

The Fedders 80% AFUE 2-Stage Variable Speed All-Position gas furnaces are among the smallest in the industry and are suitable for a variety of installations. The FV80 Series furnace provides homeowners with consistent air circulation and temperature control, resulting in lower monthly energy bills.

APPLICATIONS:

Perfect for a variety of installations. Free standing in an attic, utility room, closet, alcove or basement.

EFFICIENCY:

80% AFUE

Variable speed blower motor, two-stage heating and two-stage inducer allows for quiet operation and less energy consumption

EASY TO INSTALL AND SERVICE:

Built-in self diagnostics

Humidifier and electronic air cleaner terminals

Factory shipped for natural gas, with LP Gas Conversion kits available

All position capability

Left or right side gas and electric entry

Single or two-stage thermostat ready

FV80 Series All-Position Gas Furnace

80% AFUE – Two-Stage, Variable Speed

STANDARD FEATURES:

Designed for all-position installation: upflow, downflow and horizontal

35" high for ease of installation

Heavy-duty aluminized tubular heat exchanger is tested to double the standard requirements for life cycle testing with no signs of wear or corrosion

Industry proven, integrated hot surface ignition control with igniter and flame sensor positioned in coolest part of flame for ultimate performance and longevity

Aluminized-steel, multi-port inshot burners provide smooth ignition coupled with superior flame stability, low noise and reliability

Two speed draft inducer

California low NO_x approved

Multi-port in-shot burners

Insulated cabinet to increase efficiency and reduce sound levels

Two-stage gas valve

WARRANTY:

20-year limited warranty on heat exchanger

5-year limited warranty on all other parts



| MODEL | INPUT (BTUH) | EFFICIENCY AFUE | COOLING CAPACITY | UNIT DIMENSIONS H x W x D (Inches) | WEIGHT (lbs.) | |
|-------------|--------------|-----------------|------------------|------------------------------------|---------------|-----------|
| | | | | | SHIPPING | OPERATING |
| FV80A070-4A | 68,000 | 80% | 1.5 - 3.5 | 35 x 17 1/2 x 28 1/4 | 132 | 119 |
| FV80A085-4A | 85,000 | 80% | 2 - 4 | 35 x 20 1/2 x 28 1/4 | 146 | 132 |
| FV80A115-5A | 115,000 | 80% | 2.5- 5 | 35 x 22 x 28 1/4 | 163 | 147 |

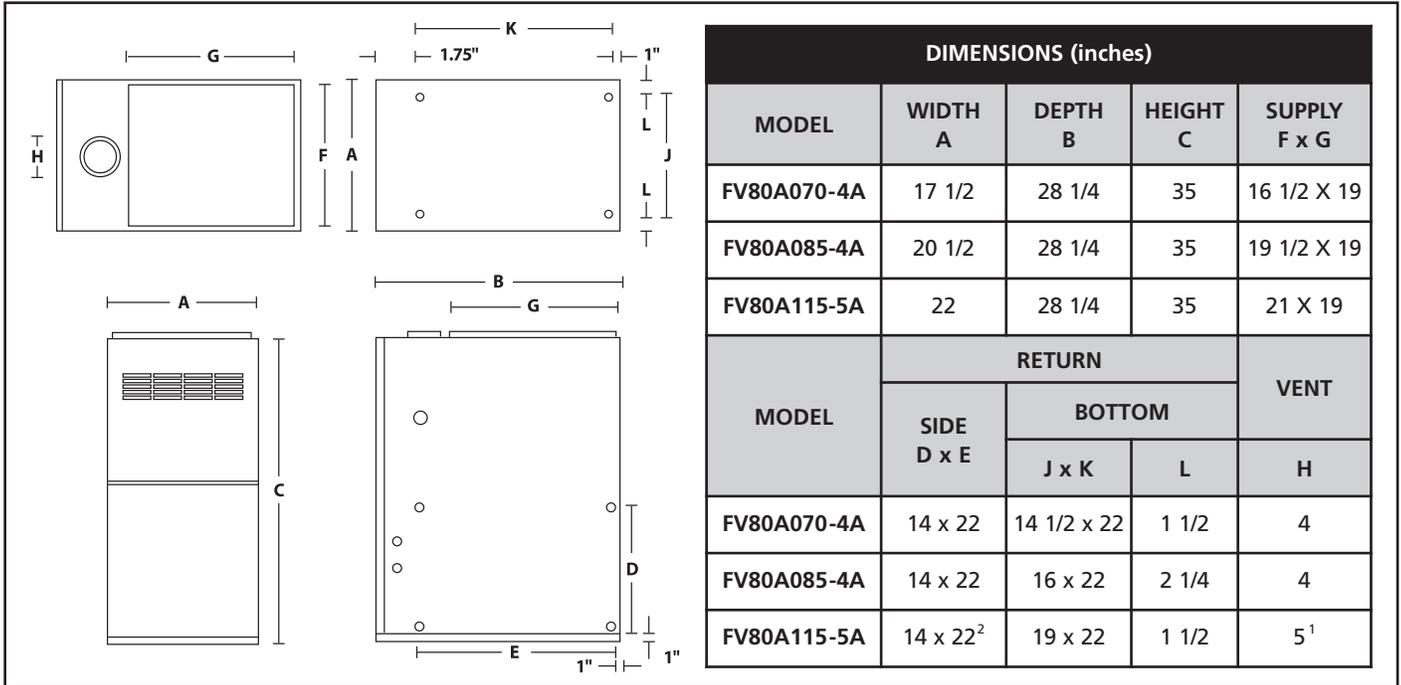
Product Specifications

| PRODUCT SPECIFICATIONS | | | | |
|---|------|--------------|--------------|--------------|
| Model Number | | FV80A070-4A | FV80A085-4A | FV80A115-5A |
| PERFORMANCE RATINGS | | | | |
| Input - High Fire (Btu) - Second Stage ¹ | | 68,000 | 85,000 | 115,000 |
| Output - High Fire (Btu) ¹ | | 54,400 | 68,000 | 92,000 |
| Input - Low fire (Btu) - First Stage ¹ | | 47,600 | 59,500 | 80,500 |
| Output - Low fire (Btu) ¹ | | 38,080 | 47,600 | 64,400 |
| AFUE | | 80% | 80% | 80% |
| Temp. Rise | High | 30-60 | 30-60 | 30-60 |
| | Low | 25-45 | 30-50 | 25-45 |
| Position | | All position | All position | All position |
| Gas Connection | | 1/2" NPT | 1/2" NPT | 1/2" NPT |
| NO _x (Ng/l) | | <40 | <40 | <40 |
| ELECTRICAL DATA | | | | |
| Volts, Phase, Herz | | 115 / 60 / 1 | 115 / 60 / 1 | 115 / 60 / 1 |
| Min. / Max. Voltage | | 102 / 132 | 102 / 132 | 102 / 132 |
| Transformer (V.A.) | | 40 | 40 | 40 |
| Min. Time Delay Breaker or Fuse ² | | 15 AMP | 15 AMP | 15 AMP |
| HEAT EXCHANGER | | | | |
| Number of Tubes | | 4 | 5 | 7 |
| Approximate BTUs / Tube | | 17,000 | 17,000 | 17,000 |
| Tube Diameter (inches) | | 1.5 | 1.5 | 1.5 |
| Number of Passes | | 4 | 4 | 4 |
| BLOWER PERFORMANCE DATA | | | | |
| A/C Cooling Max. (CFM) @.5 static | | 1,350 | 1,550 | 1,750 |
| Blower Wheel | | 10 x 8 | 10 x 10 | 11 x 10 |
| A/C Cooling Tons @ .5 esp | | 1.5 - 3.5 | 2 - 4 | 2.5 - 5 |
| Motor Speed | | Variable | Variable | Variable |
| CABINET DIMENSIONS | | | | |
| Cabinet Width (inches) | | 17 1/2 | 20 1/2 | 22 |
| Cabinet Height (inches) | | 35 | 35 | 35 |
| Cabinet Depth (inches) | | 28 1/4 | 28 1/4 | 28 1/4 |
| Volume (Cubic Feet) | | 10.28 | 12.05 | 12.93 |
| PACKAGING DIMENSIONS | | | | |
| Package Width (inches) | | 21 1/4 | 24 1/4 | 25 3/4 |
| Package Height (inches) | | 37 3/4 | 37 3/4 | 37 3/4 |
| Package Depth (inches) | | 31 3/4 | 31 3/4 | 31 3/4 |
| Loadability 40' High Cube Container | | 116 | 104 | 100 |
| Packaged Weight (lbs) | | 132 | 146 | 163 |

NOTES:

1. Values based on Natural Gas usage
2. Important: It is required to size fuses and wires properly and make electrical connections in accordance with the National Electrical Code and/or all existing local codes

Product Specifications



| CLEARANCE TO COMBUSTIBLES (inches) | | | |
|------------------------------------|--------|----------|------------|
| SURFACE | UPFLOW | DOWNFLOW | HORIZONTAL |
| Top | 1 | 0 | 2 |
| Front | 3 1/2 | 3 1/2 | 3 1/2 |
| Flue C-Vent | 6 | 6 | 6 |
| Flue B-Vent | 1 | 1 | 1 |
| Back | 0 | 0 | 0 |
| Side or End | 0 | 0 | 1 |
| Floor | 0 | 0 | 0 |
| Supply Air Plenum | 1 | 1 | Top |
| | | | End |
| | | | 3 |
| Return Air Plenum | 0 | 0 | 0 |

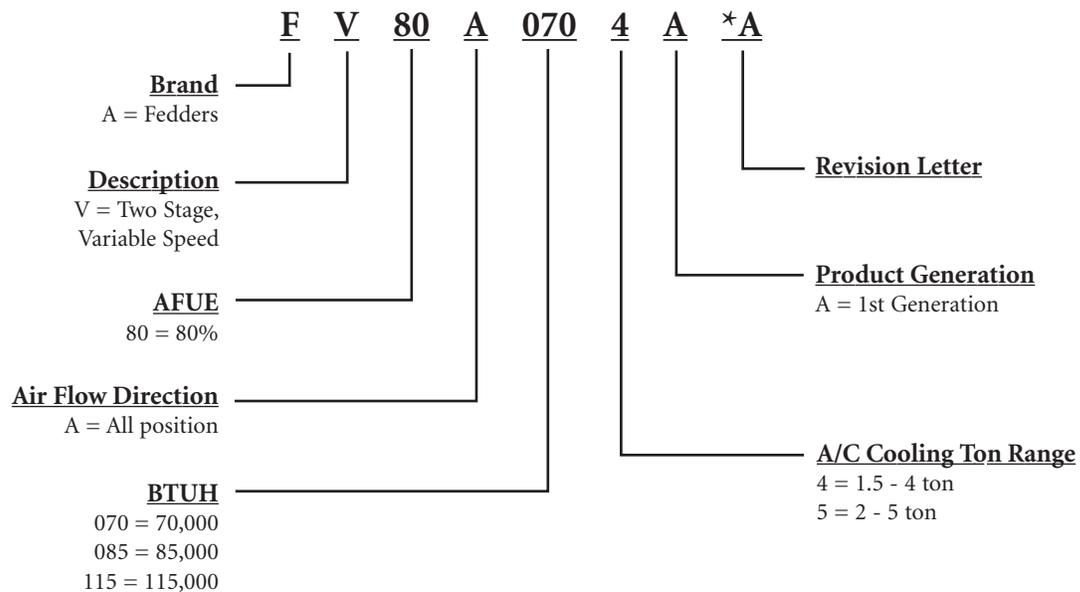
| FIELD-INSTALLED ACCESSORIES | | |
|-----------------------------|----------------------------------|-----------------|
| PART NUMBER | DESCRIPTION | MODEL USED WITH |
| 30482 | Natural to LP gas conversion kit | All |
| 30551 | LP to Natural gas conversion kit | All |
| 30476 | Combustible Floor Sub-base | Downflow Only |
| 30553 | High Altitude Kit - US | All |
| 30552 | High Altitude Kit - Canada | All |

NOTE: Combustible floor kit required for the downflow configuration

1. Vent and combustion air diameters may vary depending upon vent length. Refer to the latest editions of the National Fuel Gas Code. Field supplied 5" to 4" reducer kit required for model 115-5.
2. Two return air openings required.

Product Specifications

MODEL NOMENCLATURE:



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FD-037-0607-a