 52.0 | 50.0 | 48.0 | 44.0 |
| | 600 | 0.25 | 64.7 | 60.7 | 56.7 | 53.7 | 51.7 | 49.7 | 45.7 |
| | 800 | 0.25 | 66.0 | 62.0 | 58.0 | 55.0 | 53.0 | 51.0 | 47.0 |
| | 1000 | 0.25 | 67.0 | 63.0 | 59.0 | 56.0 | 54.0 | 52.0 | 48.0 |
| | 1200 | 0.25 | 67.8 | 63.8 | 59.8 | 56.8 | 54.8 | 52.8 | 48.8 |
| | 1400 | 0.25 | 68.4 | 64.4 | 60.4 | 57.4 | 55.4 | 53.4 | 49.4 |
| | 636 | 0.25 | 65.0 | 61.0 | 57.0 | 54.0 | 52.0 | 50.0 | 46.0 |
| FV4-005 | 400 | 0.25 | 63.0 | 59.0 | 55.0 | 52.0 | 50.0 | 48.0 | 44.0 |
| | 600 | 0.25 | 64.7 | 60.7 | 56.7 | 53.7 | 51.7 | 49.7 | 45.7 |
| | 800 | 0.25 | 66.0 | 62.0 | 58.0 | 55.0 | 53.0 | 51.0 | 47.0 |
| | 1000 | 0.25 | 67.0 | 63.0 | 59.0 | 56.0 | 54.0 | 52.0 | 48.0 |
| | 1200 | 0.25 | 67.8 | 63.8 | 59.8 | 56.8 | 54.8 | 52.8 | 48.8 |
| | 1400 | 0.25 | 68.4 | 64.4 | 60.4 | 57.4 | 55.4 | 53.4 | 49.4 |
| | 1600 | 0.25 | 69.0 | 65.0 | 61.0 | 58.0 | 56.0 | 54.0 | 50.0 |
| FV4-006 | 600 | 0.25 | 64.7 | 60.7 | 56.7 | 53.7 | 51.7 | 49.7 | 45.7 |
| | 800 | 0.25 | 66.0 | 62.0 | 58.0 | 55.0 | 53.0 | 51.0 | 47.0 |
| | 1000 | 0.25 | 67.0 | 63.0 | 59.0 | 56.0 | 54.0 | 52.0 | 48.0 |
| | 1200 | 0.25 | 67.8 | 63.8 | 59.8 | 56.8 | 54.8 | 52.8 | 48.8 |
| | 1400 | 0.25 | 68.4 | 64.4 | 60.4 | 57.4 | 55.4 | 53.4 | 49.4 |
| | 1600 | 0.25 | 69.0 | 65.0 | 61.0 | 58.0 | 56.0 | 54.0 | 50.0 |
| | 1800 | 0.25 | 69.5 | 65.5 | 61.5 | 58.5 | 56.5 | 54.5 | 50.5 |
| | 2000 | 0.25 | 70.0 | 66.0 | 62.0 | 59.0 | 57.0 | 55.0 | 51.0 |
| | 2150 | 0.25 | 70.3 | 66.3 | 62.3 | 59.3 | 57.3 | 55.3 | 51.3 |

* Estimated sound power levels have been derived using the method described in the 1987 ASHRAE Systems & Applications Handbook, chapter 52, p. 52.7.

CFM — Cubic Ft per Minute

ESP — External Static Pressure

RPM — Revolutions per Minute

PERFORMANCE DATA Continued

AIRFLOW PERFORMANCE CORRECTION FACTORS

The FV4B Airflow Performance table was developed using fan coils with 10-kw electric heaters (2 elements) in the units. For fan coils with heaters made up of a different number of elements, the external available static at a given CFM from the table may be corrected by adding or subtracting pressure. Use table for correction.

| HEATER KW | ELEMENTS | STATIC PRESSURE CORRECTION (in. wc) | |
|------------|----------|----------------------------------------|----------|
| | | Sizes 002-005 | Size 006 |
| 0 | 0 | .02 | .03 |
| 5 | 1 | .01 | .02 |
| 8, 10 | 2 | 0 | 0 |
| 9, 15 | 3 | -.02 | -.03 |
| 20 | 4 | -.04 | -.06 |
| 18, 24, 30 | 6 | -.06 | -.10 |

FACTORY-INSTALLED FILTER STATIC PRESSURE DROP (In. wc)

| MODEL FV4B | CFM | | | | | | | | |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 400 | 600 | 800 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 |
| 002 | 0.020 | 0.044 | 0.048 | 0.072 | 0.100 | — | — | — | — |
| 003 | — | 0.020 | 0.035 | 0.051 | 0.070 | 0.092 | — | — | — |
| 005 | — | — | 0.035 | 0.051 | 0.070 | 0.092 | 0.120 | — | — |
| 006 | — | — | — | — | 0.070 | 0.092 | 0.120 | 0.152 | 0.187 |

AIR DELIVERY PERFORMANCE CORRECTION COMPONENT PRESSURE DROP (IN. WC) AT INDICATED AIRFLOW (DRY TO WET COIL)

| MODEL FV4B | CFM | | | | | | | | | | |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 |
| 002 | 0.012 | 0.016 | 0.022 | 0.028 | 0.034 | 0.040 | 0.049 | — | — | — | — |
| 003 | — | 0.026 | 0.034 | 0.042 | 0.052 | 0.063 | 0.075 | 0.083 | 0.091 | 0.098 | 0.110 |
| 005 | — | 0.006 | 0.008 | 0.010 | 0.012 | 0.015 | 0.017 | 0.020 | 0.023 | 0.027 | 0.030 |
| CFM | | | | | | | | | | | |
| | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 |
| 006 | 0.013 | 0.016 | 0.018 | 0.020 | 0.023 | 0.027 | 0.030 | 0.034 | 0.039 | 0.044 | 0.048 |

NOTE: Subtract the above pressure drop corrections from unit airflow data when that component or condition is used. The remaining external static pressure will be available for the duct system.

ACCESSORY LIST

| ITEM | ACCESSORY PART NO. | FAN COIL SIZE USED WITH FV4B |
|-------------------------------------------|--------------------|--------------------------------------------|
| Disconnect Kit | KFADK0101DSC | Cooling controls and heaters through 10-kw |
| Downflow Conversion Kit (Slope) | KFADC0201SLP | 003 |
| Downflow Conversion Kit (A-coil) | KFADC0401ACL | 002, 005, 006 |
| Downflow Base Kit | KFACB0201CFB | 002 |
| | KFACB0301CFB | 003, 005 |
| | KFACB0401CFB | 006 |
| Filter Kit (12 Pack) | KFAFK0212MED | 002 |
| | KFAFK0312LRG | 003, 005 |
| | KFAFK0412XXL | 006 |
| Single-Point Wiring Kit | KFASP0101SPK | Only with 15- and 20-kw Fused Heaters |
| Airflow Sensor Kit (Air Cleaner) | KEAAC0101AAA | All |
| Air Cleaner 240-Volt Conversion Kit | KEAVC0201240 | All |
| PVC Condensate Drain Trap Kit (50 Pack) | KFAET0150ETK | All |
| ECM Motor Tester Kit | KFASD0301VSP | All |
| Downflow/Horizontal Conversion Gasket Kit | KFAHD0101SLP | All |

ACCESSORY KITS DESCRIPTION SUGGESTED AND REQUIRED USE

1. Disconnect Kit

The kit is used to disconnect electrical power to the fan coil so service or maintenance may be performed safely.

SUGGESTED USE: FV4 units with 3- through 10-kw electric resistance heaters and cooling controls.

2. Downflow Conversion Kit

Fan coils are shipped from the factory for upflow or horizontal-left applications. Downflow conversion kits provide proper condensate water drainage and support for the coil when used in downflow applications. Separate kits are available for slope coils and A-coils.

REQUIRED USE: This kit must be used whenever FV4 fan coils are used in downflow applications.

3. Downflow Base Kit

This kit is designed to provide a 1-in. minimum clearance between unit discharge plenum, ductwork, and combustible materials. It also provides a gap free seal with the floor.

REQUIRED USE: This kit must be used whenever FV4 fan coils are used in downflow applications.

4. Single-Point Wiring Kit

The single-point wiring kit acts as a jumper between L1 and L3 lugs, and between L2 and L4 lugs. This allows the installer to run 2 heavy-gage, high-voltage wires into the fan coil rather than 4 light-gage, high-voltage wires.

SUGGESTED USE: FV4 fan coils with 15- and 20-kw fused heaters only.

5. Air Cleaner 240-Volt Conversion Kit

The AIRA electronic air cleaner comes ready for 115-v operation.

REQUIRED USE: This kit is required when running 240-volt circuit to air cleaner.

6. Airflow Sensor Kit (Air Cleaner)

The airflow sensor kit ensures the FV4 fan coil and electronic air cleaner work as a system.

REQUIRED USE: This kit is required whenever an electronic air cleaner is used with an FV4 fan coil.

7. Fan Coil Filter

Kit shipped from factory with 12 fan coil framed filters. These filters collect large dust particles from the return air entering the fan coil and prevents them from collecting on the coil. This process helps to keep the coil clean, which increases heat transfer and in turn the efficiency of the system.

SUGGESTED USE: For replacing factory-supplied filters (same filters).

8. Condensate Drain Trap Kit

This kit consists of 50 PVC condensate traps. Each trap is pre-formed and ready for field installation. This deep trap helps the system make and hold proper condensate flow even during blower initiation.

SUGGESTED USE: FV4 fan coils.

9. ECM Motor Tester

Operates variable speed blower at several speeds independent of circuit board and wiring harness.

SUGGESTED USE: FV4 fan coils.

10. Downflow/Horizontal Conversion Gasket Kit

This kit provides the proper gasketing of units when applied in either a Downflow or Horizontal application.

REQUIRED USE: FV4 fan coils.

ELECTRICAL DATA
UNITS WITHOUT ELECTRIC HEATER

| UNIT SIZE | VOLTS-PHASE | FLA | MIN CKT AMPS | BRANCH CIRCUIT | |
|-----------|-------------|-----|--------------|--------------------|-------------------|
| | | | | Min Wire Size Awg* | Fuse/Ckt Bkr Amps |
| 002 | 208/230-1 | 4.3 | 5.4 | 14 | 15 |
| 003 | 208/230-1 | 4.3 | 5.4 | 14 | 15 |
| 005 | 208/230-1 | 4.3 | 5.4 | 14 | 15 |
| 006 | 208/230-1 | 6.8 | 8.5 | 14 | 15 |

* Use copper wire only to connect unit. If other than uncoated (nonplated) 75°F ambient, copper wire (solid wire for 10 AWG and smaller, stranded wire for larger than 10 AWG) is used consult applicable tables of the National Electric Code (ANSI/NFPA 70).

NOTE: If branch circuit wire length exceeds 100 ft, consult NEC 210-19a to determine maximum wire length. Use 2% voltage drop.
FLA — Full Load Amps

ACCESSORY ELECTRIC HEATERS
ELECTRIC HEATERS

| HEATER PART NO. | KW @ 240V | VOLTS/PHASE | STAGES (KW OPERATING) | INTERNAL CIRCUIT PROTECTION | FAN COIL SIZE USED WITH | HEATING CAP. @230V‡ | INTELLIGENT HEAT CAPABLE (KW OPERATING)†† |
|-----------------|-----------|-------------|-----------------------|-----------------------------|-------------------------|---------------------|-------------------------------------------|
| KFCEH0501N05 | 5 | 230/1 | 5 | None | All | 15,700 | — |
| KFCEH0801N08 | 8 | 230/1 | 8 | None | All | 25,100 | — |
| KFCEH0901N10 | 10 | 230/1 | 10 | None | All | 31,400 | — |
| KFCEH3001F15 | 15 | 230/1 | 5, 15 | Fuses** | All | 47,100 | 5, 10, 15 |
| KFCEH3201F20 | 20 | 230/1 | 5, 20 | Fuses** | All | 62,800 | 5, 10, 15, 20 |
| KFCEH2901N09 | 9 | 230/1* | 3, 9 | None | All | 28,300 | 3, 6, 9 |
| KFCEH1601315 | 15 | 230/3 | 5, 15 | None | All | 47,100 | — |
| KFCEH2001318 | 18 | 230/3 | 6, 12, 18 | None | 003, 005, 006 | 56,500 | — |
| KFCEH3401F24 | 24 | 230/3† | 8, 16, 24 | Fuses | 005, 006 | 78,500 | 8, 16, 24 |
| KFCEH3501F30 | 30 | 230/3† | 10, 20, 30 | Fuses | 005, 006 | 94,200 | 10, 20, 30 |
| KFCEH2401C05 | 5 | 230/1 | 5 | Ckt Bkr | All | 15,700 | — |
| KFCEH2501C08 | 8 | 230/1 | 8 | Ckt Bkr | All | 25,100 | — |
| KFCEH2601C10 | 10 | 230/1 | 10 | Ckt Bkr | All | 31,400 | — |
| KFCEH3101C15 | 15 | 230/1 | 5, 15 | Ckt Bkr | All | 47,100 | 5, 10, 15 |
| KFCEH3301C20 | 20 | 230/1 | 5, 20 | Ckt Bkr | All | 62,800 | 5, 10, 15, 20 |

* Field convertible to 3 phase.

† These heaters field convertible to single phase.

‡ Blower motor heat not included.

** Single point wiring kit required for these heaters in Canada.

†† Heaters designated with KW Operating Values are Intelligent Heat capable when used with corporate 2-speed programmable thermostat (TSTATBBP2S01-B), Thermidistat™ Control (TSTATBBPRH01-B), or Zone Perfect Plus.

ELECTRIC HEATER INTERNAL PROTECTION

| HEATER KW | PHASE | FUSES QTY/SIZE | CKT BKR * QTY/SIZE |
|-----------|-------|----------------|--------------------|
| 5 | 1 | — | 1/60 |
| 8 | 1 | — | 1/60 |
| 9 | 1/3 | — | — |
| 10 | 1 | — | 1/60 |
| 15 | 1 | 2/30, 2/60 | 2/60 |
| 15 | 3 | — | — |
| 18 | 3 | — | — |
| 20 | 1 | 4/60 | 2/60 |
| 24 | 3/1 | 6/60 | — |
| 30 | 3/1 | 6/60 | — |

* All circuit breakers are 2 pole.

Electric Heater Electrical Data

| HEATER PART NO. | KW | PHASE | INTERNAL CIRCUIT PROTECTION | HEATER AMPS 208/230V | | | MIN AMPACITY 208/230V* | | | MIN WIRE SIZE (AWG) 208/230V† | | | MAX FUSE/CKT BKR AMPS 208/230V | | | MAX WIRE LENGTH 208/230V (FT)‡ | | | | | | | | |
|------------------|----|-------|-----------------------------|----------------------|-------------|-----------|------------------------|-------------|-----------|-------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|---------|-------|--------------|---------|-------|-------|---|---|
| | | | | Single Circuit | | L1,L2 | Dual Circuit | | L1,L2 | Single Circuit | | L1,L2 | Dual Circuit | | L1,L2 | Single Circuit | | L1,L2 | Dual Circuit | | L1,L4 | | | |
| | | | | 240v | 208v | None | 10.9/12.0 | — | — | 15.9/17.3 | — | — | 12/12 | — | — | 20/20 | — | — | 67/68 | — | — | — | | |
| KFCEH0401N03 | 3 | 2.3 | 1 | None | 18.1/20.0 | — | — | 26.0/28.4 | — | — | 10/10 | — | — | 10/10 | — | — | 30/30 | — | — | 66/66 | — | — | — | |
| KFCEH0501N05† | 5 | 3.8 | 1 | None | 18.1/20.0 | — | — | 31.2/33.5 | — | — | 8/8 | — | — | 10/10 | — | — | 35/35 | — | — | 85/88 | — | — | — | |
| KFCEH0501N05‡ | 5 | 3.8 | 1 | Ckt Bkr | 18.1/20.0 | — | — | 26.0/28.4 | — | — | 10/10 | — | — | 10/10 | — | — | 30/30 | — | — | 66/66 | — | — | — | |
| KFCEH2401C05† | 5 | 3.8 | 1 | Ckt Bkr | 18.1/20.0 | — | — | 31.2/33.5 | — | — | 8/8 | — | — | 10/10 | — | — | 35/35 | — | — | 85/88 | — | — | — | |
| KFCEH2401C05‡ | 5 | 3.8 | 1 | Ckt Bkr | 18.1/20.0 | — | — | 44.7/48.5 | — | — | 8/8 | — | — | 10/10 | — | — | 45/50 | — | — | 59/60 | — | — | — | |
| KFCEH0801N08 | 8 | 6.0 | 1 | None | 28.9/32.0 | — | — | 44.7/48.5 | — | — | 8/8 | — | — | 10/10 | — | — | 45/50 | — | — | 59/60 | — | — | — | |
| KFCEH2501C08 | 8 | 6.0 | 1 | Ckt Bkr | 28.9/32.0 | — | — | 49.5/53.5 | — | — | 8/8 | — | — | 10/10 | — | — | 50/60 | — | — | 54/87 | — | — | — | |
| KFCEH2901N09***† | 9 | 6.8 | 3 | None | 18.8/20.8 | — | — | 32.0/34.5 | — | — | 8/8 | — | — | 10/10 | — | — | 35/35 | — | — | 83/85 | — | — | — | |
| KFCEH0901N10 | 10 | 7.5 | 1 | None | 36.2/40.0 | — | — | 53.8/58.5 | — | — | 6/6 | — | — | 10/10 | — | — | 60/60 | — | — | 78/80 | — | — | — | |
| KFCEH2601C10 | 10 | 7.5 | 1 | Ckt Bkr | 36.2/40.0 | — | — | 53.8/58.5 | — | — | 6/6 | — | — | 10/10 | — | — | 60/60 | — | — | 78/80 | — | — | — | |
| KFCEH3001F15*** | 15 | 11.3 | 1 | Fuse | 54.2/59.9 | 36.2/40.0 | 18.1/20.0 | 76.3/83.4 | 53.8/58.5 | 22.7/25.0 | 4/4 | 6/6 | 10/10 | 8/8 | 10/10 | 10/10 | 80/90 | 60/60 | 25/25 | 88/89 | 78/80 | 75/76 | — | |
| KFCEH3101C15*** | 15 | 11.3 | 1 | Ckt Bkr | — | 36.2/40.0 | 18.1/20.0 | — | 53.8/58.5 | 22.7/25.0 | — | 6/6 | 10/10 | — | 10/10 | 10/10 | — | 60/60 | 25/25 | — | 78/80 | 75/76 | — | — |
| KFCEH1601C15 | 15 | 11.3 | 3 | None | 31.3/34.6 | — | — | 47.7/51.8 | — | — | 8/6 | — | — | 10/10 | — | — | 50/60 | — | — | 56/90 | — | — | — | |
| KFCEH2001C18 | 18 | 13.5 | 3 | None | 37.6/41.5 | — | — | 55.5/60.4 | — | — | 6/6 | — | — | 10/8 | — | — | 60/70 | — | — | 76/77 | — | — | — | |
| KFCEH3201F20*** | 20 | 15.0 | 1 | Fuse | 72.3/79.9 | 36.2/40.0 | 36.2/40.0 | 98.9/108.4 | 53.8/58.5 | 45.3/50.0 | 3/2 | 6/6 | 8/8 | 8/6 | 10/10 | 10/10 | 100/110 | 60/60 | 50/50 | 85/109 | 78/80 | 59/59 | — | |
| KFCEH3301C20*** | 20 | 15.0 | 1 | Ckt Bkr | — | 36.2/40.0 | 36.2/40.0 | — | 53.8/58.5 | 45.3/50.0 | — | 6/6 | 8/8 | — | 10/10 | 10/10 | — | 60/60 | 50/50 | — | 78/80 | 59/59 | — | — |
| KFCEH3401F24*** | 24 | 18.0 | 3 | Fuse | 50.1/55.4 | — | — | 71.7/77.8 | — | — | 4/4 | — | — | 8/8 | — | — | 80/80 | — | — | 94/95 | — | — | — | |
| KFCEH3401F24† | 24 | 18.0 | 1 | Fuse | 86.7/95.5 | — | — | 116.9/127.9 | — | — | 1/1 | — | — | 6/6 | — | — | 125/150 | — | — | 115/116 | — | — | — | |
| KFCEH3501F30*** | 30 | 22.5 | 3 | Fuse | 62.6/69.2 | — | — | 86.8/95.0 | — | — | 3/3 | — | — | 8/8 | — | — | 90/100 | — | — | 97/98 | — | — | — | |
| KFCEH3501F30† | 30 | 22.5 | 1 | Fuse | 109.0/120.0 | — | — | 144.8/158.5 | — | — | 0/0 | — | — | 6/6 | — | — | 150/175 | — | — | 117/150 | — | — | — | |

—19—

Field Multipoint Wiring of 24-and 30-Kw Single Phase

| HEATER PART NO. | KW | PHASE | HEATER AMPS 208/230V | | | MIN AMPACITY 208/230V* | | | MIN WIRE SIZE (AWG) 208/230V† | | | MAX FUSE/CKT BKR AMPS 208/230V | | | MAX WIRE LENGTH 208/230V (FT)‡ | | | | | | |
|-----------------|----|-------|----------------------|-----------|-----------|------------------------|-----------|-------|-------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------|-------|-------|-------|
| | | | Single Circuit | | L1,L2 | Dual Circuit | | L1,L2 | Single Circuit | | L1,L2 | Dual Circuit | | L1,L2 | Single Circuit | | L1,L2 | Dual Circuit | | L1,L2 | |
| | | | 240V | 208V | L1,L2 | L3,L4 | L1,L2 | L3,L4 | L1,L2 | L3,L4 | L1,L2 | L3,L4 | L1,L2 | L3,L4 | L1,L2 | L3,L4 | L1,L2 | L3,L4 | L1,L2 | L3,L4 | |
| KFCEH3401F24†** | 24 | 18.0 | 1 | 28.9/32.0 | 28.9/32.0 | 44.7/48.5 | 36.2/40.0 | 8/8 | 8/8 | 8/8 | 8/8 | 10/10 | 45/50 | 40/40 | 40/40 | 59/60 | 73/73 | 73/73 | 59/59 | 59/59 | 59/59 |
| KFCEH3501F30†** | 30 | 22.5 | 1 | 36.2/40.0 | 36.2/40.0 | 53.8/58.5 | 45.3/50.0 | 6/6 | 8/8 | 8/8 | 8/8 | 10/10 | 50/50 | 50/50 | 50/50 | 78/80 | 59/59 | 59/59 | 59/59 | 59/59 | 59/59 |

† Field convertible to 1 phase, single or multiple supply circuit.

‡ Field convertible to 3 phase.

** Includes blower motor amps of largest fan coil used with heater.

†† Copper wire must be used. If other than uncoated (non-plated), 75°C ambient, copper wire (solid wire for 10 AWG and smaller, stranded wire for larger than 10 AWG) is used, consult applicable tables of the National Electric Code (ANSI/NFPA 70).

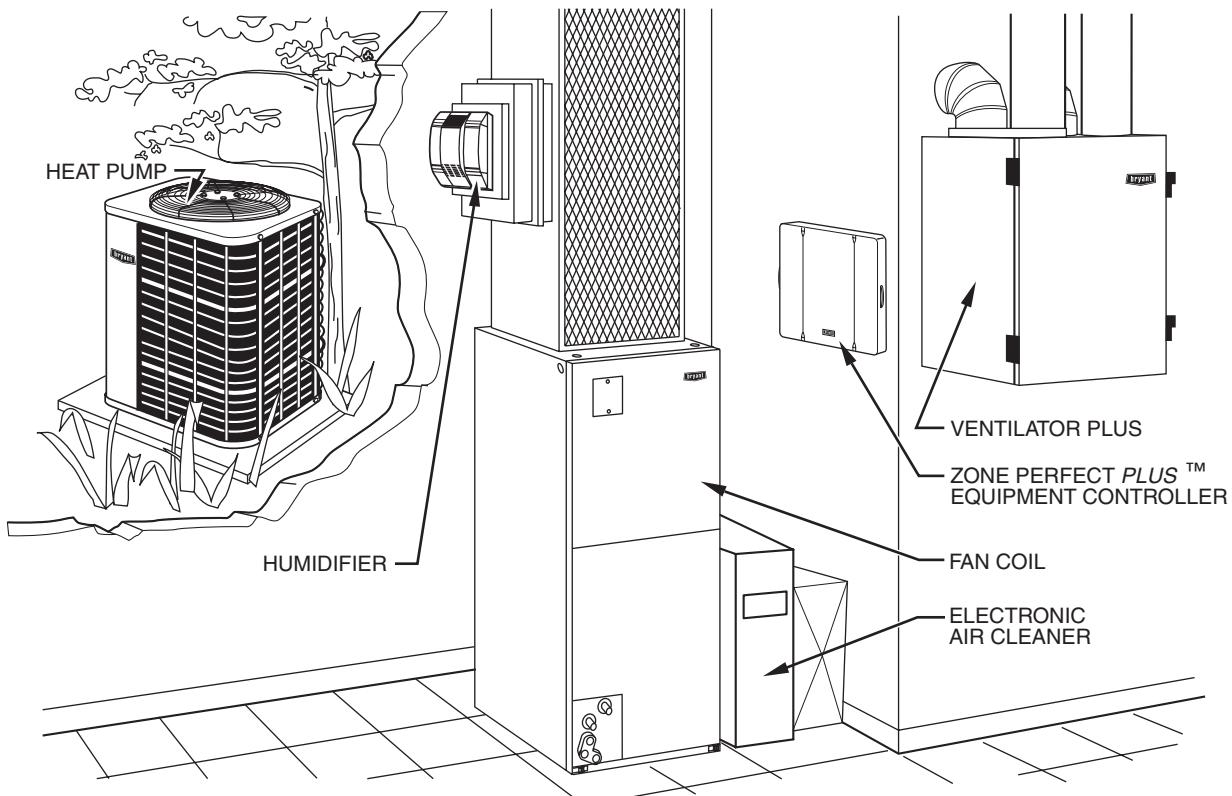
*** Heaters are Intelligent Heat capable when used with the FK, FV fan coils and corporate 2-speed programmable thermostat (TSTATBBP2S01-B), Thermidistat™ Control (TSTATBBPRH01-B), or Zone Perfect Plus.

NOTES: 1. For fan coil sizes 018-036.

2. For fan coil sizes 042-060 and all FK4D, FV4B sizes.

3. Single circuit application of F15 and F20 heaters requires single-point wiring kit accessory.

MATCHED SYSTEM



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

UNIT MUST BE INSTALLED IN ACCORDANCE
WITH INSTALLATION INSTRUCTIONS

Cancels: PDS FV4B.03.2
Form FV4B.03.3