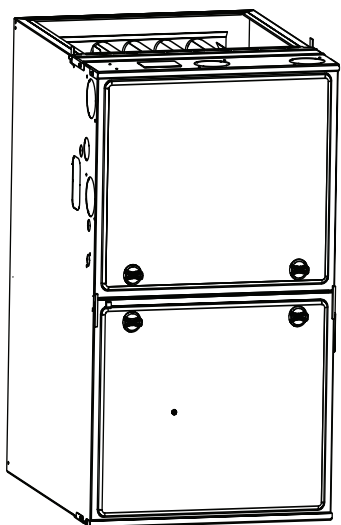


PG95MSU

Single-Stage, Upflow/Horizontal, Ultra Low NOx Emissions, Multi 18-Speed ECM, Condensing Gas Furnace

Product Data



A200219

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 PG95MSU 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 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 three 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 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.

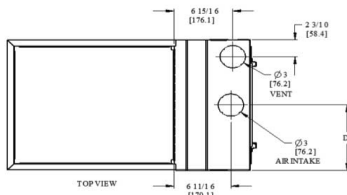
APPLICATIONS

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



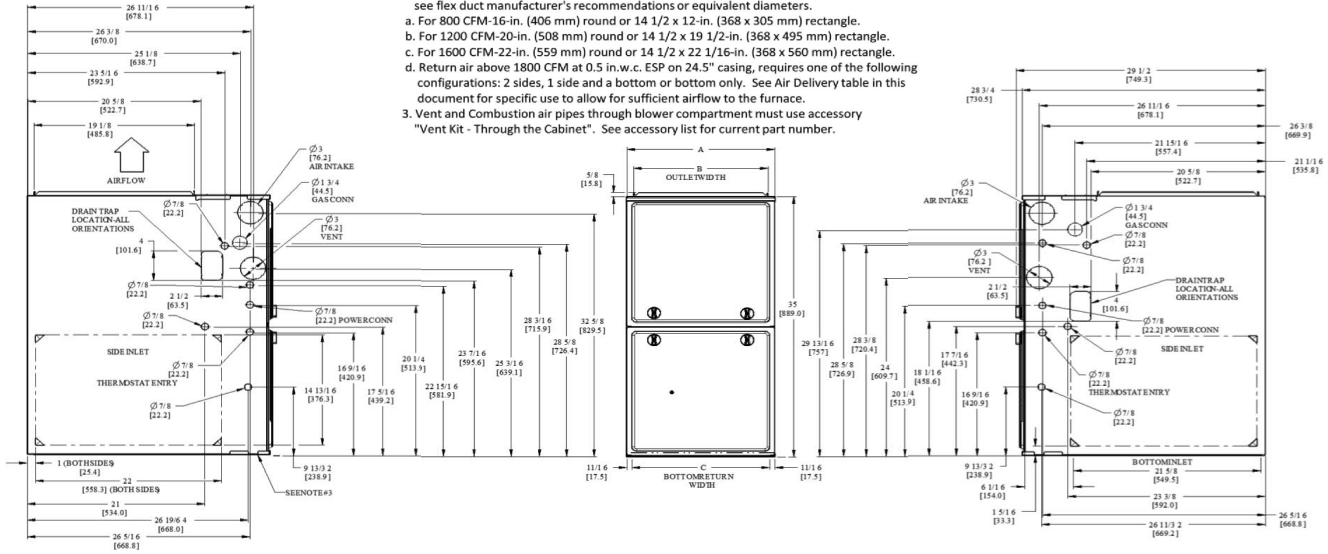
A200352

DIMENSIONAL DATA



NOTES:

- Doors may vary by model.
- Minimum return-air openings at furnace, based on metal duct. If flex duct is used, see flex duct manufacturer's recommendations or equivalent diameters.
 - For 800 CFM-16-in. (406 mm) round or 14 1/2 x 12-in. (368 x 305 mm) rectangle.
 - For 1200 CFM-20-in. (508 mm) round or 14 1/2 x 19 1/2-in. (368 x 495 mm) rectangle.
 - For 1600 CFM-22-in. (559 mm) round or 14 1/2 x 22 1/16-in. (368 x 560 mm) rectangle.
- Return air above 1800 CFM at 0.5 in.w.c. ESP on 24.5" casing, requires one of the following configurations: 2 sides, 1 side and a bottom or bottom only. See Air Delivery table in this document for specific use to allow for sufficient airflow to the furnace.
- Vent and Combustion air pipes through blower compartment must use accessory "Vent Kit - Through the Cabinet". See accessory list for current part number.



NOTE: ALL DIMENSIONS IN INCH (MM)

3, ECCN: Not Subject to Regulation (N.S.R.)

SD56R-4 REV. -

A210784

Dimensions

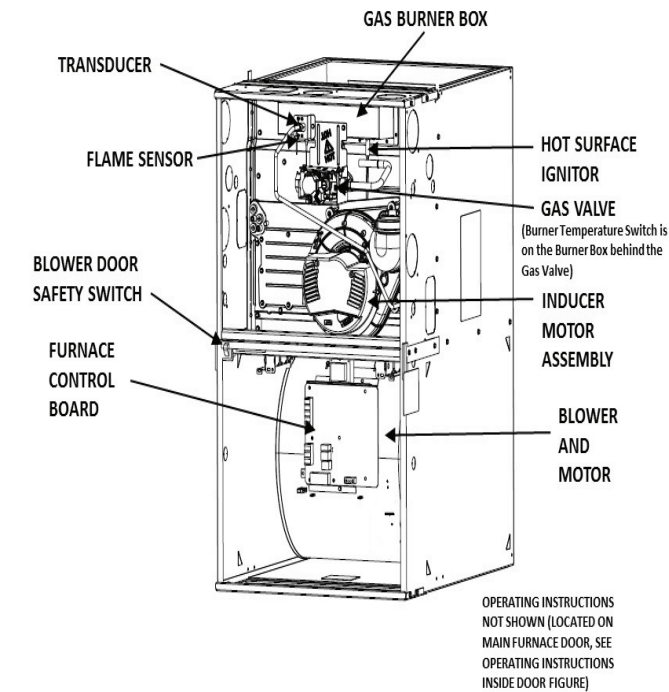
FURNACE SIZE	A	B	C	D	SHIP WT. LB (KG)
	CABINET WIDTH	OUTLET WIDTH	BOTTOM INLET WIDTH	AIR INTAKE	
36040B	17-1/2 (445)	15-7/8 (403)	16 (406)	8-3/4 (222)	136 (62)
48060B	17-1/2 (445)	15-7/8 (403)	16 (406)	8-3/4 (222)	141 (64)
60080C	21 (533)	19-3/8 (492)	19-1/2 (495)	10-1/2 (267)	161 (73)
60100C	21 (533)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

MODEL NUMBER NOMENCLATURE

1	2	3, 4	5	6	7	8	9 - 10	11, 12, 13	14	15	16
Brand Identifier P	Product G	Base Effy. 92	Motor E	Heating Stages S	NOx Level A	Major Series A	Cooling Capacity 36	Heating Input 040	Width A	Minor Series A	Variations A
CAC/CBP	G = Gas Furnace	80 = 80% AFUE 92 = 92% AFUE 95 = 95% AFUE 96 = 96% AFUE 97 = 97% AFUE 98 = 98% AFUE	C = Constant Airflow Variable-Speed (VCA) ECM V = Variable-Speed (VCT) PWM M = Multi 18-Speed Constant Torque (MCT) ECM	M = Modulating S = Single Stage T = Two-Stage	A = Standard L = Low NOx U = Ultra Low NOx	A B C ---	24 - 800 CFM 30 - 1000 CFM 36 - 1200 CFM 42 - 1400 CFM 48 - 1600 CFM 54 - 1800 CFM 60 - 2000 CFM 66 - 2200 CFM	026 = 26,000 BTU/h 040 = 40,000 BTU/h 060 = 60,000 BTU/h 080 = 80,000 BTU/h ---	A = 14.2" B = 17.5" C = 21.0" D = 24.5"	A B C ---	A = Standard Configuration

A220583

FURNACE COMPONENTS



A200121

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

UNIT SIZE		36040B	48060B	60080C	60100C
HEATING AND CAPACITY AND EFFICIENCY					
Input BTUh*		40,000	60,000	80,000	100,000
Output Capacity (BTUh)†		39,000	58,000	78,000	96,000
Certified Temperature Rise Range - °F (°C)		30-60 (17-33)	30-60 (17-33)	30-60 (17-33)	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
	Cooling	0.50	0.50	0.50	0.50
Airflow CFM @ Rated ESP (CFM)‡	Heating	800	1195	1655	1825
	Cooling	235-1255	315-1675	305-2080	290-1985
Direct Drive Motor HP		1/2	3/4	1	1
Motor Full Load Amps		6.7	8.8	11.7	11.7
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)
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		104-127			
Maximum Unit Amps		8.8	11.5	13.8	13.8
Unit Ampacity		11.5	14.8	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
Minimum Wire Size	AWG	14	14	12	12
Max. Fuse/Ckt Bkr Size (Time-Delay Type Recommended)	Amps	15	15	20	20
Transformer Capacity (24 VAC output)		40VA			
External Control Power Available	Heating	12VA			
	Cooling	35VA			
GAS CONTROLS					
Burners		2	3	4	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
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 2 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
36040B	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
48060B	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
60080C	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

INSTALLATION CONSIDERATIONS

Refer to Installation Instructions for complete installation requirements.

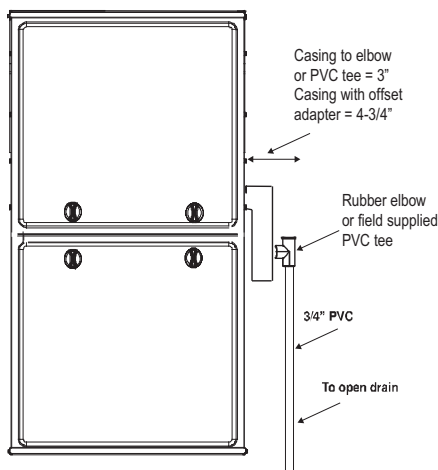
Evaporator Coil Spacer or Shield Requirements

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 Horizontal 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 Horizontal Right - MUST use shield)	Allowed (See Note 3)

NOTE:

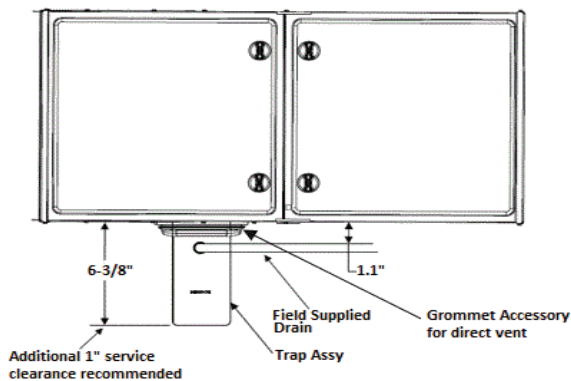
1. 3rd Party Coils that are factory-supplied with a metallic shield over the plastic composite drain pan must completely shield all plastic composite materials from direct exposure to any part of the heat exchanger. Consult with 3rd Party Manufacturer to ensure coil is properly shielded. Coils that are 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



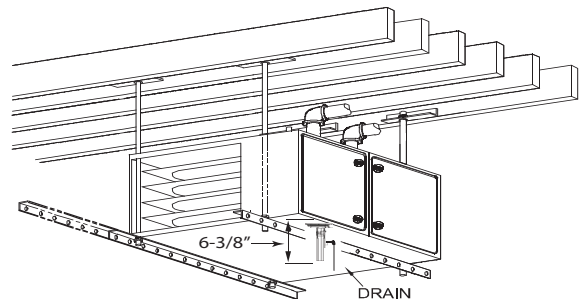
Trap Clearance in Upflow Application

A200084



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

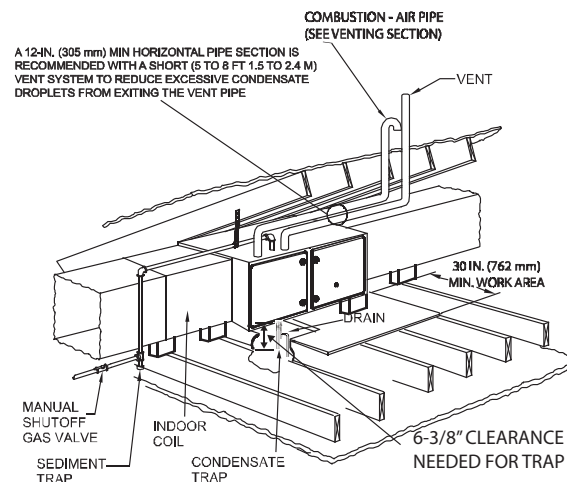
A200066



ADDITIONAL 1" CLEARANCE BELOW TRAP
RECOMMENDED FOR SERVICE

A200083

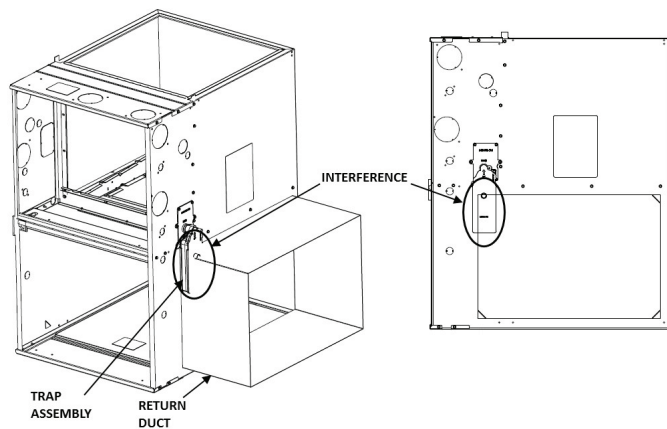
Trap Clearance in Horizontal Application



ADDITIONAL 1" CLEARANCE BELOW TRAP RECOMMENDED
FOR SERVICE

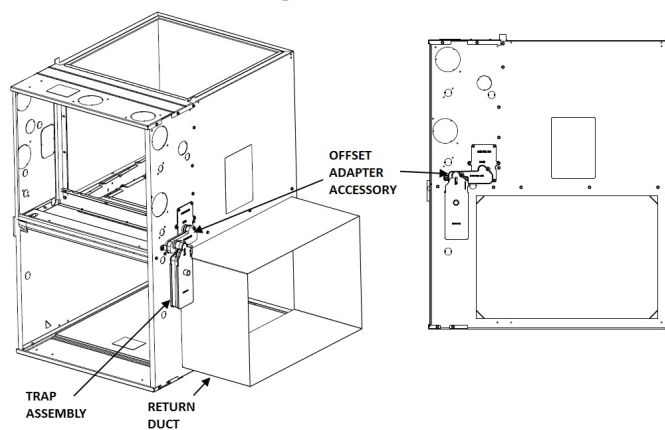
A200088

Working Platform for Attic Installation



A200119

Upflow Right Side Return Configuration -
Trap Interference



A200120

Upflow Right Side Return Configuration -
Required Upflow Offset Installation

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

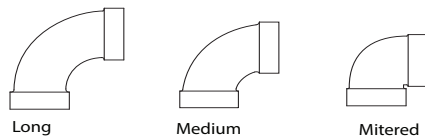
Winter Design Temp °F	Unit Size	100,000 BTUH											
		Uninsulated				3/8-in. Insulation				1/2-in. Insulation			
	Pipe Dia. (in.)	2	2 ½	3	4	2	2 ½	3	4	2	2 ½	3	4
	20	20	50	40	35	20	80	95	80	20	80	105	90
	0	20	20	15	10	20	55	45	35	20	65	55	45
-20	15	10	5			20	35	30	20	20	45	35	25
-40	10	5				20	25	20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

MAXIMUM EQUIVALENT VENT LENGTH - FT.

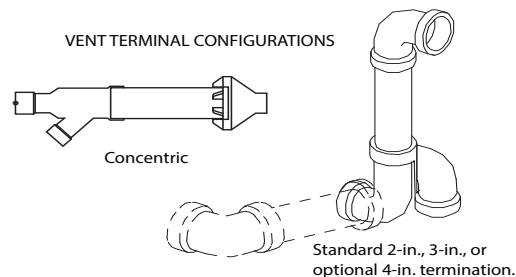
NOTE: Maximum Equivalent Vent Length (MEVL) includes standard and concentric vent termination and does NOT include elbows. Use Deductions from Maximum Equivalent Vent Length to determine allowable vent length for each application.

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			100	135	150			140	155

ELBOW CONFIGURATIONS



VENT TERMINAL CONFIGURATIONS



A13110

DEDUCTIONS FROM MAXIMUM EQUIVALENT VENT LENGTH - FT. (M)

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:

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

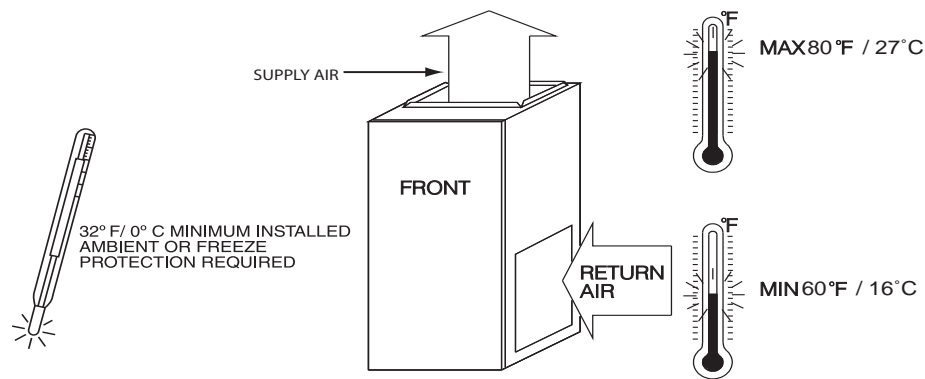
VERIFY FROM POLYPROPYLENE VENT MANUFACTURER'S INSTRUCTIONS for the multiplier correction for flexible vent pipe.

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 <
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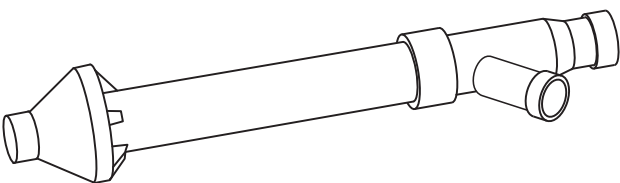
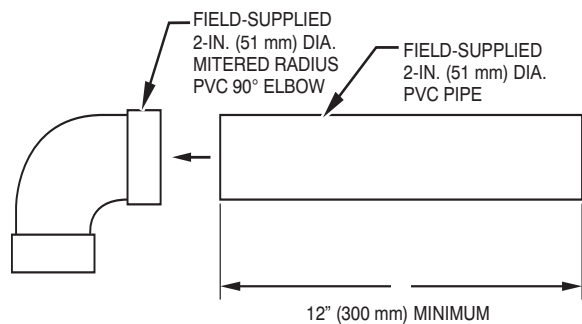
RETURN AIR TEMPERATURE

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



Concentric Vent Kit

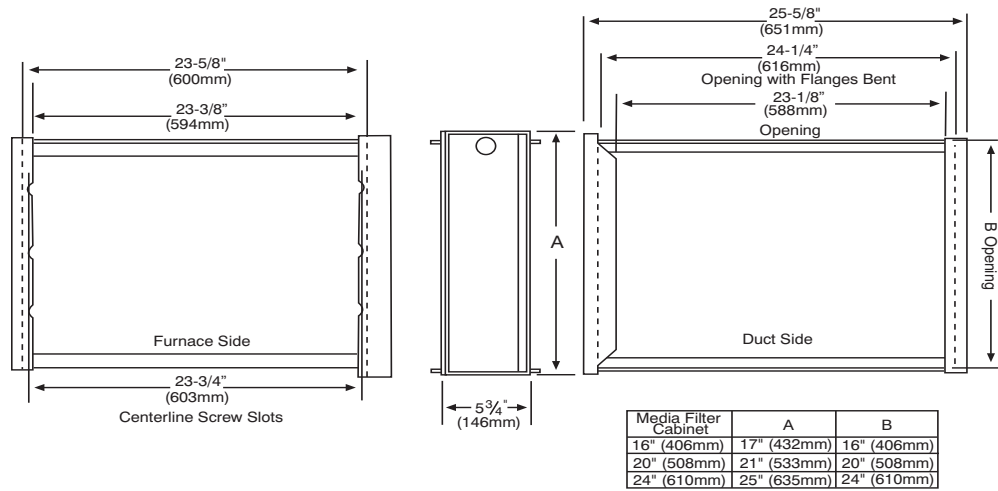
A93086

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.

NOTE: See Installation Instructions for specific venting configurations.

A12376

MEDIA FILTER CABINET (OPTIONAL ACCESSORY)



Media Filter Cabinet	A	B
16" (406mm)	17" (432mm)	16" (406mm)
20" (508mm)	21" (533mm)	20" (508mm)
24" (610mm)	25" (635mm)	24" (610mm)

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

A12428

ACCESSORIES

PART NUMBER	DESCRIPTION	36040B	48060B	60080C	60100C
P908-0001	Condensate Neutralizer Kit*	X	X	X	X
92-1003	Gas Valve Tower Port Adapter Kit*	X	X	X	X
ACG1625NCF	External Filter Rack, 16 x 25"	X	X	-	-
ACG2025NCJ	External Filter Rack, 20 x 25"	-	-	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
KGADA0101ALL	Coil Adapter Kits - No Offset	X	X	X	X
KGADA0201ALL	Coil Adapter Kits - Single Offset	X	X	X	X
KGADA0301ALL	Coil Adapter Kits - Double Offset	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
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)				
KGAAC0101RVC	Vent Kit - Rubber Coupling				
KGADC0101BVC	Vent Kit - Through the Cabinet for HZ left/right ONLY	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
KGAAD0110PVC	CPVC to PVC Drain Adapters - 1/2" CPVC to 3/4" PVC	X	X	X	X
KGAAD0101MEC	IAQ Device Duct Adapters 20.0-in. IAQ to 16 in. Side Return	20"x25" IAQ Devices			
KGAAD0201MEC	IAQ Device Duct Adapters 24.0-in. IAQ to 16 in. Side Return	24"x25" IAQ Devices			

*. Purchased through Replacement Components