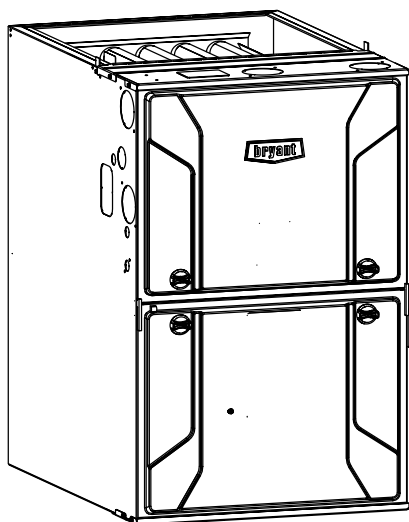


935SB

**Legacy™ Line 95, Single-Stage, Upflow/Horizontal,
Ultra Low NOx Emissions, Multi 18-Speed ECM,
Condensing Gas Furnace, up to 95% AFUE**



Product Data



A190294

Representative drawing only. Some product models may vary.



WARNING

CARBON MONOXIDE POISONING AND FIRE HAZARD

Failure to follow this warning could result in personal injury, death, and/or property damage.

This furnace is not designed for use in recreation vehicles or outdoors. This furnace is not designed for use in manufactured (Mobile) homes.

Failure to follow this warning could result in personal injury, death, and/or property damage.

The 935SB Legacy™ Line 95 Ultra-Low NOx gas furnace delivers consumer comfort in a unit that meets California's South Coast Air Quality Management District (SCAQMD) and San Joaquin Valley Air pollution Control District (SJVAPCD) NOx emissions limit of 14ng/J. Offering the performance and benefits of our Legacy Line gas furnaces, this furnace releases 65% less nitrogen oxides (NOx) than previous models. NOx contributes to the formation of smog and acid rain and the deterioration of water quality. Lower NOx emissions mean lower production of particulate matter and cleaner air for the environment. Energy efficiency is at the heart of this furnace with up to 95.0% AFUE gas efficiency and the electrically-efficient fixed-speeds, constant torque (MCT) ECM blower motor. Improved serviceability with the 3 digit status display and NFC enabled board allowing setup via the service tech app. This gas furnace also features Upflow/Horizontal installation flexibility, and is available in four model sizes. All sizes can be vented for direct vent/two-pipe, ventilated combustion air, or single-pipe applications.

PERFORMANCE

- Ultra Low NOx - meets the nitrogen oxides (NOx) emission limit of 14 nanograms/joule for the South Coast Air Quality Management Districts and San Joaquin Valley Air Pollution Control District in California
- Multi 18-speed, constant torque (MCT) ECM blower motor for electrically efficient operation all year long in heating, cooling and continuous fan operation
- Single-stage gas valve with pre-mix burner
- Two-stage cooling capability
- Pilot free, hot surface ignition
- Variable-speed inducer motor for consistent operation
- High temperature limit control designed to prevent overheating
- Adjustable blower speed for heating and cooling
- Enhanced diagnostics with easy to read 3 digit display for faults and status
- Stainless-steel primary heat exchanger
- Stainless-steel condensing secondary heat exchanger
- Cabinet air leakage less than 2.0% at 1.0 in. w.c. and cabinet air leakage less than 1.4% at 0.5 in. w.c. when tested in accordance with ASHRAE Standard 193

INSTALLATION FLEXIBILITY

- Upflow/Horizontal design for upflow, horizontal right or horizontal left installation, with rotating vent elbow for exhaust venting flexibility
- On-board NFC antenna makes setup a tap away when using the Bryant service technician app
- Factory-configured ready for upflow applications.
- Features a 6-3/8" condensate trap (7-3/8" service clearance recommended in horizontal applications).
- Two-pipe venting, single-pipe venting or ventilated combustion air.

APPLICATIONS

- Factory-configured for Natural Gas; not convertible to Liquid Propane.
- Not approved for downflow installation
- Approved for installations up to 5,400 ft.

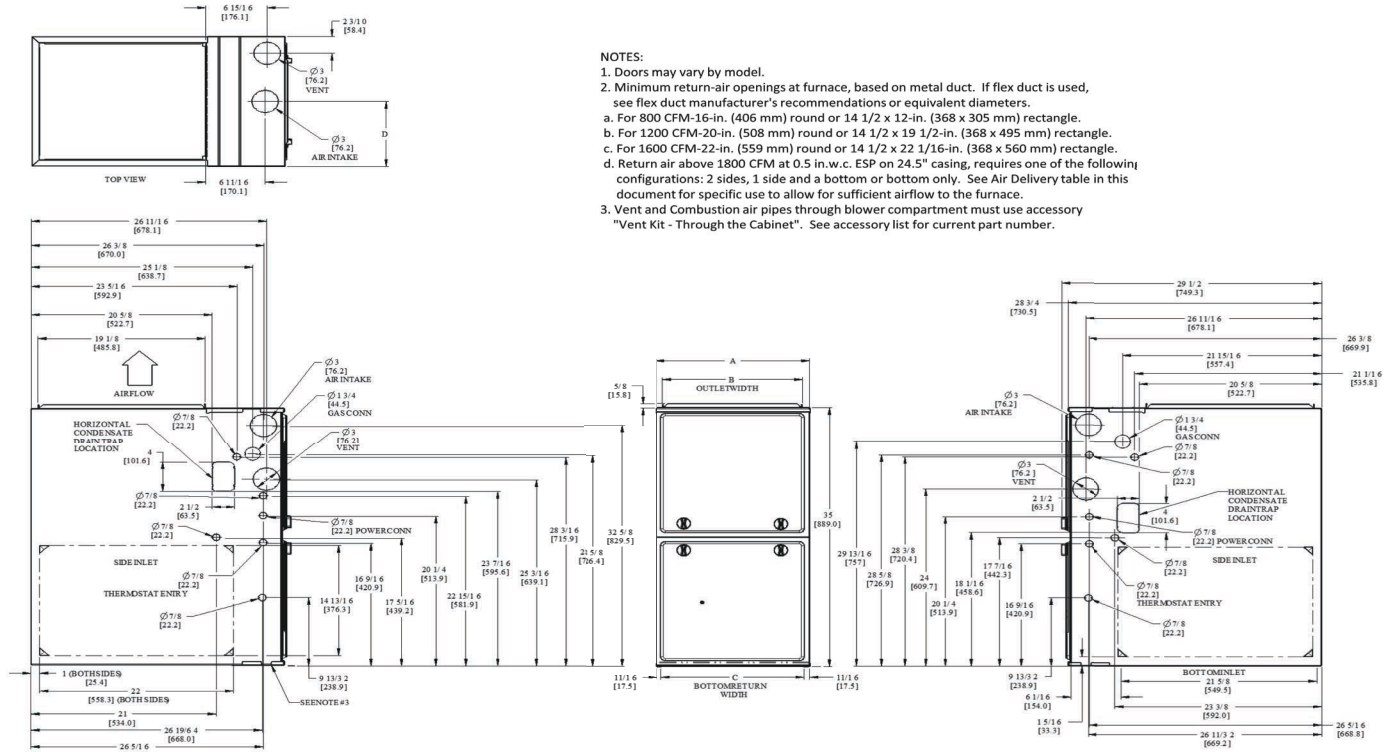


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UNIT PERFORMANCE UNIT

| Model | Input (BTUh) | Efficiency AFUE | Cooling Capacity CFM range | Dimensions H x W x D In (mm) | Shipping Wt. Lbs (Kg) |
|----------|-----------------|--------------------|-------------------------------|--|--------------------------|
| 36040M17 | 40,000 | 95% | 235-1255 | 35 x 17-1/2 x 29-1/2 (889 x 445 x 750) | 136 (62) |
| 48060M17 | 60,000 | 95% | 315-1675 | 35 x 17-1/2 x 29-1/2 (889 x 445 x 750) | 141 (64) |
| 60080M21 | 80,000 | 95% | 305-2080 | 35 x 21 x 29-1/2 (889 x 533 x 750) | 161 (73) |
| 60100M21 | 100,000 | 95% | 290-1985 | 35 x 21 x 29-1/2 (889 x 533 x 750) | 167 (76) |

DIMENSIONAL DATA



NOTE: ALL DIMENSIONS IN INCH (MM)

8090634 REV. -

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Dimensions

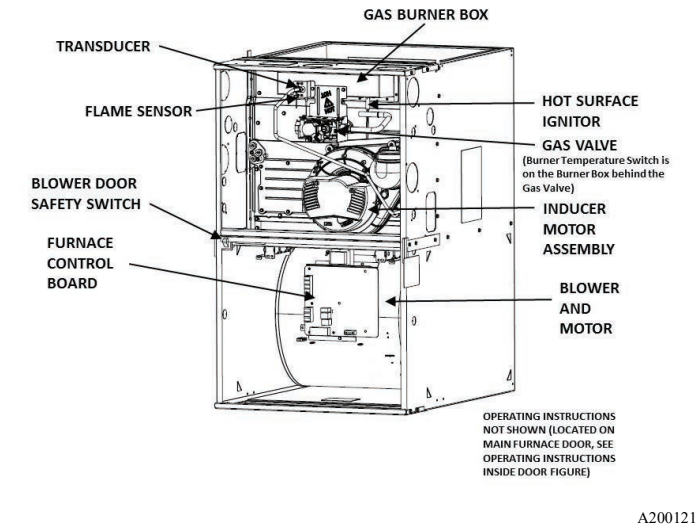
| FURNACE SIZE | A | B | C | D | SHIP WT. LB (KG) |
|--------------|---------------|--------------|--------------------|--------------|---------------------|
| | CABINET WIDTH | OUTLET WIDTH | BOTTOM INLET WIDTH | AIR INTAKE | |
| 36040M17 | 17-1/2 (445) | 15-7/8 (403) | 16 (406) | 8-3/4 (222) | 136 (62) |
| 48060M17 | 17-1/2 (445) | 15-7/8 (403) | 16 (406) | 8-3/4 (222) | 141 (64) |
| 60080M21 | 21 (533) | 19-3/8 (492) | 19-1/2 (495) | 10-1/2 (267) | 161 (73) |
| 60100M21 | 21 (533) | 19-3/8 (492) | 19-1/2 (495) | 10-1/2 (267) | 167 (76) |
| 66100M21 | 21 (533) | 19-3/8 (492) | 19-1/2 (495) | 10-1/2 (267) | 170 (77) |

MODEL NUMBER NOMENCLATURE

| 1 | 2 | 3 | 4 | 5 | 6, 7 | 8 - 10 | 11 | 12 - 13 | 14 | 15 | 16 |
|---------------------|--|---|---|-------------------------|--|---|---|--|--------------------------------|---------|--------------------|
| Heat Exchanger | Tier/NOx | AFUE/NOx | Heating Stages | Major Series | Cooling Capacity (CFM) | Heat Input | Motor Type | Width | Voltage (1-phase) | Un-used | Minor Series |
| 9 | 8 | 7 | M | B | 42 | 060 | C | 17 | A | - | A |
| 8 = 80% 9 = 90+% | 0 = Base 1 = Legacy Line 2 = Preferred 3 = Ultra Low NOx 8 = Evolution | 0 = 80% 1 = 80% Low NOx (Not Ultra Low NOx) 2 = 92% 5 = 95% 6 = 96% 7 = 97% 8 = 98% | M = Modulating T = Two Stage S = Single Stage C = Single Stage Communicating | A B C D --- | 24 = 800 CFM 30 = 1000 CFM 36 = 1200 CFM 42 = 1400 CFM 48 = 1600 CFM 60 = 2000 CFM 66 = 2200 CFM | 026 = 26,000 BTU/h 040 = 40,000 BTU/h 060 = 60,000 BTU/h --- | C = Constant Airflow Variable-Speed (VCA) ECM V = Variable-Speed (VCT) PWM M = Multi 18-Speed Constant Torque (MCT) ECM | 14 = 14.2" 17 = 17.5" 21 = 21.0" 24 = 24.5" | A = 110V/60Hz B = 230V/50Hz | - | A B C --- |

A220582

FURNACE COMPONENTS



MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS

| POSITION | CLEARANCE |
|--|-----------|
| REAR | 1 in. |
| FRONT (Combustion air openings in furnace and in structure) | 1 in. |
| Required for service | 24 in. * |
| All Sides of Supply Plenum | 1 in. |
| Sides | 1 in. † |
| Vent | 0 |
| Top of Furnace | 1 in. |

*. Consult local building codes.
†. Additional clearance is required for condensate trap installation.

The furnace should be sized to provide 100 percent of the design heating load requirement plus any margin that occurs because of furnace model size capacity increments. None of the furnace model sizes can be used if the heating load is less than half of the furnaces model's output capacity. Use Air Conditioning Contractors of America (Manual J and S); American Society of Heating, Refrigerating, and Air-Conditioning Engineers; or other approved engineering method to calculate heating load estimates and select the furnace. Excessive oversizing of the furnace may cause the furnace and/or vent to fail prematurely, customer discomfort and/or vent freezing.

Failure to follow these guidelines is considered faulty installation and/or misapplication of the furnace; and resulting failure, damage, or repairs may impact warranty coverage.

SPECIFICATIONS

| FURNACE SIZE | | 36040M17 | 42060M17 | 60080M21 | 60100M21 | 66100M21 |
|---|-----------|---|-------------------|--------------------|--------------------|--------------------|
| HEATING AND CAPACITY AND EFFICIENCY | | | | | | |
| Input BTUh* | | 40,000 | 60,000 | 80,000 | 100,000 | 100,000 |
| Output Capacity (BTUh)† | | 39,000 | 58,000 | 78,000 | 96,000 | 97,000 |
| Certified Temperature Rise Range - °F (°C) | | 30-60 (17-33) | 30-60 (17-33) | 30-60 (17-33) | 35-65 (19-36) | 35-65 (19-36) |
| AFUE | | 95% | | | | |
| AIRFLOW CAPACITY AND BLOWER DATA | | | | | | |
| Rated Certified External Static Pressure | Heating | 0.10 | 0.12 | 0.15 | 0.20 | 0.20 |
| | Cooling | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 |
| Airflow CFM @ Rated ESP (CFM)‡ | Heating | 800 | 1195 | 1655 | 1825 | 1800 |
| | Cooling | 235-1255 | 315-1675 | 305-2080 | 290-1985 | 430-2255 |
| Direct Drive Motor HP | | 1/2 | 3/4 | 1 | 1 | 1 |
| Motor Full Load Amps | | 6.7 | 8.8 | 11.7 | 11.7 | 11.0 |
| Heating Blower Control (Htg OFF-Delay) | | Adjustable: 90, 120 (factory-set), 150, 180 seconds | | | | |
| Cooling Blower Control (Clg OFF-Delay) | | Adjustable: 90, (factory-set), 5, 30 seconds | | | | |
| Blower Wheel Diameter x Width - In. (mm) | | 11x8 (279x203) | 11x8 (279x203) | 11x10 (279x254) | 11x10 (279x254) | 11x10 (279x254) |
| Air Filtration System | | Field Supplied Filter | | | | |
| Filter used for Certified Watt Data | | 325531-40* | | | | |
| ELECTRICAL DATA | | | | | | |
| Unit Volts-Hertz-Phase | | 115-60-1 | | | | |
| Operating Voltage Range | Min-Max | 104-127 | | | | |
| Maximum Unit Amps | | 8.8 | 11.5 | 13.8 | 13.8 | 13.8 |
| Unit Ampacity | | 11.5 | 14.8 | 17.7 | 17.7 | 17.7 |
| Maximum Wire Length (Measure 1 way in Ft/M) | | 32/9.8 | 25/7.6 | 32/9.9 | 32/9.9 | 32/9.9 |
| Minimum Wire Size | AWG | 14 | 14 | 12 | 12 | 12 |
| Max. Fuse/Ckt Bkr Size (Time-Delay Type Recommended) | Amps | 15 | 15 | 20 | 20 | 20 |
| Transformer Capacity (24 VAC output) | | 40VA | | | | |
| External Control Power Available | Heating | 12VA | | | | |
| | Cooling | 35VA | | | | |
| GAS CONTROLS | | | | | | |
| Burners | | 2 | 3 | 4 | 5 | 5 |
| Gas Connection Size | | 1/2 in. NPT | | | | |
| Gas Valve (Redundant) | Mfr | White Rodgers™ | | | | |
| Min. inlet pressure | (in.w.c.) | 4.5 (Natural Gas) | | | | |
| Ignition Device | | Silicon Nitride | | | | |
| Factory installed orifice | | Size 3.35 mm | 20 | 10 | 6 | 6 |
| CONNECTIONS | | | | | | |
| Communication System | | None | | | | |
| Thermostat Connections | | Y1, G, C, W, Y/Y2, R | | | | |
| Accessory Connections | | EAC-1 (115 VAC); HUM (24 VAC); 1-STG AC or 2-STG (via Y/Y2, Y1) | | | | |

*. Gas input ratings are certified for elevations to 2000 ft. (610 M). In USA, For elevations above 2000 ft (610 M), reduce ratings 4 percent for each 1000 ft (305 M) above sea level. Refer to National Fuel Gas Code NFPA 54/ANSI Z223.1 Table F.4 or furnace installation instructions.

†. Capacity in accordance with U.S. Government DOE test procedures.

‡. Airflow shown is for bottom only return-air supply for the as-shipped speed tap. For air delivery above 1800 CFM, see Air Delivery table for other options. A filter is required for each return-air supply. An airflow reduction of up to 7 percent may occur when using the factory-specified 4-5/16-in. (110 mm) wide, high efficiency media filter.

AIR DELIVERY - CFM**Air Delivery - CFM (with filter)**

| Unit Size | Airflow Setting | Default Setting | External Static Pressure (in.w.c.) | | | | | | | | | |
|-----------|-----------------|-----------------|------------------------------------|------|------|------|------|------|------|------|------|------|
| | | | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1 |
| 36040M17 | 1 | Const. Fan | 505 | 435 | 360 | 300 | 235 | 170 | - | - | - | - |
| | 2 | | 560 | 495 | 420 | 360 | 305 | 250 | 185 | 120 | - | - |
| | 3 | | 610 | 550 | 480 | 415 | 365 | 310 | 255 | 200 | 135 | - |
| | 4 | | 640 | 580 | 515 | 450 | 400 | 350 | 300 | 245 | 190 | 135 |
| | 5 | | 695 | 640 | 590 | 525 | 465 | 420 | 375 | 325 | 275 | 225 |
| | 6 | | 750 | 700 | 650 | 590 | 535 | 485 | 440 | 400 | 355 | 305 |
| | 7 | Heating | 800 | 750 | 705 | 655 | 595 | 545 | 500 | 460 | 420 | 375 |
| | 8 | | 850 | 805 | 760 | 715 | 660 | 605 | 560 | 515 | 475 | 440 |
| | 9 | | 895 | 850 | 805 | 765 | 715 | 660 | 615 | 570 | 530 | 495 |
| | 10 | | 940 | 895 | 855 | 810 | 770 | 720 | 670 | 625 | 585 | 550 |
| | 11 | | 995 | 950 | 910 | 870 | 830 | 785 | 735 | 690 | 650 | 610 |
| | 12 | | 1055 | 1015 | 975 | 935 | 900 | 860 | 820 | 770 | 725 | 685 |
| | 13 | | 1110 | 1070 | 1035 | 995 | 960 | 925 | 890 | 845 | 800 | 755 |
| | 14 | | 1160 | 1125 | 1085 | 1050 | 1020 | 985 | 950 | 915 | 870 | 825 |
| | 15 | | 1220 | 1180 | 1145 | 1115 | 1080 | 1045 | 1015 | 980 | 945 | 900 |
| | 16 | | 1275 | 1240 | 1205 | 1175 | 1140 | 1105 | 1075 | 1045 | 1015 | 975 |
| | 17 | | 1330 | 1295 | 1260 | 1230 | 1200 | 1165 | 1135 | 1105 | 1075 | 1045 |
| | 18 | Cooling | 1385 | 1355 | 1320 | 1290 | 1255 | 1225 | 1200 | 1170 | 1130 | 1085 |
| 48060M17 | 1 | Const. Fan | 595 | 525 | 455 | 385 | 315 | 255 | 190 | 120 | - | - |
| | 2 | | 680 | 615 | 550 | 490 | 425 | 360 | 300 | 245 | 180 | - |
| | 3 | | 725 | 670 | 610 | 545 | 485 | 425 | 365 | 310 | 260 | 200 |
| | 4 | | 795 | 740 | 685 | 630 | 575 | 515 | 460 | 405 | 355 | 305 |
| | 5 | | 860 | 805 | 755 | 700 | 650 | 595 | 545 | 490 | 440 | 390 |
| | 6 | | 940 | 890 | 840 | 795 | 745 | 695 | 645 | 595 | 545 | 495 |
| | 7 | | 1010 | 965 | 920 | 875 | 830 | 785 | 740 | 690 | 645 | 600 |
| | 8 | | 1080 | 1035 | 990 | 950 | 905 | 865 | 825 | 780 | 735 | 690 |
| | 9 | | 1160 | 1120 | 1075 | 1035 | 995 | 955 | 920 | 880 | 840 | 795 |
| | 10 | Heating | 1205 | 1165 | 1125 | 1090 | 1050 | 1010 | 970 | 935 | 895 | 855 |
| | 11 | | 1235 | 1195 | 1160 | 1120 | 1085 | 1045 | 1010 | 970 | 935 | 895 |
| | 12 | | 1310 | 1270 | 1235 | 1195 | 1160 | 1125 | 1090 | 1055 | 1020 | 985 |
| | 13 | | 1390 | 1355 | 1320 | 1285 | 1250 | 1215 | 1185 | 1150 | 1115 | 1085 |
| | 14 | | 1465 | 1430 | 1400 | 1365 | 1335 | 1305 | 1270 | 1240 | 1210 | 1180 |
| | 15 | | 1540 | 1505 | 1475 | 1445 | 1415 | 1385 | 1355 | 1330 | 1300 | 1270 |
| | 16 | | 1615 | 1580 | 1550 | 1525 | 1495 | 1465 | 1440 | 1410 | 1385 | 1360 |
| | 17 | | 1685 | 1655 | 1625 | 1600 | 1575 | 1550 | 1525 | 1495 | 1475 | 1450 |
| | 18 | Cooling | 1820 | 1785 | 1745 | 1710 | 1675 | 1640 | 1600 | 1565 | 1525 | 1485 |
| 60080M21 | 1 | Const. Fan | 655 | 565 | 480 | 395 | 305 | 220 | 150 | - | - | - |
| | 2 | | 760 | 675 | 600 | 525 | 450 | 370 | 290 | 220 | 155 | - |
| | 3 | | 820 | 745 | 670 | 600 | 525 | 460 | 385 | 310 | 245 | 180 |
| | 4 | | 910 | 840 | 770 | 705 | 640 | 575 | 510 | 440 | 370 | 305 |
| | 5 | | 995 | 930 | 865 | 800 | 735 | 675 | 615 | 555 | 485 | 420 |
| | 6 | | 1070 | 1010 | 950 | 885 | 825 | 770 | 705 | 650 | 595 | 530 |
| | 7 | | 1160 | 1105 | 1050 | 990 | 935 | 875 | 825 | 770 | 715 | 665 |
| | 8 | | 1250 | 1195 | 1145 | 1090 | 1035 | 980 | 930 | 880 | 825 | 775 |
| | 9 | | 1355 | 1300 | 1255 | 1205 | 1155 | 1105 | 1050 | 1000 | 950 | 905 |
| | 10 | | 1430 | 1380 | 1335 | 1285 | 1240 | 1195 | 1140 | 1095 | 1045 | 1000 |
| | 11 | | 1525 | 1475 | 1430 | 1385 | 1340 | 1295 | 1250 | 1200 | 1155 | 1110 |
| | 12 | Heating | 1680 | 1635 | 1595 | 1550 | 1510 | 1470 | 1425 | 1385 | 1340 | 1295 |
| | 13 | | 1725 | 1680 | 1635 | 1600 | 1560 | 1520 | 1480 | 1440 | 1395 | 1350 |
| | 14 | | 1815 | 1775 | 1735 | 1695 | 1655 | 1620 | 1580 | 1540 | 1500 | 1460 |
| | 15 | | 1900 | 1865 | 1825 | 1785 | 1750 | 1710 | 1675 | 1635 | 1600 | 1565 |
| | 16 | | 1995 | 1955 | 1920 | 1885 | 1850 | 1815 | 1780 | 1745 | 1710 | 1670 |
| | 17 | | 2100 | 2065 | 2030 | 1995 | 1960 | 1925 | 1890 | 1855 | 1825 | 1790 |
| | 18 | Cooling | 2265 | 2230 | 2180 | 2130 | 2080 | 2030 | 1975 | 1925 | 1875 | 1825 |

Air Delivery - CFM (with filter) (Continued)

| Unit Size | Airflow Setting | Default Setting | External Static Pressure (in.w.c.) | | | | | | | | | |
|-----------|-----------------|-----------------|------------------------------------|------|------|------|------|------|------|------|------|------|
| | | | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1 |
| 60100M21 | 1 | Const. Fan | 655 | 560 | 465 | 375 | 290 | 205 | 125 | - | - | - |
| | 2 | | 725 | 640 | 550 | 465 | 390 | 310 | 230 | 155 | - | - |
| | 3 | | 805 | 725 | 640 | 560 | 480 | 410 | 340 | 265 | 195 | 135 |
| | 4 | | 885 | 810 | 735 | 660 | 585 | 510 | 445 | 380 | 310 | 245 |
| | 5 | | 965 | 900 | 825 | 755 | 685 | 620 | 550 | 490 | 425 | 360 |
| | 6 | | 1055 | 990 | 925 | 860 | 790 | 730 | 660 | 600 | 535 | 480 |
| | 7 | | 1145 | 1080 | 1020 | 960 | 895 | 835 | 775 | 715 | 650 | 595 |
| | 8 | | 1235 | 1175 | 1120 | 1060 | 1000 | 945 | 885 | 830 | 770 | 710 |
| | 9 | | 1325 | 1270 | 1215 | 1160 | 1105 | 1050 | 995 | 940 | 890 | 835 |
| | 10 | | 1415 | 1360 | 1310 | 1260 | 1210 | 1155 | 1100 | 1050 | 1000 | 950 |
| | 11 | | 1505 | 1455 | 1405 | 1360 | 1310 | 1265 | 1215 | 1165 | 1115 | 1065 |
| | 12 | | 1600 | 1550 | 1505 | 1460 | 1415 | 1370 | 1325 | 1275 | 1225 | 1180 |
| | 13 | | 1690 | 1645 | 1600 | 1560 | 1515 | 1470 | 1425 | 1380 | 1335 | 1285 |
| | 14 | | 1780 | 1735 | 1695 | 1650 | 1610 | 1570 | 1530 | 1485 | 1445 | 1400 |
| | 15 | Heating | 1865 | 1825 | 1785 | 1740 | 1700 | 1660 | 1620 | 1585 | 1540 | 1500 |
| | 16 | | 1970 | 1925 | 1885 | 1845 | 1805 | 1770 | 1730 | 1690 | 1655 | 1615 |
| | 17 | | 2055 | 2015 | 1980 | 1940 | 1900 | 1865 | 1825 | 1790 | 1755 | 1715 |
| | 18 | Cooling | 2135 | 2100 | 2060 | 2025 | 1985 | 1950 | 1915 | 1880 | 1845 | 1810 |
| 66100M21 | 1 | Const. Fan | 835 | 725 | 625 | 535 | 430 | 330 | 245 | 120 | - | - |
| | 2 | | 935 | 845 | 745 | 660 | 570 | 475 | 385 | 300 | 195 | - |
| | 3 | | 1000 | 920 | 815 | 735 | 655 | 560 | 470 | 385 | 305 | 210 |
| | 4 | | 1115 | 1040 | 955 | 870 | 795 | 720 | 640 | 550 | 465 | 395 |
| | 5 | | 1195 | 1125 | 1050 | 960 | 890 | 815 | 745 | 670 | 590 | 510 |
| | 6 | | 1295 | 1230 | 1165 | 1080 | 1010 | 940 | 875 | 805 | 730 | 655 |
| | 7 | | 1395 | 1335 | 1275 | 1205 | 1125 | 1060 | 995 | 930 | 870 | 800 |
| | 8 | | 1500 | 1445 | 1390 | 1330 | 1265 | 1190 | 1125 | 1070 | 1010 | 955 |
| | 9 | | 1585 | 1530 | 1475 | 1420 | 1365 | 1290 | 1225 | 1170 | 1110 | 1055 |
| | 10 | | 1680 | 1630 | 1580 | 1530 | 1475 | 1415 | 1345 | 1290 | 1235 | 1180 |
| | 11 | | 1770 | 1725 | 1675 | 1630 | 1580 | 1525 | 1470 | 1400 | 1350 | 1295 |
| | 12 | Heating | 1845 | 1800 | 1755 | 1705 | 1660 | 1605 | 1555 | 1495 | 1440 | 1390 |
| | 13 | | 1945 | 1905 | 1860 | 1815 | 1770 | 1725 | 1675 | 1630 | 1575 | 1515 |
| | 14 | | 1980 | 1940 | 1900 | 1855 | 1810 | 1765 | 1720 | 1670 | 1620 | 1565 |
| | 15 | | 2070 | 2030 | 1990 | 1950 | 1910 | 1870 | 1825 | 1780 | 1730 | 1685 |
| | 16 | Cooling | 2190 | 2150 | 2110 | 2075 | 2035 | 1995 | 1955 | 1915 | 1870 | 1830 |
| | 17 | | 2300 | 2260 | 2225 | 2190 | 2155 | 2115 | 2080 | 2045 | 2010 | 1970 |
| | 18 | | 2430 | 2385 | 2345 | 2300 | 2255 | 2205 | 2160 | 2115 | 2060 | 2010 |

NOTE:

1. A filter is required for each return-air inlet. Airflow performance included 3/4-in. (19 mm) washable filter media such as contained in a factory - authorized accessory filter rack. See accessory list. To determine airflow performance without this filter, assume an additional 0.1 in. w.c. available external static pressure.
2. **Adjust the blower airflow setting as necessary for the proper air temperature rise for each installation.**
3. Airflows over 1800 CFM require bottom return, two-side return, or bottom and side return. A minimum filter size of 20" x 25" (508 x 635 mm) is required.
4. For upflow applications, air entering from one side into both the side of the furnace and a return air base counts as a side and bottom return
5. The -- entry indicates unstable operating conditions

Table 1 – Airflow Settings

| Unit Size | Default Airflow Settings* | | Designated Airflow Settings | |
|-----------|---------------------------|---------|-----------------------------|------------|
| | Heating | Cooling | Heating | Const. Fan |
| 36040M17 | 7 | 18 | (4-11) | (1-7) |
| 48060M17 | 10 | 18 | (6-13) | (1-7) |
| 60080M21 | 12 | 18 | (8-12) | (1-1) |
| 60100M21 | 15 | 18 | (10-15) | (1-2) |
| 66100M21 | 12 | 16 | (8-13) | (1-7) |

*. Setting #1 is the default setting for Constant Fan



FURNACE CONTROL BOARD



INSTALLATION CONSIDERATIONS

Refer to Installation Instructions for complete installation requirements.

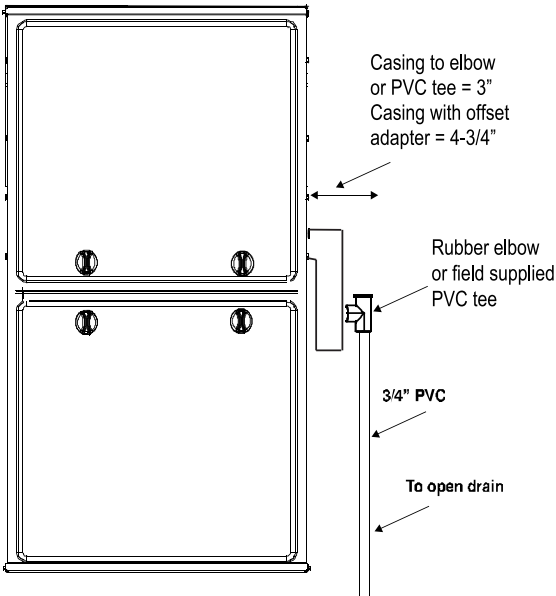
Evaporator Coil Spacer or Shield Requirements

| Type of Coil | Install Flush to Furnace | Install with 8-in. Spacer | Install with Metal Shield |
|---|--------------------------|---|---------------------------|
| Furnace Manufacturer's Shielded (Examples: N-Coil, V-Coil, Sloped Coil) | Allowed | Not Required | Not Required |
| Furnace Manufacturer's Unshielded (Example: A-Coil) | Not Allowed | Allowed (Except 100k BTU size in Horiz Right - MUST use shield) | Allowed (See Note 2) |
| 3rd Party Coil - Factory Shielded (See Note 1) | Allowed | Not Required | Not Required |
| 3rd Party Coil - Unshielded | Not Allowed | Allowed (Except 100k BTU size in Horiz Right - MUST use shield) | Allowed (See Note 3) |

NOTE:

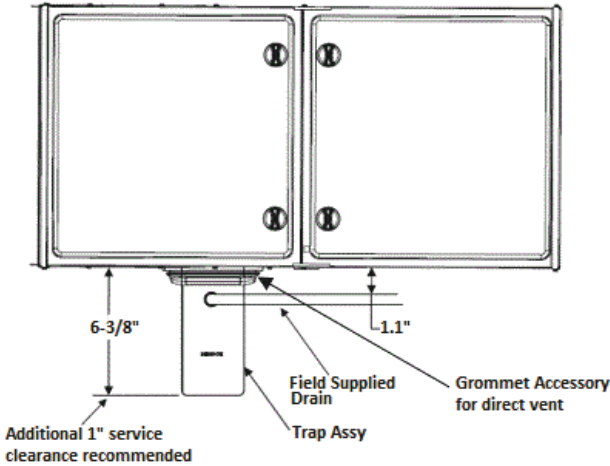
1. 3rd Party Coils that are factory-supplied with a metallic shield over the plastic composite drain pan must completely shield all plastic composite materials from direct exposure to any part of the heat exchanger. Consult with 3rd Party Manufacturer to ensure coil is properly shielded. Coils that are only partially shielded should be treated as un-shielded and require a spacer.
2. Field-fabricated metallic shield must completely shield all plastic composite materials from direct exposure to any part of the heat exchanger. Coils that are only partially shielded should be treated as un-shielded and require a spacer.
3. For 3rd party unshielded coils, consult manufacturer for design of a field-fabricated shield that completely shields all plastic composite materials from direct exposure to any part of the heat exchanger.

6-3/8" Condensate Trap (7-3/8" recommended) Clearances



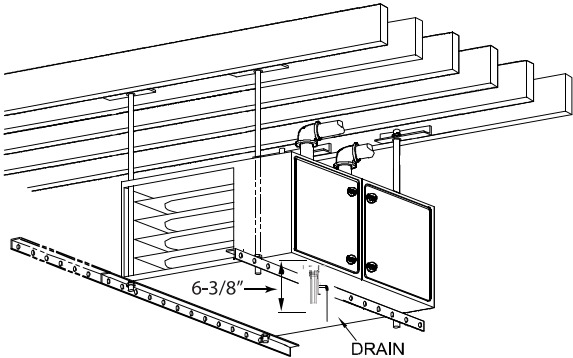
Trap Clearance in Upflow Application

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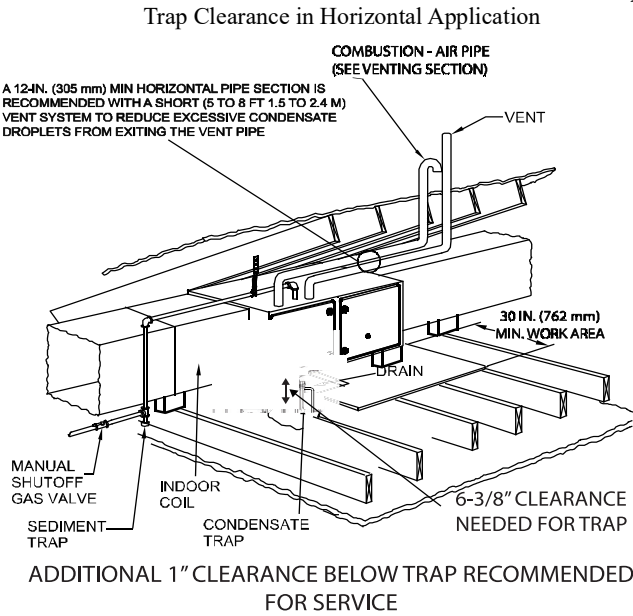
Trap Clearance in Horizontal Application
(Note: Drain line can be run horizontally or vertically)

A200066



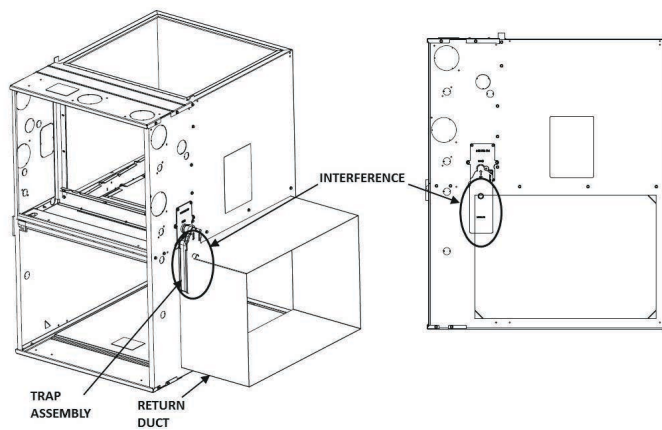
ADDITIONAL 1" CLEARANCE BELOW TRAP
RECOMMENDED FOR SERVICE

A200083



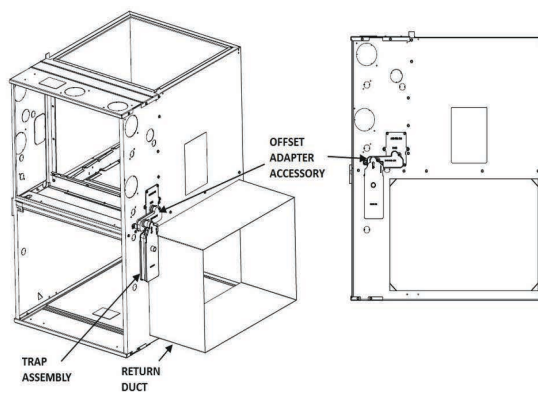
Working Platform for Attic Installation

A200088



Upflow Right Side Return Configuration -
Trap Interference

A200119



Upflow Right Side Return Configuration -
Required Upflow Offset Installation

A200120

Maximum Allowable Exposed Vent Length in Unconditioned Space - Ft.

| Winter Design Temp °F | Unit Size | 60,000 BTUH | | | | | | | | | | | |
|-----------------------|-----------------|-------------|----|-----|----|--------------------|----|-----|----|--------------------|----|-----|----|
| | | Uninsulated | | | | 3/8-in. Insulation | | | | 1/2-in. Insulation | | | |
| | Pipe Dia. (in.) | 1 ½ | 2 | 2 ½ | 3 | 1 ½ | 2 | 2 ½ | 3 | 1 ½ | 2 | 2 ½ | 3 |
| | 20 | 20 | 30 | 30 | 25 | 20 | 75 | 65 | 60 | 20 | 85 | 75 | 65 |
| | 0 | 15 | 15 | 10 | 10 | 20 | 40 | 30 | 25 | 20 | 45 | 40 | 30 |
| | -20 | 10 | 5 | | | 20 | 25 | 20 | 15 | 20 | 30 | 25 | 20 |
| -40 | 5 | | | | 20 | 15 | 15 | 10 | 20 | 20 | 15 | 10 | |

| Winter Design Temp °F | Unit Size | 80,000 BTUH | | | | | | | | | | | | | | |
|-----------------------|-----------------|-------------|----|-----|----|----|--------------------|----|-----|----|----|--------------------|----|-----|----|----|
| | | Uninsulated | | | | | 3/8-in. Insulation | | | | | 1/2-in. Insulation | | | | |
| | Pipe Dia. (in.) | 1 ½ | 2 | 2 ½ | 3 | 4 | 1 ½ | 2 | 2 ½ | 3 | 4 | 1 ½ | 2 | 2 ½ | 3 | 4 |
| | 20 | 15 | 40 | 40 | 35 | 30 | 15 | 50 | 90 | 75 | 65 | 15 | 50 | 70 | 70 | 70 |
| | 0 | 15 | 20 | 15 | 10 | 5 | 15 | 50 | 45 | 35 | 30 | 15 | 50 | 50 | 40 | 35 |
| | -20 | 15 | 10 | 5 | | | 15 | 35 | 30 | 20 | 15 | 15 | 40 | 30 | 25 | 15 |
| -40 | 10 | 5 | | | | 15 | 25 | 20 | 15 | 5 | 15 | 30 | 25 | 20 | 10 | |

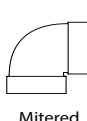
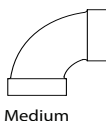
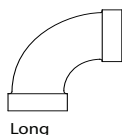
| Winter Design Temp °F | Unit Size | 100,000 BTUH | | | | | | | | | | | |
|-----------------------|-----------------|--------------|-----|----|----|--------------------|-----|----|----|--------------------|-----|-----|----|
| | | Uninsulated | | | | 3/8-in. Insulation | | | | 1/2-in. Insulation | | | |
| | Pipe Dia. (in.) | 2 | 2 ½ | 3 | 4 | 2 | 2 ½ | 3 | 4 | 2 | 2 ½ | 3 | 4 |
| | 20 | 20 | 50 | 40 | 35 | 20 | 80 | 95 | 80 | 20 | 80 | 105 | 90 |
| | 0 | 20 | 20 | 15 | 10 | 20 | 55 | 45 | 35 | 20 | 65 | 55 | 45 |
| | -20 | 15 | 10 | 5 | | 20 | 35 | 30 | 20 | 20 | 45 | 35 | 25 |
| -40 | 10 | 5 | | | 20 | 25 | 20 | 10 | 20 | 30 | 25 | 15 | |

Maximum Equivalent Vent Length - Ft.

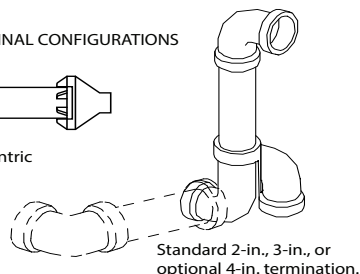
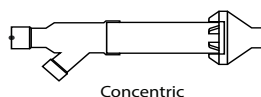
NOTE: Maximum Equivalent Vent Length (MEVL) includes standard and concentric vent termination and does NOT include elbows. Use Deductions from Maximum Equivalent Vent Length to determine allowable vent length for each application.

| Unit Size | | 60,000 | | | | 80,000 | | | | | 100,000 | | | |
|--------------------|----------------|--------|-----|-----|-----|--------|----|-----|-----|-----|---------|-----|-----|-----|
| Altitude (feet) | Pipe Dia. (in) | 1 ½ | 2 | 2 ½ | 3 | 1 ½ | 2 | 2 ½ | 3 | 4 | 2 | 2 ½ | 3 | 4 |
| | 0-2000 | 20 | 100 | 175 | 200 | 15 | 55 | 130 | 175 | 200 | 20 | 80 | 175 | 200 |
| | 2001-3000 | | 95 | 165 | 185 | 10 | 49 | 125 | 165 | 185 | 15 | 75 | 165 | 185 |
| | 3001-4000 | 16 | 90 | 155 | 175 | | | 115 | 155 | 175 | | | | 175 |
| | 4501-5000 | 15 | 80 | 145 | 165 | 10 | 44 | 110 | 145 | 160 | 10 | 65 | 150 | 165 |
| | 5001-5400 | | 75 | 140 | 155 | | 41 | 100 | 135 | 150 | | | 140 | 155 |

ELBOW CONFIGURATIONS



VENT TERMINAL CONFIGURATIONS



Deductions from Maximum Equivalent Vent Length - Ft. (M)

A13110

| Pipe Diameter (in): | 1-1/2 | | 2 | | 2-1/2 | | 3 | | 4 | |
|-----------------------------|-------|-------|-----|-------|-------|-------|-----|-------|-----|-------|
| Mitered 90° Elbow | 8 | (2.4) | 8 | (2.4) | 8 | (2.4) | 8 | (2.4) | 8 | (2.4) |
| Medium Radius 90° Elbow | 5 | (1.5) | 5 | (1.5) | 5 | (1.5) | 5 | (1.5) | 5 | (1.5) |
| Long Radius 90° Elbow | 1.3 | (0.9) | 3 | (0.9) | 3 | (0.9) | 3 | (0.9) | 3 | (0.9) |
| Mitered 45° Elbow | 4 | (1.2) | 4 | (1.2) | 4 | (1.2) | 4 | (1.2) | 4 | (1.2) |
| Medium Radius 45° Elbow | 2.5 | (0.8) | 2.5 | (0.8) | 2.5 | (0.8) | 2.5 | (0.8) | 2.5 | (0.8) |
| Long Radius 45° Elbow | 1.5 | (0.5) | 1.5 | (0.5) | 1.5 | (0.5) | 1.5 | (0.5) | 1.5 | (0.5) |
| Tee | 16 | (4.9) | 16 | (4.9) | 16 | (4.9) | 16 | (4.9) | 16 | (4.9) |
| Concentric Vent Termination | NA | | 0 | (0.0) | NA | | 0 | (0.0) | NA | |
| Standard Vent Termination | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) |

NOTES:

1. Use only the smallest diameter pipe possible for venting. Over-sizing may cause flame disturbance or excessive vent terminal icing or freeze-up.
2. NA - Not allowed. Pressure transducer will not close, or flame disturbance may result.
3. Vent sizing for Canadian installations over 4500 ft. (1370 M) above sea level are subject to acceptance by the local authorities having jurisdiction.
4. Size both the combustion air and vent pipe independently, then use the larger size for both pipes.
5. Assume the two 45° elbows equal one 90° elbow. Wide radius elbows are desirable and may be required in some cases.
6. Elbow and pipe sections within the furnace casing and at the vent termination should not be included in vent length or elbow count.
7. The minimum pipe length is 5 ft. (2 M) linear feet (meters) for all applications.
8. Use 3-in. (76 mm) diameter vent termination kit for installations requiring 4-in. (102 mm) diameter pipe.

Venting System Length Calculations

The Total Equivalent Vent Length (TEVL) for **EACH** combustion air or vent pipe equals the length of the venting system, plus the equivalent length of elbows used in the venting system from Deductions from Maximum Equivalent Vent Length Table.

Standard vent terminations or factory accessory concentric vent terminations count for zero deduction.

See vent system manufacturer's data for equivalent lengths of flexible vent pipe or other termination systems. **DO NOT ASSUME** that one foot of flexible vent pipe equals one foot of straight PVC/ABS DWV vent pipe.

Compare the Total Equivalent Vent Length to the Maximum Equivalent Vent Lengths in Maximum Equivalent Vent Length Table.

Example 1

A direct-vent 60,000 BTUH furnace installed at 2100 ft. (640M). Venting system includes **FOR EACH PIPE:**

70 feet (22 M) of vent pipe, 65 feet (20 M) of combustion air inlet pipe, (3) 90° long-radius elbows, (2) 45° long-radius elbows, and a factory accessory concentric vent kit.

Can this application use 2" (50 mm ND) PVC/ABS DWV vent piping?

| | | | | | | |
|---|---|---|--------------------|---|------------------|---|
| Measure the required linear length of air inlet and vent pipe; insert the longest of the two here | | | | | 70 ft. (22 M) | Use length of the longer of the vent or air inlet piping system |
| Add equiv length of (3) 90° long-radius elbows (use the highest number of elbows for either the vent or inlet pipe) | 3 | x | 3 ft. (0.9 M) | = | 9 ft. (2.7 M) | From Deductions from Maximum Equivalent Vent Length |
| Add equiv length of (2) 45° long-radius elbows (use the highest number of elbows for either the vent or inlet pipe) | 2 | x | 1.5 ft. (0.5 M) | = | 3 ft. (0.9 M) | From Deductions from Maximum Equivalent Vent Length |
| Add equiv length of factory concentric vent term | | | | | 0 ft. | From Deductions from Maximum Equivalent Vent Length |
| Add correction for flexible vent pipe, if any | | | | | 0 ft. | From Vent Manufacturer's instructions; zero for PVC/ABS DWV |
| Total Equivalent Vent Length (TEVL) | | | | | 82 ft. (25 M) | Add all of the above lines |
| | | | | | | |
| Maximum Equivalent Vent Length (MEVL) | | | | | 95 ft. (29 M) | For 2" pipe from Maximum Equivalent Vent Length |
| Is TEVL less than MEVL? | | | | | YES | Therefore, 2" pipe MAY be used |

Example 2

A direct-vent 60,000 BTUH furnace installed at 2100 ft. (640M). Venting system includes **FOR EACH PIPE:**

100 feet (30 M) of vent pipe, 95 feet (29 M) of combustion air inlet pipe, (3) 90° long-radius elbows, and a polypropylene concentric vent kit. Also includes 20 feet (6.1 M) of flexible polypropylene vent pipe, included within the 100 feet (30 M) of vent pipe.

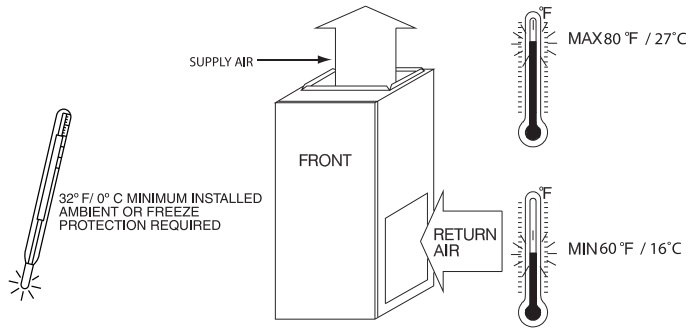
VERIFY FROM POLYPROPYLENE VENT MANUFACTURER'S INSTRUCTIONS for the multiplier correction for flexible vent pipe.

Can this application use 60mm o.d. (2") polypropylene vent piping? If not, what size piping can be used?

| | | | | | | | |
|---|----|---|-------------------|---|--------------------|--|---|
| Measure the required linear length of RIGID air inlet and vent pipe; insert the longest of the two here: 100 ft. Of rigid pipe - 20 ft. Of flexible pipe | | | | | = | 80 ft. (24 M) | Use length of the longer of the vent or air inlet piping system |
| Add equiv length of (3) 90° long-radius elbows (use the highest number of elbows for either the vent or inlet pipe) | 3 | x | 5 ft. (1.5 M) | = | 15 ft. (4.6 M) | Example from polypropylene vent manufacturer's instructions, Verify from vent manufacturer's instructions. | |
| Add equiv length of 45° long-radius elbows (use the highest number of elbows for either the vent or inlet pipe) | 0 | x | | = | 0 ft. (0 M) | | |
| Add equiv length of factory concentric vent term | 9 | x | 3.3 ft (0.9 M) | = | 30 ft. (9 M) | | |
| Add correction for flexible vent pipe, if any | 2* | x | 20 ft. (6.1 M) | = | 40 ft. (12.2 M) | | |
| * VERIFY FROM VENT MANUFACTURER'S INSTRUCTIONS; For example only, assume 1 meter of flexible 60mm (2") or 80mm (3") polypropylene pipe equals 2.0 meters (6.5 ft.) of PVC/ABS pipe. | | | | | | | |
| Total Equivalent Vent Length (TEVL) | | | | | 165 ft. (50 M) | Add all of the above lines | |
| | | | | | | | |
| Maximum Equivalent Vent Length (MEVL) | | | | | 95 ft. (29 M) | For 2" pipe from Maximum Equivalent Vent Length | |
| Is TEVL less than MEVL? | | | | | NO | Therefore, 60mm (2") pipe may NOT be used; try 80mm (3") | |
| | | | | | | | |
| Maximum Equivalent Vent Length (MEVL) | | | | | 185 ft. (57 M) | For 3" pipe from Maximum Equivalent Vent Length | |
| Is TEVL less than MEVL? | | | | | YES | Therefore, 80mm (3") pipe MAY be used | |

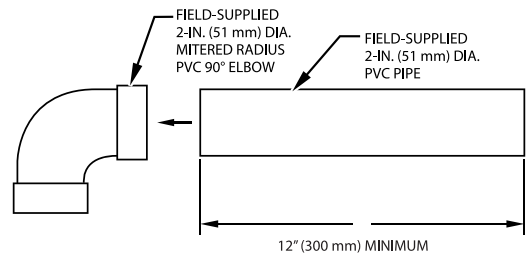
Return Air Temperature

This furnace is designed for continuous return-air minimum temperature of 60°F (15°C) db or intermittent operation down to 55°F (13°C) db such as when used with a night setback thermometer. Return-air temperature must not exceed 80°F (27°C) db. Failure to follow these return air limits may affect reliability of heat exchangers, motors and controls.



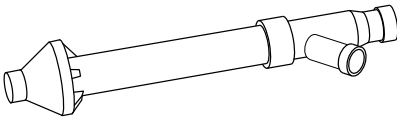
A10490

Combustion-Air Pipe for Non-Direct (1-Pipe) Vent Application



NOTE: See Installation Instructions for specific venting configurations.

A12376

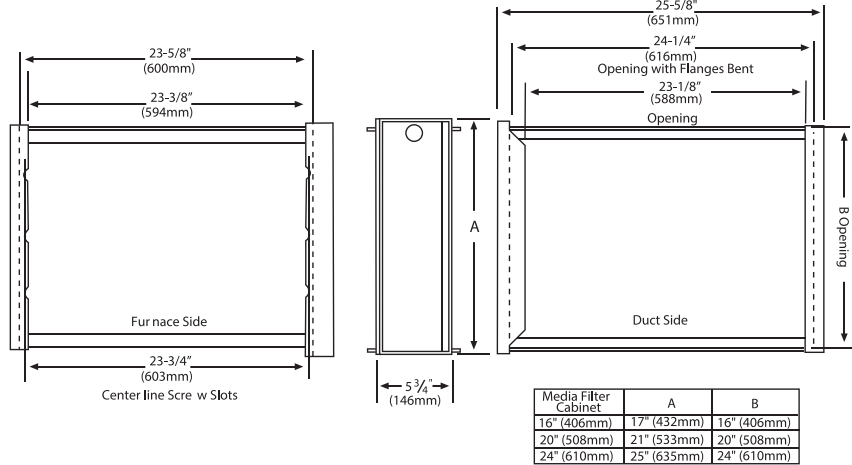


Concentric Vent Kit

A concentric vent kit allows vent and combustion-air pipes to terminate through a single exit in a roof or side wall. One pipe runs inside the other allowing venting through the inner pipe and combustion air to be drawn in through the outer pipe.

A93086

Media Filter Cabinet (Optional accessory)



NOTE: Media cabinet is matched to the bottom opening on furnace. May also be used for side return.

A12428

Accessories

| PART NUMBER | DESCRIPTION | 36040M17 | 48060M17 | 60080M21 | 60100M21 | 66100M21 |
|--------------|--|----------|----------|----------|----------|----------|
| P908-0001* | Condensate Neutralizer Kit | X | X | X | X | X |
| 92-1003* | Gas Valve Tower Port Adapter Kit | X | X | X | X | X |
| ACG1625NCF* | External Filter Rack, 16" x 25" | X | X | — | — | — |
| ACG2025NCJ* | External Filter Rack, 20" x 25" | — | — | X | X | X |
| 325531-402* | Washable filter, 3/4" x 16" x 25" | X | X | — | — | — |
| 325531-403* | Washable filter, 3/4" x 21" x 25" | — | — | X | X | X |
| KGADA0101ALL | Coil Adapter Kits – No Offset | X | X | X | X | X |
| KGADA0201ALL | Coil Adapter Kits – Single Offset | X | X | X | X | X |
| KGADA0301ALL | Coil Adapter Kits – Double Offset | X | X | X | X | X |
| KGARP0301B17 | Return Air Base (Upflow Applications) 17-1/2" wide | X | X | — | — | — |
| KGARP0301B21 | Return Air Base (Upflow Applications) 21" wide | — | — | X | X | X |

| | | | | | | |
|--------------|---|-----------------------|---|---|---|---|
| KGAVT0701CVT | Vent Terminal – Concentric – 2" (51 mm) | See Venting Tables | | | | |
| KGAVT0801CVT | Vent Terminal – Concentric – 3" (76 mm) | | | | | |
| KGAVT0101BRA | Vent Terminal Bracket – 2" (51 mm) | | | | | |
| KGAVT0201BRA | Vent Terminal Bracket – 3" (76 mm) | | | | | |
| KGADC0101BVC | Vent Kit - Through the Cabinet for HZ left/right ONLY | X | X | X | X | X |
| KGAAC0101RVC | Polypropylene Inlet Air Pipe Coupling | X | X | X | X | X |
| KGACK0101HCK | Horizontal Trap Grommet – Direct Vent | X | X | X | X | |
| AGACDKTUA10A | Trap Offset Adapter Kit – Upflow with Right Side Return | X | X | X | X | |
| KGAHT0101CFP | Freeze Protect Kit – Condensate Drain Line Tape | X | X | X | X | X |
| KGAAD0110PVC | CPVC to PVC Drain Adapters – 1/2" CPVC to 3/4" PVC | X | X | X | X | X |
| KGAAD0101MEC | IAQ Device Duct Adapters 20" IAQ to 16". Side Return | 20" x 25" IAQ Devices | | | | |
| KGAAD0201MEC | IAQ Device Duct Adapters 24" IAQ to 16" Side Return | 24" x 25" IAQ Devices | | | | |

*. Purchased through Replacement Components

| DESCRIPTION | ACCESSORY |
|----------------------------|------------|
| HUMIDIFIER | Model HUM |
| HEAT RECOVERY VENTILATOR | Model HRV |
| ENERGY RECOVERY VENTILATOR | Model ERV |
| ELECTRONIC AIR CLEANER | Model EACB |
| UV LIGHTS | Model UVL |

Bryant has a wide variety of thermostats for your system, please visit www.Bryant.com to see all thermostat and IAQ products.

| DESCRIPTION | ACCESSORY | 17" | 21" |
|--|------------------|-----|-----|
| Bryant Carbon Monoxide Alarm (10 pack) | COALMBBNRB02-A10 | X | X |
| Bryant Evolution Air Purifier - 16x25 (407x635 mm) | DGAPAXX1625 | X | - |
| Bryant Evolution Air Purifier - 20x25 (508x635 mm) | DGAPAXX2025 | - | X |
| Bryant Evolution Air Purifier Repl. Filter- 16x25 (407x635 mm) | PGAPXCAR1625A02 | X | - |
| Bryant Evolution Air Purifier Repl. Filter- 20x25 (508x635 mm) | PGAPXCAR2025A02 | - | X |
| Cartridge Media Filter – 16" (407 mm) (MERV 11) | FILXXCAR0116 | X | - |
| Cartridge Media Filter – 16" (407 mm) (MERV 8) | FILXXCAR0016 | X | - |
| Cartridge Media Filter – 20" (508 mm) (MERV 8) | FILXXCAR0020 | - | X |
| Cartridge Media Filter – 20" (508 mm) (MERV11) | FILXXCAR0120 | - | X |
| EZ Flex Cabinet Side or Bottom – 16" | EZXCAB--0016 | X | |
| EZ Flex Cabinet Side or Bottom – 20" | EZXCAB--0020 | - | X |
| EZ Flex Replacement Filters 16" MERV 10 | EXPXXFIL0016 | X | - |
| EZ Flex Replacement Filters 16" MERV 13 | EXPXXFIL0316 | X | - |
| EZ Flex Replacement Filters 20" MERV 10 | EXPXXFIL0020 | - | X |
| EZ Flex Replacement Filters 20" MERV 13 | EXPXXFIL0320 | - | X |
| EZ-Flex Filter with End Caps – 16" (407 mm) (MERV 10) | EXPXXUNV0016 | X | - |
| EZ-Flex Filter with End Caps – 16" (407 mm) (MERV 13) | EXPXXUNV0316 | X | - |
| EZ-Flex Filter with End Caps – 20" (508 mm) (MERV 10) | EXPXXUNV0020 | - | X |
| EZ-Flex Filter with End Caps – 20" (508 mm) (MERV 13) | EXPXXUNV0320 | - | X |
| Media Filter Cabinet – 20" | FILCABXL0020 | - | X |
| Media Filter Cabinet – 16" | FILCABXL0016 | X | - |

X = Used with the model furnace

GUIDE SPECIFICATIONS

General

System Description

Furnish a _____ 4-way multipoise gas-fired condensing furnace for use with natural gas or propane (factory-authorized conversion kit required for propane).

Quality Assurance

Unit will be designed, tested and constructed to the current ANSI Z 21.47/CSA 2.3 design standard for gas-fired central furnaces.

Unit will be third party certified by CSA to the current ANSI Z 21.47/CSA 2.3 design standard for gas-fired central furnaces. Unit will carry the CSA Blue Star® and Blue Flame® labels. Unit efficiency testing will be performed per the current DOE test procedure as listed in the Federal Register.

Unit will be certified for capacity and efficiency and listed in the latest AHRI Consumer's Directory of Certified Efficiency Ratings.

Unit will carry the current Federal Trade Commission Energy Guide efficiency label.

Delivery, Storage, and Handling

Unit will be shipped as single package only and is stored and handled per unit manufacturer's recommendations.

Warranty (for inclusion by specifying engineer)

U.S. and Canada only. Warranty certificate available upon request.

Equipment

Blower Wheel and ECM Blower Motor

Galvanized blower wheel shall be centrifugal type, statically and dynamically balanced. Blower motor of ECM type shall be permanently lubricated with sealed ball bearings, of _____ HP, and have multiple speeds from 600-1200 RPM operating only when 24-VAC motor inputs are provided. Blower motor shall be direct drive and soft mounted to the blower housing to reduce vibration transmission.

Filters

Furnace shall have reusable-type filters.

Filter shall be _____ in. (mm) x _____ in. (mm).

An accessory highly efficient Media Filter is available as an option.
_____ Media Filter.

Casing

Casing shall be of 0.030 in. thickness minimum, pre-painted steel.

Draft Inducer Motor

Draft inducer motor shall be single-speed PSC design.

Primary Heat Exchangers

Primary heat exchangers shall be 3-Pass corrosion-resistant aluminized steel of fold-and-crimp sectional design and applied operating under negative pressure.

Secondary Heat Exchangers

Secondary heat exchangers shall be of a stainless steel flow-through of fin-and-tube design and applied operating under negative pressure.

Controls

Controls shall include a micro-processor-based integrated electronic control board with at least 16 service troubleshooting codes displayed via diagnostic flashing LED light on the control, a self-test feature that checks all major functions of the furnace, and a replaceable automotive-type circuit protection fuse. Multiple operational settings available, including blower speeds for heating and cooling.

Operating Characteristics

Heating capacity shall be _____ Btuh input;
_____ Btuh output capacity.

Fuel Gas Efficiency shall be _____ AFUE.

Air delivery shall be _____ cfm minimum at 0.50 in. W.C. external static pressure.

Dimensions shall be: depth _____ in. (mm); width _____ in. (mm); height _____ in. (mm) (casing only).

Height shall be _____ in. (mm) with A/C coil and _____ in. (mm) overall with plenum.

Electrical Requirements

Electrical supply shall be 115 volts, 60 Hz, single-phase (nominal). Minimum wire size shall be _____ AWG; maximum fuse size of HACR-type designated circuit breaker shall be _____ amps.

Special Features

Refer to section of the product data identifying accessories and descriptions for specific features and available enhancements.