



PG9MAB MULTIPOISE CONDENSING GAS FURNACE

Product Data



INSTALLATION FLEXIBILITY

The 4-way multipoise design allows a model PG9MAB to be installed in an upflow, downflow, or horizontal orientation. All sizes of the PG9MAB may be installed in direct vent (2-pipe) applications. All sizes except the 140 size may be installed in non-direct vent (1-pipe) applications. The 140 size also has an elevation limitation of 7,000 ft. See “Combustion Air and Vent Pipe” table for more information.

CASING

The casing also has the required openings for left- or right-side connection of gas, electric, drain, and vent connections.

COMBUSTION SYSTEM

Enclosed burner assembly isolates operating noise without the expense of sound deadening devices.

3-PASS PRIMARY HEAT EXCHANGERS

This design accelerates heat transfer and extracts heat that conventional heat exchangers waste up the flue. The primary heat exchanger is made of aluminized steel for corrosion resistance.

FLOW-THROUGH SECONDARY HEAT EXCHANGERS

Each cell is laminated with our patented polypropylene for greater corrosion resistance to help extend the life of the furnace for years of dependable performance. The heat exchanger is positioned in the furnace to extract additional heat from the combustion products regardless of furnace orientation.

MONOPORT INSHOT BURNERS

Produce precise air-to-gas mixture which gives a clean burn. The large monoport on the inshot or injection-type burners seldom, if ever, needs cleaning.

INTEGRATED CONTROL CENTER

The printed-circuit board has convenient terminals which permit quick-connection of a thermostat, air conditioning control circuits, a humidifier, or an air cleaner. The control has a built-in status indicator and self-test feature. A self-test feature allows for a complete check of the major components in about 60 seconds. The control also features an adjustable blower off delay.

COMBUSTION AIR AND VENTILATION

The PG9MAB advanced design allows for a variety of non-metallic venting materials to bring air into the furnace for combustion and for venting combustion products outside the structure. The vent pipe can terminate through a sidewall or through the roof.

In the United States, Schedule 40 PVC, Schedule 40 CPVC pipe and fittings, PVC-DWV, SDR-21 PVC, SDR-26 PVC, ABS-DWV, or ABSF628 Schedule 40 pipe may be used.

Installation in Canada must conform to the requirements of CSA B149 code. Vent systems MUST be composed of pipe, fittings, cements, and primers listed to ULC S636. The special vent fittings and accessory concentric vent termination kits and accessory external drain trap have been certified to ULC S636 for use with those IPEX PVC vent components which have been certified to this standard.

CERTIFICATIONS

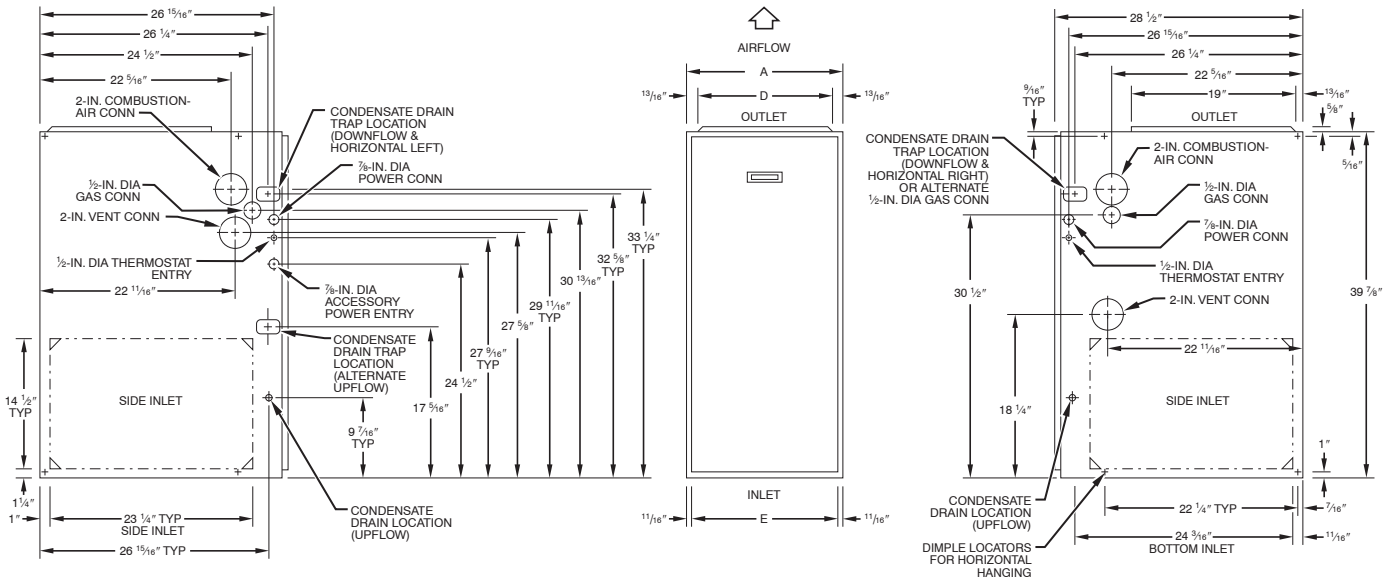
The PG9MAB units are Canadian Standards Association (CSA) design certified for use with natural and propane gases, as well as Air Conditioning, Heating and Refrigeration Institute (AHRI) efficiency rating certified. The furnace is factory-shipped for use with natural gas. A CSA listed gas conversion kit is required to convert furnace for use with propane gas. The model PG9MAA meets California Air Quality Management District emission requirements.

QUALITY REGISTRATION

The quality systems for this product have been registered by UL to ISO 9001 Standards.

DIMENSIONAL DRAWING

PG9MAB



NOTES: Minimum return-air opening at furnace, based on metal duct. If flex duct is used, see flex duct manufacturer's recommendation for equivalent diameters:

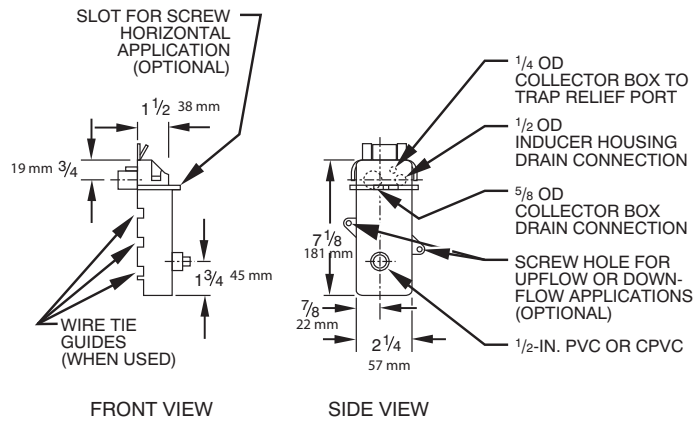
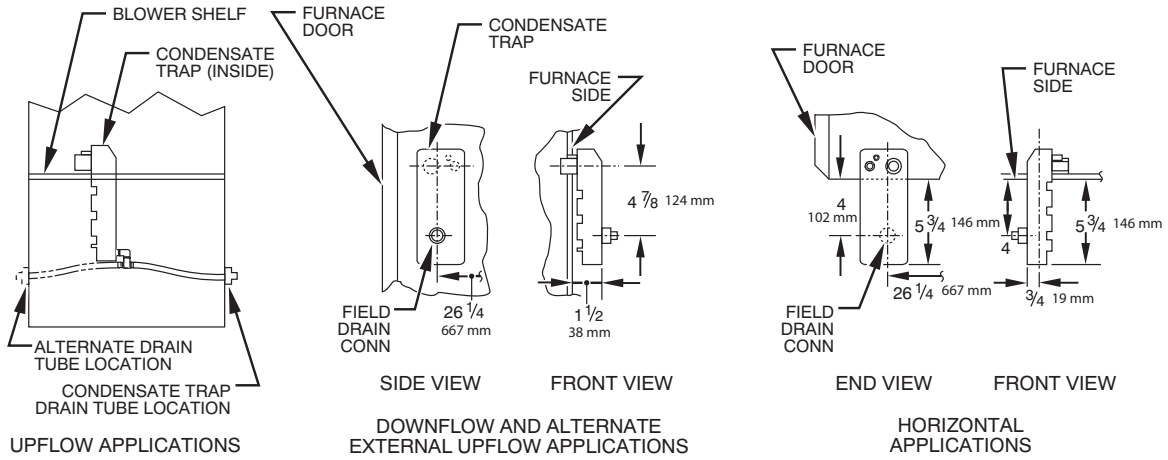
1. For 800 CFM 16-in. round or 14-1/2 X 12-in. rectangle.
2. For 1200 CFM 20-in. round or 14-1/2 X 19-1/2 in. rectangle.
3. For 1600 CFM 22-in. round or 14-1/2 X 23-1/4 in. rectangle.
4. For airflow requirements above 1800 CFM, see Air Delivery Table in product Specification Sheet for specific use of single side inlets. The use of both side inlets, a combination of 1 side and the bottom, or the bottom only will ensure adequate return-air openings for airflow requirements above 1800 CFM at 0.5" W.C. ESP.

A02185

Dimensions – IN. (mm)

UNIT SIZE	A	D	E
024040	17-1/2 (445)	15-7/8 (403)	16 (406)
036040	17-1/2 (445)	15-7/8 (403)	16 (406)
024060	17-1/2 (445)	15-7/8 (403)	16 (406)
036060	17-1/2 (445)	15-7/8 (403)	16 (406)
048060	17-1/2 (445)	15-7/8 (403)	16 (406)
036080	17-1/2 (445)	15-7/8 (403)	16 (406)
048080	17-1/2 (445)	15-7/8 (403)	16 (406)
060080	21 (533)	19-3/8 (492)	19-1/2 (495)
048100	21 (533)	19-3/8 (492)	19-1/2 (495)
060100	21 (533)	19-3/8 (492)	19-1/2 (495)
060120	24-1/2 (622)	22-7/8 (581)	23 (584)
060140	24-1/2 (622)	22-7/8 (581)	23 (584)

CONDENSATE TRAP



A93026

PG9MAB



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to www.ahridirectory.org.



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SPECIFICATIONS

PG9MAB

UNIT SIZE			024040	036040	024060	036060	048060	036080
RATINGS AND PERFORMANCE								
Input Btuh*			40,000	40,000	60,000	60,000	60,000	80,000
Output Capacity BTUH* (ICS) (Shaded capacities are specified on rating plate)	Direct Vent (2 – Pipe)	Upflow	37,000	37,000	56,000	56,000	56,000	74,000
		Downflow	37,000	37,000	56,000	56,000	56,000	74,000
		Horizontal	37,000	37,000	56,000	56,000	56,000	74,000
	Non – Direct Vent (1 – Pipe)	Upflow	37,000	37,000	56,000	56,000	56,000	74,000
		Downflow	37,000	37,000	56,000	56,000	56,000	74,000
		Horizontal	37,000	37,000	56,000	56,000	56,000	74,000
AFUE%† Nonweatherized ICS	Direct Vent (2 – Pipe)	Upflow	92.1	92.1	92.1	92.1	92.1	92.1
		Downflow	91	91	91	91	91	91
		Horizontal	92.1	92.1	92.1	92.1	92.1	92.1
	Non – Direct Vent (1 – Pipe)	Upflow	90					
		Downflow	90					
		Horizontal	90					
Certified Temperature Rise Range °F		30 – 60	15 – 45	45 – 75	30 – 60	20 – 50	40 – 70	
Certified External Static Pressure		Heating	0.10	0.10	0.12	0.12	0.12	0.15
		Cooling	0.50	0.50	0.50	0.50	0.50	0.50
Airflow CFM‡		Heating	850	1125	885	1065	1320	1190
		Cooling	895	1215	900	1200	1545	1245
ELECTRICAL								
Unit Volts—Hertz—Phase			115—60—1					
Operating Voltage Range Min—Max**			104—127					
Maximum Unit Amps			6.1	7.4	6.1	7.2	9.6	7.7
Unit Ampacity††			8.4	10.0	8.4	9.8	12.8	10.4
Minimum Wire Size			14	14	14	14	14	14
Maximum Wire Length (Ft)‡‡			44	37	44	38	29	36
Maximum Fuse Size or Ckt Bkr Amps (Time—Delay Type Recommended)			15	15	15	15	15	15
Transformer (24v)			40va					
External Control		Heating	12va					
Power Available		Cooling	21va					
Air Conditioning Blower Relay			Standard					
CONTROLS								
Limit Control			SPST					
Heating Blower Control (Off Delay)			Selectable 90, 120, 150, or 180					
Burners (Monoport)			2	2	3	3	3	4
Gas Connection Size			1/2—in. NPT					
GAS CONTROLS								
Gas Valve (Redundant)	Manufacturer		White—Rodgers					
	Minimum Inlet Pressure (In. W.C.)		4.5 (Natural Gas)					
	Maximum Inlet Pressure (In. W.C.)		13.6 (Natural Gas)					
Ignition Device			Hot Surface					
BLOWER DATA								
Direct—Drive Motor HP (Permanent Split Capacitor)			1/5	1/3	1/5	1/3	1/2	1/3
Motor Full Load Amps			4.9	5.8	4.9	5.8	7.9	5.8
RPM (Nominal)—Speeds			1075—3	1075—4	1075—3	1075—4		
Blower Wheel Diameter x Width (In.)			10 X 6	10 X 7	10 X 6	10 X 7	11 X 8	10 X 7
Filter Size (In.)—Permanent Washable			(1) 16 X 25 X 3/4					
			(1) 20 X 25 X 3/4					
FACTORY—AUTHORIZED AND LISTED, DEALER—INSTALLED OPTIONS								
Gas Conversion Kit—Natural—to—Propane			KGANP4601ALL					
Gas Conversion Kit—Propane—to—Natural			KGAPN3901ALL					
Twinning Kit			N/A				KGATW 0601HSI	N/A
Manufactured (Mobile) Home Kit†††			KGAMH0301KIT					
Downflow Base***			KGASB0201ALL					
Vent Termination Kit (Bracket Only for 2 Pipes)†††			2—in.—KGAVT0101BRA			3—in.—KGAVT0201BRA		
Concentric Vent Termination Kit (Single Exit)†††			2—in.—KGAVT0701CVT			3—in.—KGAVT0801CVT		
Condensate Freeze Protection Kit			KGAHT0101CFP					
Side Filter Rack (Without Filter)—Upflow ONLY			KGAFR0201ALL					
Condensate Neutralizer Kit (obtained thru RCD)			P908—0001					
Door Gasket Kit			KGBAC0110DGK					

* Gas input ratings are certified for elevations to 2000 ft. For elevations above 2000 ft, reduce ratings 2 percent for each 1000 ft above sea level. In Canada, derate the unit 5 percent from 2000 to 4500 ft above sea level.

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

‡ Airflow shown is for bottom only return—air supply. For air delivery above 1800 CFM, see Air Delivery table for other options. A filter is required for each return—air supply.

** Permissible voltage limits for proper furnace operation.

†† Unit ampacity = 125 percent of full load amps of largest components plus 100 percent full load amps of all other potential operating components (EAC, humidifier, etc.).

‡‡ Length shown is measured 1 way along wire path between unit and service panel for maximum 2 percent voltage drop.

*** Required for installation on combustible floors when no coil box is used, or when any coil box other than a Payne CD5, CK5 or KCAKC cased coil is used.

††† For direct vent applications only.

N/A—Not Applicable. Unit is not allowed in this installation application.

ICS—Isolated Combustion System

SPECIFICATIONS (CONTINUED)

UNIT SIZE			048080	060080	048100	060100	060120	060140	
RATINGS AND PERFORMANCE									
Input Btuh*			80,000	80,000	100,000	100,000	120,000	138,000	
Output Capacity BTUH* (ICS) (Shaded capacities are specified on rating plate)	Direct Vent (2–Pipe)	Upflow	74,000	74,000	93,000	93,000	112,000	127,000	
		Downflow	74,000	74,000	93,000	93,000	112,000	127,000	
		Horizontal	74,000	74,000	93,000	93,000	112,000	127,000	
	Non–Direct Vent (1–Pipe)	Upflow	74,000	74,000	93,000	93,000	112,000	NA	
		Downflow	74,000	74,000	93,000	93,000	112,000	NA	
		Horizontal	74,000	74,000	93,000	93,000	112,000	NA	
AFUE%† Nonweatherized ICS	Direct Vent (2–Pipe)	Upflow	92.1	92.1	92.1	92.1	92.1	92.1	
		Downflow	91	91	91	91	91	90	
		Horizontal	92.1	92.1	92.1	92.1	92.1	92	
	Non–Direct Vent (1–Pipe)	Upflow	90						NA
		Downflow	90						NA
		Horizontal	90						NA
Certified Temperature Rise Range °F			30—60	20—50	45—75	30—60	40—70	50—80	
Certified External Static Pressure		Heating	0.15	0.15	0.20	0.20	0.20	0.20	
		Cooling	0.50	0.50	0.50	0.50	0.50	0.50	
Airflow CFM‡		Heating	1285	1785	1315	1690	1720	1970	
		Cooling	1525	1925/2035	1570	1930/2130	2000/2130	1990/2045	
ELECTRICAL									
Unit Volts—Hertz—Phase			115—60—1						
Operating Voltage Range Min—Max**			104—127						
Maximum Unit Amps			10.1	14.1	10.2	14.8	14.6	14.6	
Unit Ampacity††			13.4	18.4	13.5	19.3	19.1	18.8	
Minimum Wire Size			14	12	14	12	12	12	
Maximum Wire Length (Ft)‡‡			28	31	27	30	30	30	
Maximum Fuse Size or Ckt Bkr Amps (Time—Delay Type Recommended)			15	20	15	20	20	20	
Transformer (24v)			40va						
External Control		Heating	12va						
Power Available		Cooling	21va						
Air Conditioning Blower Relay			Standard						
CONTROLS									
Limit Control			SPST						
Heating Blower Control (Off Delay)			Selectable 90, 120, 150, or 180						
Burners (Monoport)			4	4	5	5	6	6	
Gas Connection Size			1/2—in. NPT						
GAS CONTROLS									
Gas Valve (Redundant)	Manufacturer		White—Rodgers						
	Minimum Inlet Pressure (In. W.C.)		4.5 (Natural Gas)						
	Maximum Inlet Pressure (In. W.C.)		13.6 (Natural Gas)						
Ignition Device			Hot Surface						
BLOWER DATA									
Direct—Drive Motor HP (Permanent Split Capacitor)			1/2	3/4	1/2	3/4	3/4	3/4	
Motor Full Load Amps			7.9	11.1	7.9	11.1	11.1	11.1	
RPM (Nominal)—Speeds			1075—4						
Blower Wheel Diameter x Width (In.)			11 X 8	11 X 10	11 X 8	11 X 10	11 X 10	11 X 10	
Filter Size (In.)—Permanent Washable			(1) 20 X 25 X 3/4				(1) 24 X 25 X 3/4		
FACTORY—AUTHORIZED AND LISTED, DEALER—INSTALLED OPTIONS									
Gas Conversion Kit—Natural—to—Propane			KGANP4601ALL						
Gas Conversion Kit—Propane—to—Natural			KGAPN3901ALL						
Twinning Kit			KGATW0601HSI						N/A
Manufactured (Mobile) Home Kit†††			KGAMH0301KIT						N/A
Downflow Base***			KGASB0201ALL						
Vent Termination Kit (Bracket Only for 2 Pipes)†††			2—in.—KGAVT0101BRA			3—in.—KGAVT0201BRA			
Concentric Vent Termination Kit (Single Exit)†††			2—in.—KGAVT0701CVT			3—in.—KGAVT0801CVT			
Condensate Freeze Protection Kit			KGAHT0101CFP						
Side Filter Rack (Without Filter)—Upflow ONLY			KGAFR0206ALL						
Condensate Neutralizer Kit (obtained thru RCD)			P908—0001						
Door Gasket Kit			KGBAC0110DGK						

* Gas input ratings are certified for elevations to 2000 ft. For elevations above 2000 ft, reduce ratings 2 percent for each 1000 ft above sea level. In Canada, derate the unit 5 percent from 2000 to 4500 ft above sea level.

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

‡ Airflow shown is for bottom only return—air supply. For air delivery above 1800 CFM, see Air Delivery table for other options. A filter is required for each return—air supply.

** Permissible voltage limits for proper furnace operation.

†† Unit ampacity = 125 percent of full load amps of largest components plus 100 percent full load amps of all other potential operating components (EAC, humidifier, etc.).

‡‡ Length shown is measured 1 way along wire path between unit and service panel for maximum 2 percent voltage drop.

*** Required for installation on combustible floors when no coil box is used, or when any coil box other than a Payne CD5, CK5, CAP(R), CNP(R), or KCAKC cased coil is used.

††† For direct vent applications only.

N/A— Not Applicable. Unit is not allowed in this installation application.

ICS— Isolated Combustion System

MAXIMUM ALLOWABLE PIPE LENGTH - FT (M)

PG9MAB

ALTITUDE FT (M)	UNIT SIZE (BTUH)	DIRECT VENT (2-PIPE) ONLY		NON-DIRECT VENT (1-PIPE) ONLY	NUMBER OF 90° ELBOWS					
		TERMINATION TYPE	PIPE DIA IN. (mm)*	PIPE DIA IN. (mm)*	1	2	3	4	5	6
0 to 2000 (0 to 610)	40,000	2 Pipe or 2-in Concentric	1 (25)	1 (25)	5 (1.5)	NA	NA	NA	NA	NA
			1-1/2 (38)	1-1/2 (38)	70 (21.3)	70 (21.3)	65 (19.8)	60 (18.3)	60 (18.3)	55 (16.8)
			2 (51)	2 (51)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)
	60,000	2 Pipe or 2-in Concentric	1-1/2 (38)	1-1/2 (38)	20 (6.1)	15 (4.6)	10 (3.0)	5 (1.5)	NA	NA
			2 (51)	2 (51)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)
	80,000	2 Pipe or 2-in Concentric	1-1/2 (38)	1-1/2 (38)	10 (3.0)	NA	NA	NA	NA	NA
			2 (51)	2 (51)	55 (16.8)	50 (15.2)	35 (10.7)	30 (9.1)	30 (9.1)	20 (6.1)
			2-1/2 (64)	2-1/2 (64)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)
	100,000	2 Pipe or 3-in Concentric	2 (51)	2 (51)	5 (1.5)	NA	NA	NA	NA	NA
			2-1/2 (64)	2-1/2 (64)	40 (12.2)	30 (9.1)	20 (6.1)	20 (6.1)	10 (3.0)	NA
			3 (76)	3 (76)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)
	120,000	2 Pipe or 3-in. Concentric	2-1/2 (64) one disk	2-1/2 (64)	10 (3.0)	NA	NA	NA	NA	NA
			3 (76)†	NA	45 (13.7)	40 (12.2)	35 (10.7)	30 (9.1)	25 (7.6)	20 (6.1)
			3 (76) † no disk	3 (76)†	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)
	140,000	2 Pipe or 3-in. Concentric	2-1/2 (64) one disk	NA	5 (1.5)	NA	NA	NA	NA	NA
			3 (76)†	NA	40 (12.1)	35 (10.6)	30 (9.1)	25 (7.6)	20 (6.1)	15 (4.6)
			3 (76) † no disk	NA	60 (18.3)	56 (17.0)	52 (15.8)	48 (14.6)	44 (13.4)	40 (12.2)
			4 (102) † no disk	NA	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)
ALTITUDE FT (M)	UNIT SIZE (BTUH)	DIRECT VENT (2-PIPE) ONLY		NON-DIRECT VENT (1-PIPE) ONLY	NUMBER OF 90° ELBOWS					
		TERMINATION TYPE	PIPE DIA IN. (mm)*	PIPE DIA IN. (mm)*	1	2	3	4	5	6
2001 to 3000 (610 to 914) Canada	40,000	2 Pipe or 2-in Concentric	1-1/2 (38)	1-1/2 (38)	67 (20.4)	62 (18.9)	57 (17.4)	52 (15.8)	52 (15.8)	47 (14.3)
			2 (51)	2 (51)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)
	60,000	2 Pipe or 2-in Concentric	1-1/2 (38)	1-1/2 (38)	17 (5.2)	12 (3.7)	7 (2.1)	NA	NA	NA
			2 (51)	2 (51)	70 (21.3)	67 (20.4)	66 (20.1)	61 (18.6)	61 (18.6)	61 (18.6)
	80,000	2 Pipe or 2-in Concentric	2 (51)	2 (51)	49 (14.9)	44 (13.4)	30 (9.1)	25 (7.6)	25 (7.6)	15 (4.6)
			2-1/2 (64)	2-1/2 (64)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)
	100,000	2 Pipe or 3-in Concentric	2-1/2 (64)	2-1/2 (64)	35 (10.7)	26 (7.9)	16 (4.9)	16 (4.9)	6 (1.8)	NA
			3 (76)	3 (76)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	66 (20.1)	61 (18.6)
	120,000	2 Pipe or 3-in. Concentric	3 (76)	NA	14 (4.3)	9 (2.7)	NA	NA	NA	NA
			NA	3 (76)†	63 (19.2)	62 (18.9)	62 (18.9)	61 (18.6)	61 (18.6)	61 (18.6)
			3 (76)† no disk	NA	70 (21.3)	70 (21.3)	63 (19.2)	56 (17.1)	50 (15.2)	43 (13.1)
			4 (102)† no disk	4 (102)† no disk	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)
	140,000	2 Pipe or 3-in. Concentric	3 (76) one disk†	NA	20 (6.1)	15 (4.6)	10 (3.0)	5 (1.5)	NA	NA
			3 (76)† no disk	NA	39 (11.8)	35 (10.6)	31 (11.9)	27 (8.2)	23 (7.0)	19 (5.8)
			4 (102)† no disk	NA	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)

See notes at end of table.

MAXIMUM ALLOWABLE PIPE LENGTH - FT (M)

ALTITUDE FT (M)	UNIT SIZE (BTUH)	DIRECT VENT (2-PIPE) ONLY		NON-DIRECT VENT (1-PIPE) ONLY	NUMBER OF 90° ELBOWS					
		TERMINATION TYPE	PIPE DIA – IN (mm)*	PIPE DIA – IN (mm)*	1	2	3	4	5	6
3001 to 4000 (914 to 1219)	40,000	2 Pipe or 2-in Concentric	1-1/2 (38)	1-1/2 (38)	64 (19.5)	59 (18.0)	54 (16.5)	49 (14.9)	48 (14.6)	43 (13.1)
			2 (51)	2 (51)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)
	60,000	2 Pipe or 2-in Concentric	1-1/2 (38)	1-1/2 (38)	16 (4.9)	11 (3.4)	6 (1.8)	NA	NA	NA
			2 (51)	2 (51)	68 (20.7)	63 (19.2)	62 (18.9)	57 (17.4)	57 (17.4)	56 (17.1)
	80,000	2 Pipe or 2-in Concentric	2 (51)	2 (51)	46 (14.0)	41 (12.5)	28 (8.5)	23 (7.0)	22 (6.7)	13 (4.0)
			2-1/2 (64)	2-1/2 (64)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)
	100,000	2 Pipe or 3-in Concentric	2-1/2 (64)	2-1/2 (64)	33 (10.1)	24 (7.3)	15 (4.6)	14 (4.3)	5 (1.5)	NA
			3 (76)	3 (76)	70 (21.3)	70 (21.3)	70 (21.3)	66 (20.1)	61 (18.6)	56 (17.1)
	120,000	2 Pipe or 3-in. Concentric	3 (76)† no disk	NA	65 (19.8)	58 (17.7)	51 (15.5)	44 (13.4)	38 (11.6)	31 (9.4)
			NA	3 (76)†	59 (18.0)	59 (18.0)	58 (17.7)	57 (17.4)	57 (17.4)	56 (17.1)
	140,000	2 Pipe or 3-in. Concentric	4 (102)† no disk	4 (102) † no disk	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)
			3 (76) one disk†	NA	11 (3.4)	6 (1.8)	NA	NA	NA	NA
			3 (76)† no disk	NA	30 (9.1)	26 (7.9)	22 (6.7)	18 (5.5)	14 (4.3)	10 (3.0)
	140,000	2 Pipe or 3-in. Concentric	4 (102)† no disk	NA	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)
ALTITUDE FT (M)	UNIT SIZE (BTUH)	DIRECT VENT (2-PIPE) ONLY		NON-DIRECT VENT (1-PIPE) ONLY	NUMBER OF 90° ELBOWS					
		TERMINATION TYPE	PIPE DIA IN. (mm)*	PIPE DIA IN. (mm)*	1	2	3	4	5	6
4001 to 5000† (1219 to 1524)	40,000	2 Pipe or 2-in Concentric	1-1/2 (38)	1-1/2 (38)	60 (18.3)	55 (16.8)	50 (15.2)	45 (13.7)	44 (13.4)	39 (11.9)
			2 (51)	2 (51)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)
	60,000	2 Pipe or 2-in Concentric	1-1/2 (38)	1-1/2 (38)	15 (4.6)	10 (3.0)	5 (1.5)	NA	NA	NA
			2 (51)	2 (51)	64 (19.5)	59 (18.0)	58 (17.7)	53 (16.2)	52 (15.8)	52 (15.8)
	80,000	2 Pipe or 2-in Concentric	2 (51)	2 (51)	44 (13.4)	39 (11.9)	26 (7.9)	21 (6.4)	20 (6.1)	11 (3.4)
			2-1/2 (64)	2-1/2 (64)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)
	100,000	2 Pipe or 3-in Concentric	2-1/2 (64)	2-1/2 (64)	31 (9.4)	22 (6.7)	13 (4.0)	12 (3.7)	NA	NA
			3 (76)	3 (76)	70 (21.3)	70 (21.3)	67 (20.4)	62 (18.9)	57 (17.4)	52 (15.8)
	120,000	2 Pipe or 3-in. Concentric	3 (76)† no disk	NA	53 (16.2)	46 (14.0)	40 (12.2)	33 (10.1)	26 (7.9)	20 (6.1)
			NA	3 (76)†	56 (17.1)	55 (16.8)	54 (16.5)	53 (16.2)	52 (15.8)	52 (15.8)
			4 (102)† no disk	4 (102)† no disk	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)
	140,000	2 Pipe or 3-in. Concentric	3 (76)† no disk	NA	21 (6.4)	17 (5.1)	13 (3.9)	9 (2.7)	5 (1.5)	NA
			4 (102)† no disk	NA	69 (21.0)	64 (19.5)	59 (17.9)	54 (16.4)	49 (15.0)	44 (13.4)

See notes at end of table.

MAXIMUM ALLOWABLE PIPE LENGTH - FT (M)

PG9MAB

ALTITUDE FT (M)	UNIT SIZE (BTUH)	DIRECT VENT (2-PIPE) ONLY		NON-DIRECT VENT (1-PIPE) ONLY	NUMBER OF 90° ELBOWS					
		TERMINATION TYPE	PIPE DIA IN. (mm)*	PIPE DIA IN. (mm)*	1	2	3	4	5	6
5001 to 6000† (1524 to 1829)	40,000	2 Pipe or 2-in Concentric	1-1/2 (38)	1-1/2 (38)	57 (17.4)	52 (15.8)	47 (14.3)	42 (12.8)	40 (12.2)	35 (10.7)
			2 (51)	2 (51)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)
	60,000	2 Pipe or 2-in Concentric	1-1/2 (38)	1-1/2 (38)	14 (4.3)	9 (2.7)	NA	NA	NA	NA
			2 (51)	2 (51)	60 (18.3)	55 (16.8)	54 (16.5)	49 (14.9)	48 (14.6)	47 (14.3)
	80,000	2 Pipe or 2-in Concentric	2 (51)	2 (51)	41 (12.5)	36 (11.0)	23 (7.0)	18 (5.5)	17 (5.2)	8 (2.4)
			2-1/2 (64)	2-1/2 (64)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)
	100,000	2 Pipe or 3-in Concentric	2-1/2 (64)	2-1/2 (64)	29 (8.8)	21 (6.4)	12 (3.7)	11 (3.4)	NA	NA
			3 (76)	3 (76)	70 (21.3)	67 (20.4)	62 (18.9)	57 (17.4)	52 (15.8)	47 (14.3)
	120,000	2 Pipe or 3-in. Concentric	3 (76)† no disk	NA	42 (12.8)	35 (10.7)	29 (8.8)	22 (6.7)	15 (4.6)	9 (2.7)
			NA	3 (76)†	53 (16.2)	52 (15.8)	50 (15.2)	49 (14.9)	48 (14.6)	47 (14.3)
			4 (102)† no disk	4 (102)† no disk	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)
	140,000	2 Pipe or 3-in. Concentric	3 (76)† no disk	NA	12 (3.6)	8 (2.4)	NA	NA	NA	NA
			4 (102)† no disk	NA	42 (12.8)	37 (11.2)	32 (9.7)	27 (8.2)	22 (6.7)	17 (5.1)
ALTITUDE FT (M)	UNIT SIZE (BTUH)	DIRECT VENT (2-PIPE) ONLY		NON-DIRECT VENT (1-PIPE) ONLY	NUMBER OF 90° ELBOWS					
		TERMINATION TYPE	PIPE DIA IN. (mm)*	PIPE DIA IN. (mm)*	1	2	3	4	5	6
6001 to 7000† (1829 to 2134)	40,000	2 Pipe or 2-in Concentric	1-1/2 (38)	1-1/2 (38)	53 (16.2)	48 (14.6)	43 (13.1)	38 (11.6)	37 (11.3)	32 (9.8)
			2 (51)	2 (51)	70 (21.3)	70 (21.3)	68 (20.7)	67 (20.4)	66 (20.1)	64 (19.5)
	60,000	2 Pipe or 2-in Concentric	1-1/2 (38)	1-1/2 (38)	13 (4.0)	8 (2.4)	NA	NA	NA	NA
			2 (51)	2 (51)	57 (17.4)	52 (15.8)	50 (15.2)	45 (13.7)	44 (13.4)	43 (13.1)
	80,000	2 Pipe or 2-in Concentric	2 (51)	2 (51)	38 (11.6)	33 (10.1)	21 (6.4)	16 (4.9)	15 (4.6)	6 (1.8)
			2-1/2 (64)	2-1/2 (64)	70 (21.3)	70 (21.3)	68 (20.7)	67 (20.4)	66 (20.1)	64 (19.5)
	100,000	2 Pipe or 3-in Concentric	2-1/2 (64)	2-1/2 (64)	27 (8.2)	19 (5.8)	10 (3.0)	9 (2.7)	NA	NA
			3 (76)	3 (76)	68 (20.7)	63 (19.2)	58 (17.7)	53 (16.2)	48 (14.6)	43 (13.1)
	120,000	2 Pipe or 3-in. Concentric	3 (76)† no disk	NA	31 (9.4)	24 (7.3)	18 (5.5)	11 (3.4)	NA	NA
			NA	3 (76)†	49 (14.9)	48 (14.6)	47 (14.3)	45 (13.7)	44 (13.4)	43 (13.1)
			4 (102)† no disk	4 (102)† no disk	70 (21.3)	70 (21.3)	70 (21.3)	70 (21.3)	67 (20.4)	62 (18.8)
6001 to 7000† (1829 to 2134)	140,000	2 Pipe or 3-in. Concentric	4 (102)† no disk	NA	17 (5.1)	12 (3.6)	7 (2.1)	NA	NA	NA

See notes at end of table.

MAXIMUM ALLOWABLE PIPE LENGTH - FT (M)

ALTITUDE FT (M)	UNIT SIZE (BTUH)	DIRECT VENT (2-PIPE) ONLY		NON-DIRECT VENT (1-PIPE) ONLY	NUMBER OF 90° ELBOWS					
		TERMINATION TYPE	PIPE DIA IN. (mm)*	PIPE DIA IN. (mm)*	1	2	3	4	5	6
7001 to 8000‡ (2134 to 2438)	40,000	2 Pipe or 2-in Concentric	1-1/2 (38)	1-1/2 (38)	49 (14.9)	44 (13.4)	39 (11.9)	34 (10.4)	33 (10.1)	28 (6.5)
			2 (51)	2 (51)	66 (20.1)	65 (19.8)	63 (19.2)	62 (18.9)	60 (18.3)	59 (18.0)
	60,000	2 Pipe or 2-in Concentric	1-1/2 (38)	1-1/2 (38)	12 (3.7)	7 (2.1)	NA	NA	NA	NA
			2 (51)	2 (51)	53 (16.2)	48 (14.6)	46 (14.0)	41 (12.5)	40 (12.2)	38 (11.6)
	80,000	2 Pipe or 2-in Concentric	2 (51)	2 (51)	36 (11.0)	31 (9.4)	19 (5.8)	14 (4.3)	12 (3.7)	NA
			2-1/2 (64)	2-1/2 (64)	66 (20.1)	65 (19.8)	63 (19.2)	62 (18.9)	60 (18.3)	59 (18.0)
	100,000	2 Pipe or 3-in Concentric	2-1/2 (64)	2-1/2 (64)	25 (7.6)	17 (5.2)	8 (2.4)	7 (2.1)	NA	NA
			3 (76)	3 (76)	63 (19.2)	58 (17.7)	53 (16.2)	48 (14.6)	43 (13.1)	38 (11.6)
	120,000	2 Pipe or 3-in. Concentric	3 (76)† no disk	NA	20 (6.1)	13 (4.0)	7 (2.1)	NA	NA	NA
			NA	3 (76)†	46 (14.0)	44 (13.4)	43 (13.1)	41 (12.5)	40 (12.2)	38 (11.6)
			4 (102)† no disk	4 (102)† no disk	61 (18.6)	56 (17.1)	51 (15.5)	46 (14.0)	41 (12.5)	36 (11.0)
	140,000	NA								
ALTITUDE FT (M)	UNIT SIZE (BTUH)	DIRECT VENT (2-PIPE) ONLY		NON-DIRECT VENT (1-PIPE) ONLY	NUMBER OF 90° ELBOWS					
		TERMINATION TYPE	PIPE DIA IN. (mm)*	PIPE DIA IN. (mm)*	1	2	3	4	5	6
8001 to 9000‡ (2438 to 2743)	40,000	2 Pipe or 2-in Concentric	1-1/2 (38)	1-1/2 (38)	46 (14.0)	41 (12.5)	36 (11.0)	31 (9.4)	29 (8.8)	24 (7.3)
			2 (51)	2 (51)	62 (18.9)	60 (18.3)	58 (17.7)	56 (17.1)	55 (16.8)	53 (16.2)
	60,000	2 Pipe or 2-in Concentric	1-1/2 (38)	1-1/2 (38)	11 (3.4)	6 (1.8)	NA	NA	NA	NA
			2 (51)	2 (51)	49 (14.9)	44 (13.4)	42 (12.8)	37 (11.3)	35 (10.7)	34 (10.4)
	80,000	2 Pipe or 2-in Concentric	2 (51)	2 (51)	33 (10.1)	28 (8.5)	17 (5.2)	12 (3.7)	10 (3.0)	NA
			2-1/2 (64)	2-1/2 (64)	62 (18.9)	60 (18.3)	58 (17.7)	56 (17.1)	55 (16.8)	53 (16.2)
	100,000	2 Pipe or 3-in Concentric	2-1/2 (64)	2-1/2 (64)	23 (7.0)	15 (4.6)	7 (2.1)	5 (1.5)	NA	NA
			3 (76)	3 (76)	59 (18.0)	54 (16.5)	49 (14.9)	44 (13.4)	39 (11.9)	34 (10.4)
	120,000	2 Pipe or 3-in. Concentric	3 (76)† no disk	NA	10 (3.0)	NA	NA	NA	NA	NA
			NA	3 (76)†	43 (13.1)	41 (12.5)	39 (11.9)	37 (11.3)	35 (10.7)	34 (10.4)
			4 (102)† no disk	4† no disk	35 (10.7)	30 (9.1)	25 (7.6)	20 (6.1)	15 (4.6)	10 (3.0)
	140,000	NA								

See notes at end of table.

MAXIMUM ALLOWABLE PIPE LENGTH - FT (M)

ALTITUDE FT (M)	UNIT SIZE (BTUH)	DIRECT VENT (2-PIPE) ONLY		NON-DIRECT VENT (1-PIPE) ONLY	NUMBER OF 90° ELBOWS					
		TERMINATION TYPE	PIPE DIA IN. (mm)*	PIPE DIA IN. (mm)*	1	2	3	4	5	6
9001 to 10,000† (2743 to 3048)	40,000	2 Pipe or 2-in Concentric	1-1/2 (38)	1-1/2 (38)	42 (12.8)	37 (11.3)	32 (9.8)	27 (8.2)	25 (7.6)	20 (6.1)
			2 (51)	2 (51)	57 (17.4)	55 (16.8)	53 (16.2)	51 (15.5)	49 (14.9)	47 (14.3)
	60,000	2 Pipe or 2-in Concentric	2 (51)	2 (51)	45 (13.7)	40 (12.2)	38 (11.6)	33 (10.1)	31 (9.4)	29 (8.8)
	80,000	2 Pipe or 2-in Concentric	2 (51)	2 (51)	30 (9.1)	25 (7.6)	14 (4.3)	9 (2.7)	7 (2.1)	NA
			2-1/2 (64)	2-1/2 (64)	57 (17.4)	55 (16.8)	53 (16.2)	51 (15.5)	49 (14.9)	47 (14.3)
	100,000	2 Pipe or 3-in Concentric	2-1/2 (64)	2-1/2 (64)	21 (6.4)	13 (4.0)	5 (1.5)	NA	NA	NA
			3 (76)	3 (76)	54 (16.5)	49 (14.9)	44 (13.4)	39 (11.9)	34 (10.4)	29 (8.8)
	120,000	2 Pipe or 3-in. Concentric	NA	3 (76)†	39 (11.9)	37 (11.3)	35 (10.7)	33 (10.1)	31 (9.4)	29 (8.8)
			4 (102)† no disk	4 (102)† no disk	10 (3.0)	5 (1.5)	NA	NA	NA	NA
	140,000	NA								

* Disk usage-Unless otherwise specified, use perforated disk assembly (factory-supplied in loose parts bag).

If one disk is stated, separate 2 halves of perforated disk assembly and use shouldered disk half. When using shouldered disk half, install screen side toward inlet box.

† Wide radius elbow.

‡ Vent sizing for Canadian installations over 4500 ft. (1372 M) above sea level are subject to acceptance by the local authorities having jurisdiction.

NA-Not Allowed; pressure switch will not make.

1. Do not use pipe size greater than those specified in table or incomplete combustion, flame disturbance, or flame sense lockout may occur.
2. Size both the combustion-air and vent pipe independently, then use the larger diameter for both pipes.
3. Assume two 45° elbows equal one 90° elbow. Wide radius elbows are desirable and may be required in some cases.
4. Elbows and pipe sections within the furnace casing and at the vent termination should not be included in vent length or elbow count.
5. The minimum pipe length is 5 ft (1.5 M) for all applications.
6. Use 3-in. (76 mm) diameter vent termination kit for installations requiring 4-in (102 mm) diameter pipe.

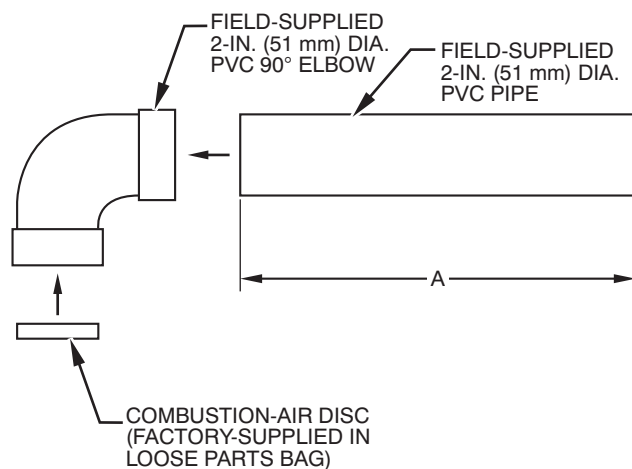
VENT LENGTH FOR OUTLET RESTRICTOR USAGE (60,000 BTU MODEL ONLY) FT (M)‡

ALTITUDE – FT (M)	UNIT SIZE	DIRECT VENT (2-PIPE)	NON- DIRECT VENT (1-PIPE ONLY)	NO. OF 90° ELBOWS				
		PIPE DIA. (IN / mm)	PIPE DIA. (IN / mm)	1	2	3	4	5
0 – 2000 (0 – 610)	60,000	2-in. (51)	2-in. (51)	28 (8.5)	20 (6)	15 (4.2)	10 (3)	
2001 – 3000 (610 – 914)*		2-in. (51)	2-in. (51)	24 (7.3)	17 (5.1)	12 (3.6)	7 (2.1)	
3001 – 4000 (914 – 1219)		2-in. (51)	2-in. (51)	21 (6.4)	13 (3.9)	8 (2.4)		
4001 – 5000 (1219 – 1524)		2-in. (51)	2-in. (51)	17 (5.1)	10 (3)	5 (1.5)		
5001 – 6000 (1524 – 1829)		2-in. (51)	2-in. (51)	14 (4.2)	6 (1.8)			
6001 – 7000 (1829 – 2134)		2-in. (51)	2-in. (51)	10 (3)				
7001 – 8000 (2134 – 2438)		2-in. (51)	2-in. (51)	6 (1.8)				
8001 – 9000 (2438 – 2743)		2-in. (51)	2-in. (51)					
9001 – 10000 (2743 – 3048)		2-in. (51)	2-in. (51)					

*Canada

‡Discard outlet restrictor if vent lengths or elbows exceed the above table. Discard restrictor if using 1 1/2-in. (38mm) diameter pipe. Refer to installation instructions for outlet restrictor installation guidelines.

COMBUSTION-AIR PIPE FOR NON-DIRECT VENT (1-PIPE) APPLICATIONS (SIZES 040 THROUGH 120 ONLY)

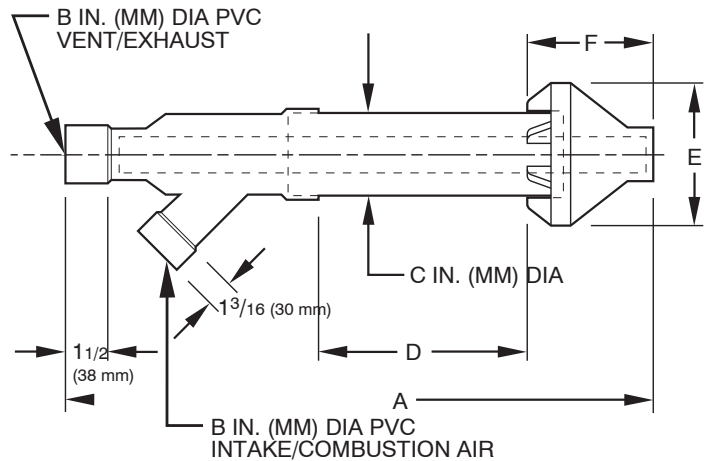


CASING WIDTH IN (mm)	A IN (mm)
17-1/2 (445)	8-1/2 ± 1/2 (216 ± 13)
21 (533)	10-1/2 ± 1/2 (267 ± 13)
24-1/2 (622)	12 ± 1/2 (305 ± 13)

A96211

PG9MAB

CONCENTRIC VENT FOR DIRECT-VENT (2-PIPE) APPLICATION (ALL MODEL SIZES)

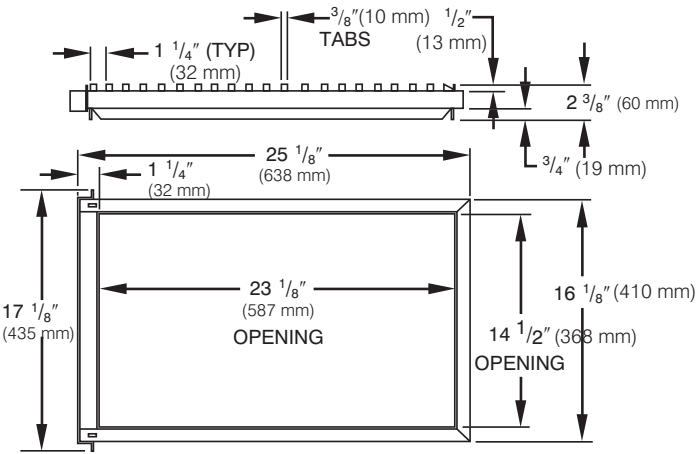


PART NO.	A*	B	C	D†	E	F
KGAVT0701CVT	33-3/8 (848)	2 (51)	3-1/2 (89)	16-5/8 (422)	6-1/4 (159)	5-3/4 (146)
KGAVT0801CVT	38-7/8 (987)	3 (76)	4-1/2 (114)	21-1/8 (537)	7-3/8 (187)	6-1/2 (165)

A97110

* Dimension A will change accordingly as dimension D is lengthened or shortened.
† Dimension D may be lengthened to 60 in. (1524 mm) maximum. Dimension D may also be shortened by cutting the pipes provided in the kit to 12 in. (305 mm) minimum.
NOTE: See furnace Installation Instructions when venting multiple furnaces near each other.

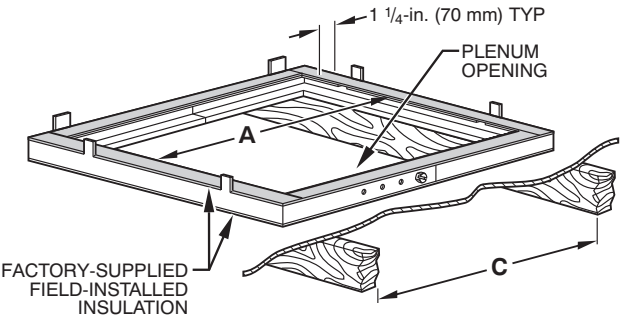
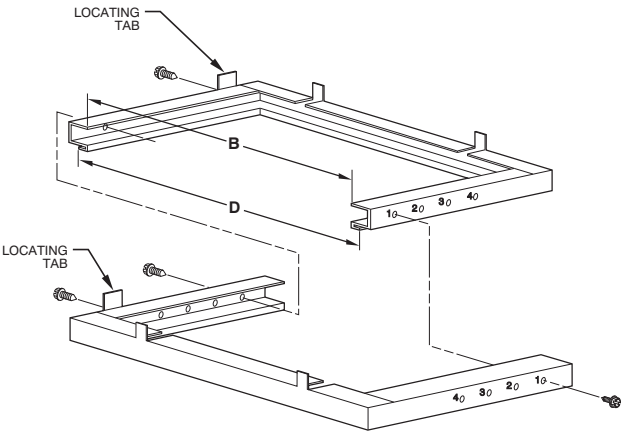
SIDE FILTER RACK



PG9MAB

A80199

ACCESSORY DOWNFLOW SUBBASE



Disassembled

A88207

Assembled

A97427

FURNACE CASING WIDTH IN (mm)	FURNACE IN DOWNFLOW APPLICATION	PLENUM OPENING* IN (MM)		FLOOR OPENING IN (MM)		HOLE NO. FOR WIDTH ADJUSTMENT
		A	B	C	D	
17-1/2 (445 mm)	Furnace with or without Cased Coil Assembly or Coil Box	15-1/8 (384 mm)	19 (483 mm)	16-3/4 (426 mm)	20-3/8 (518 mm)	3
21 (533 mm)	Furnace with or without Cased Coil Assembly or Coil Box	18-5/8 (473 mm)	19 (483 mm)	20-1/4 (514 mm)	20-3/8 (518 mm)	2
24-1/2 (622 mm)	Furnace with or without Cased Coil Assembly or Coil Box	22-1/8 (562 mm)	19 (483 mm)	23-3/4 (603 mm)	20-3/8 (518 mm)	1

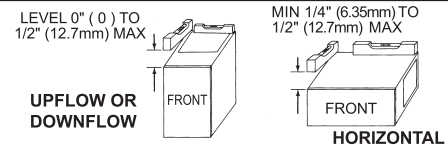
*The plenum should be constructed 1/4 in. (6 mm) smaller in width and depth than the plenum dimensions shown above.

INSTALLATION

- This forced air furnace is equipped for use with natural gas at altitudes 0 - 10,000 ft (0 - 3,050m), except 140 size furnaces are only approved for altitudes 0 - 7,000 ft (0 - 2,135m).
- An accessory kit, supplied by the manufacturer, shall be used to convert to propane gas use or may be required for some natural gas applications.
- This furnace is for indoor installation in a building constructed on site. This furnace may be installed in a manufactured (mobile) home when stated on rating plate and using factory authorized kit.
- This furnace may be installed on combustible flooring in alcove or closet at **Minimum Inches Clearance To Combustible Construction** as described below.
- This furnace requires a special venting system. Refer to the installation instructions for parts list and method of installation. In the US this furnace is for use with schedule-40 PVC, PVC-DWV, CPVC, or ABS-DWV pipe, and must not be vented in common with other gas-fired appliances. In Canada, refer to installation instructions for vent materials. Construction through which vent/air intake pipes may be installed is maximum 24 inches (610 mm), minimum 3/4 inches (19 mm) thickness (including roofing materials).
- Cette fournaise à air pulsé est équipée pour utilisation avec gaz naturel et altitudes comprises entre 0 - 3,050m (0 - 10,000 pi), excepté queles fournaises de 140 taille sont pour altitudes comprises entre 0 - 2,135m (0 - 7,000pi).
- Utiliser une trousse de conversion, fournie par le fabricant, pour passer au gaz propane ou pour certaines installations au gaz naturel.
- Cette fournaise à air pulsé est pour installation à l'intérieur dans un bâtiment construit sur place. Cette fournaise à air pulsé peut être installée dans une maison préfabriquée (maison mobile) si prescrit par la plaque signalétique et si l'on utilise une trousse spécifiée par le fabricant.
- Cette fournaise peut être installée sur un plancher combustible dans un enfoncement ou un placard en observant les **Dégagement Minimum En Pouces Avec Éléments De Construction Combustibles**.
- Cette fournaise nécessite un système d'évacuation spécial. La méthode d'installation et la liste des pièces nécessaires figurent dans les instructions d'installation. Aux Etats-Unis, cette fournaise doit s'utiliser avec la tuyauterie des nomenclatures 40 PVC, PVC-DWV, CPVC, ou ABS-DWV et elle ne peut pas être ventilée conjointement avec d'autres appareils à gaz. Au Canada, referer aux instructions d'installation pour les matériaux à ventiler. Épaisseur de la construction au travers de laquelle il est possible de faire passer les tuyaux d'aération (admission/évacuation): 24 po (610 mm) maximum, 3/4 po (19mm) minimum (y compris la toiture).

For upflow and downflow applications, furnace must be installed level, or pitched within 1/2" (12.7mm) of level. For a horizontal application, the furnace must be pitched minimum 1/4" (6.35mm) to maximum of 1/2" (12.7mm) forward for proper drainage. See Installation Manual for IMPORTANT unit support details on horizontal applications.

Pour des applications de flux ascendant et descendant, la fournaise doit être installée de niveau ou inclinée à pas plus de 1/2" (12.7mm) du niveau. Pour une application horizontale, la fournaise doit être inclinée entre minimum 1/4" (6.35mm) et maximum 1/2" (12.7mm) du niveau pour le drainage approprié. En cas d'installation en position horizontale, consulter les renseignements IMPORTANTS sur le support dans le manuel d'installation.



MINIMUM INCHES CLEARANCE TO COMBUSTIBLE CONSTRUCTION

ALL POSITIONS:

- * Minimum front clearance for service 24 inches (610mm).
- † 140 size furnaces require 1 inch back clearance to combustible materials.

DOWNFLOW POSITIONS:

- † For installation on combustible floors only when installed on special base No. KGASB0201ALL or NAHA01101SB, Coil Assembly, Part No. CAR, CAP, CNPV, CNRV or Coil Casing, Part No. KCAKC, or WENC or WTNC.

HORIZONTAL POSITIONS:

Line contact is permissible only between lines formed by intersections of top and two sides of furnace jacket, and building joists, studs, or framing.

- § Clearance shown is for air inlet and air outlet ends.
- Ø 120 and 140 size furnaces require 1 inch bottom clearance to combustible materials.

DÉGAGEMENT MINIMUM EN POUCES AVEC ÉLÉMENTS DE CONSTRUCTION COMBUSTIBLES

POUR TOUS LES POSITIONS:

- * Dégagement avant minimum de 24 po (610mm) pour l'entretien.
- † † Pour les fournaises de 140 taille, 1 po (25mm) dégagement des matériaux combustibles est requis au-arrière.

POUR LA POSITION COURANT DESCENDANT:

- † Pour l'installation sur le plancher combustible seulement quand on utilise la base spéciale, pièce n° KGASB0201ALL ou NAHA01101SB, l'ensemble serpentin, pièce n° CAR, CAP, CNPV, CNRV, ou le carter de serpentin, pièce n° KCAKC ou WENC ou WTNC.

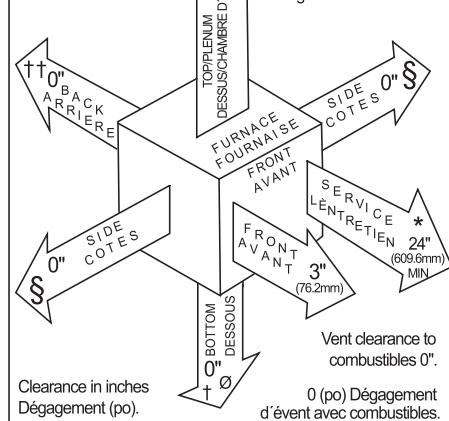
POUR LA POSITION HORIZONTALE:

- § Le contact n'est permis qu'entre les lignes formées par les intersections du dessus et des deux côtés de la chemise de la fournaise, et des solives, des montants ou de la charpente du bâtiment.
- § La distance indiquée concerne l'extrémité du tuyau d'arrivée d'air et l'extrémité du tuyau de sortie d'air.
- Ø Pour les fournaises de 120 et 140 taille, 1 po (25mm) dégagement des matériaux combustibles est requis au-dessous.

This furnace is approved for UPFLOW, DOWNFLOW and HORIZONTAL installations.

Cette fournaise est approuvée pour l'installation HORIZONTALE et la circulation d'air VERS LE HAUT et VERS LE BAS.

Clearance arrows do not change with furnace orientation. Les flèches de dégagement ne change pas avec l'orientation de la générateur d'air chaud.



335122-201 REV. B LIT TOP

AIR DELIVERY - CFM (WITH FILTER)*

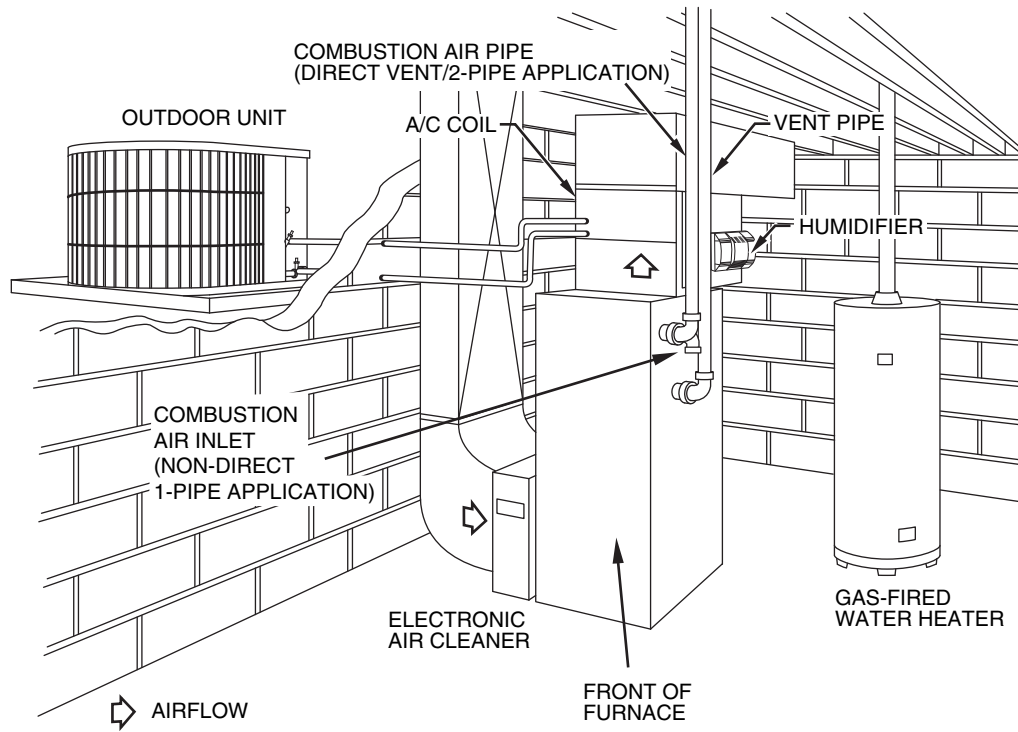
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UNIT SIZE	RETURN-AIR SUPPLY	SPEED	EXTERNAL STATIC PRESSURE (In. W.C.)							
			0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
024040	1 side or bottom	High	1075	1040	995	945	895	840	760	670
		Med-Low	850	825	780	740	685	635	560	480
		Low	740	700	650	620	565	515	455	385
036040	1 side or bottom	High	1470	1415	1400	1285	1215	1120	995	890
		Med-High	1315	1280	1235	1180	1115	1035	930	825
		Med-Low	1125	1110	1085	1045	990	915	830	740
		Low	930	925	910	850	830	770	705	635
024060	1 side or bottom	High	1100	1065	1005	945	900	805	730	610
		Med-Low	890	865	810	765	705	620	540	475
		Low	745	710	670	625	565	505	425	360
036060	1 side or bottom	High	1430	1375	1325	1275	1200	1135	1040	935
		Med-High	1270	1260	1215	1160	1105	1035	950	850
		Med-Low	1070	1055	1045	1015	975	920	850	750
		Low	915	895	885	865	840	800	720	650
048060	1 side or bottom	High	1700	1695	1640	1580	1545	1450	1380	1310
		Med-High	1500	1465	1435	1385	1355	1300	1250	1185
		Med-Low	1325	1295	1265	1230	1190	1150	1105	1050
		Low	1205	1170	1145	1110	1080	1035	990	950
036080	1 side or bottom	High	1535	1470	1405	1330	1245	1160	1065	935
		Med-High	1395	1350	1300	1225	1155	1080	985	880
		Med-Low	1200	1175	1125	1065	1030	970	890	780
		Low	1040	1020	990	960	910	860	785	680
048080	1 side or bottom	High	1750	1685	1635	1575	1525	1445	1380	1310
		Med-High	1495	1455	1405	1355	1305	1250	1185	1120
		Med-Low	1310	1260	1225	1170	1125	1095	1040	980
		Low	1135	1105	1075	1040	995	995	910	860
060080	1 side or bottom	High	2200	2175	2085	2025	1925	1820	1735	1635
		Med-High	2100	2025	1945	1865	1785	1700	1620	1540
		Med-Low	1815	1760	1720	1670	1620	1550	1480	1405
		Low	1560	1555	1515	1460	1435	1390	1340	1270
	both sides or 1 side and bottom	High	2360	2280	2210	2130	2035	1960	1875	1790
		Med-High	1965	1925	1870	1830	1760	1710	1670	1575
048100	1 side or bottom	High	1740	1705	1660	1615	1570	1500	1425	1355
		Med-High	1500	1470	1445	1410	1375	1330	1280	1210
		Med-Low	1340	1315	1300	1270	1235	1200	1140	1095
		Low	1195	1175	1165	1130	1100	1070	1030	975
060100	1 side or bottom	High	2250	2175	2090	2020	1930	1855	1760	1670
		Med-High	2020	1950	1900	1840	1790	1710	1640	1545
		Med-Low	1725	1690	1660	1630	1575	1520	1460	1370
		Low	1490	1480	1460	1440	1380	1340	1295	1230
	both sides or 1 side and bottom	High	2360	2315	2265	2200	2130	2055	1965	1890
		Med-High	1960	1940	1930	1900	1850	1800	1740	1660
060120	bottom only	High	2350	2250	2160	2070	2000	1885	1790	1635
		Med-High	2100	2015	1955	1875	1810	1710	1650	1540
		Med-Low	1770	1720	1675	1620	1575	1515	1450	1365
		Low	1545	1520	1465	1415	1365	1325	1265	1185
	both sides or 1 side and bottom	High	2435	2360	2285	2220	2130	2050	1965	1875
		Med-High	2040	2000	1950	1905	1835	1790	1725	1650
060140	1 side only	High	2255	2190	2115	2045	1965	1890	1800	1710
		Med-High	1985	1930	1890	1840	1780	1720	1645	1560
	bottom only	High	2285	2210	2140	2065	1990	1910	1830	1745
		Med-High	2020	1970	1920	1870	1805	1730	1660	1590
		Med-Low	1675	1650	1620	1590	1560	1510	1450	1390
		Low	1460	1445	1430	1400	1370	1320	1275	1230
	both sides or 1 side and bottom	High	2310	2255	2185	2120	2045	1965	1880	1800
		Med-High	1975	1945	1900	1860	1835	1775	1720	1640
	1 side only	High	2140	2080	2025	1945	1875	1795	1725	1625
		Med-High	1930	1850	1800	1740	1725	1660	1580	1495

* A filter is required for each return-air supply.

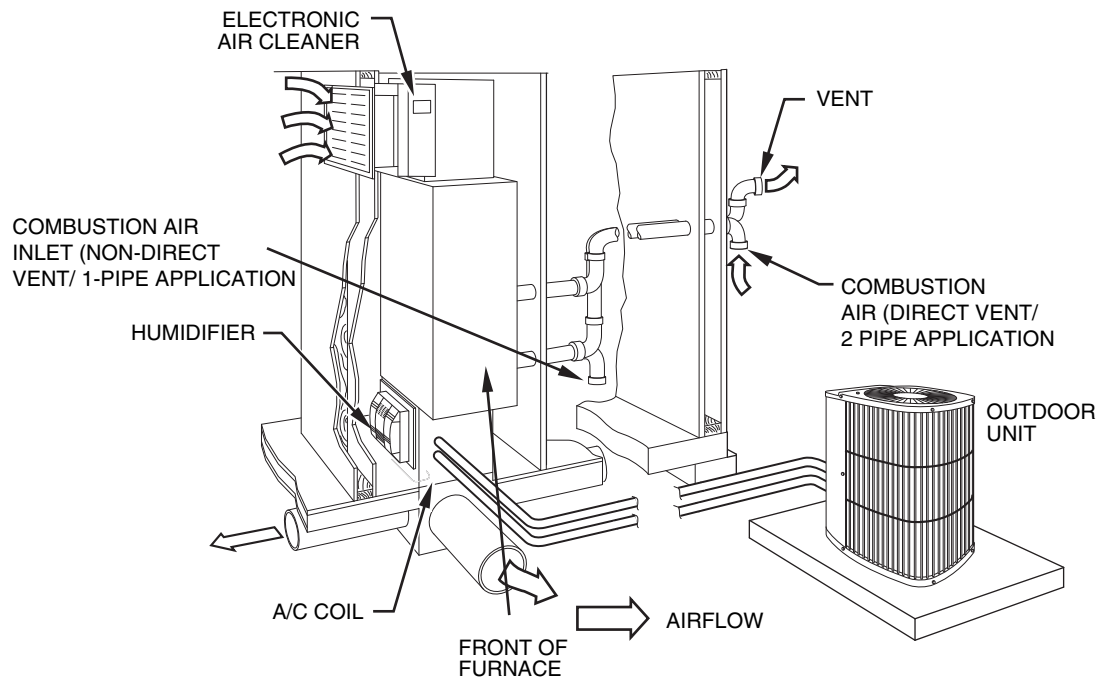
* For horizontal and downflow applications, use "1 side or bottom" or "bottom only" as airflow reference.

TYPICAL INSTALLATIONS



Basement - Upflow Application

A05064

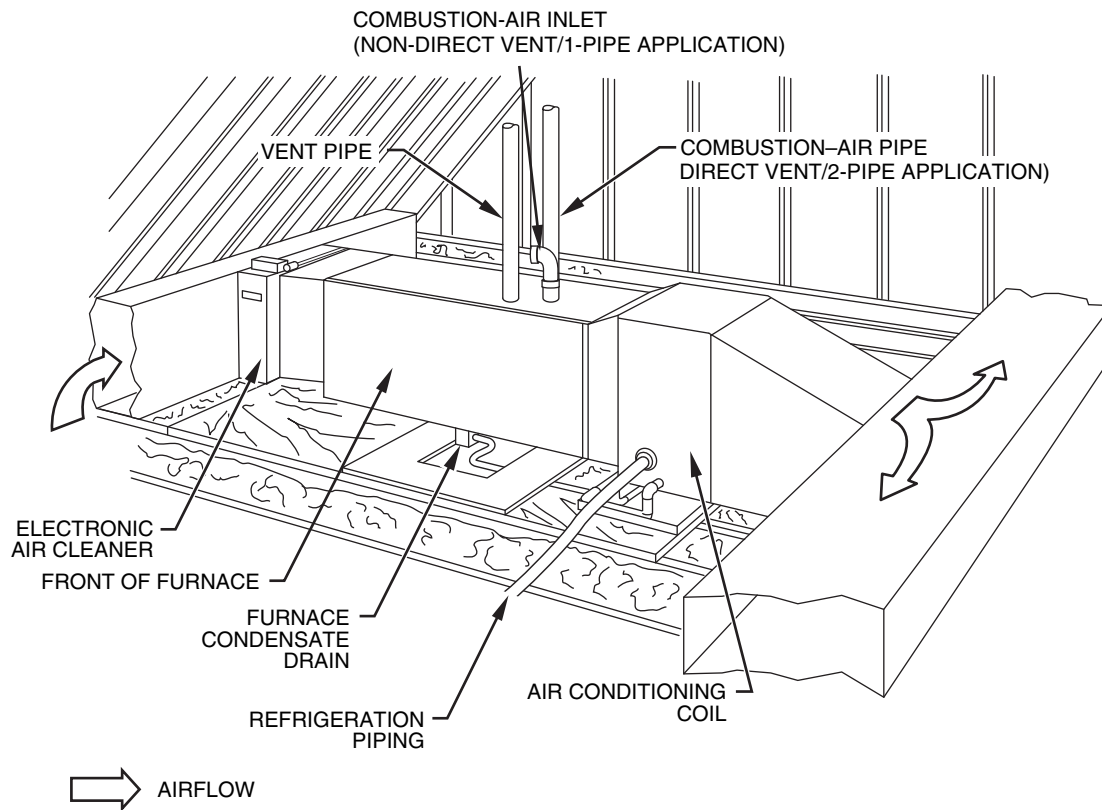


Closet - Downflow Application

A05065

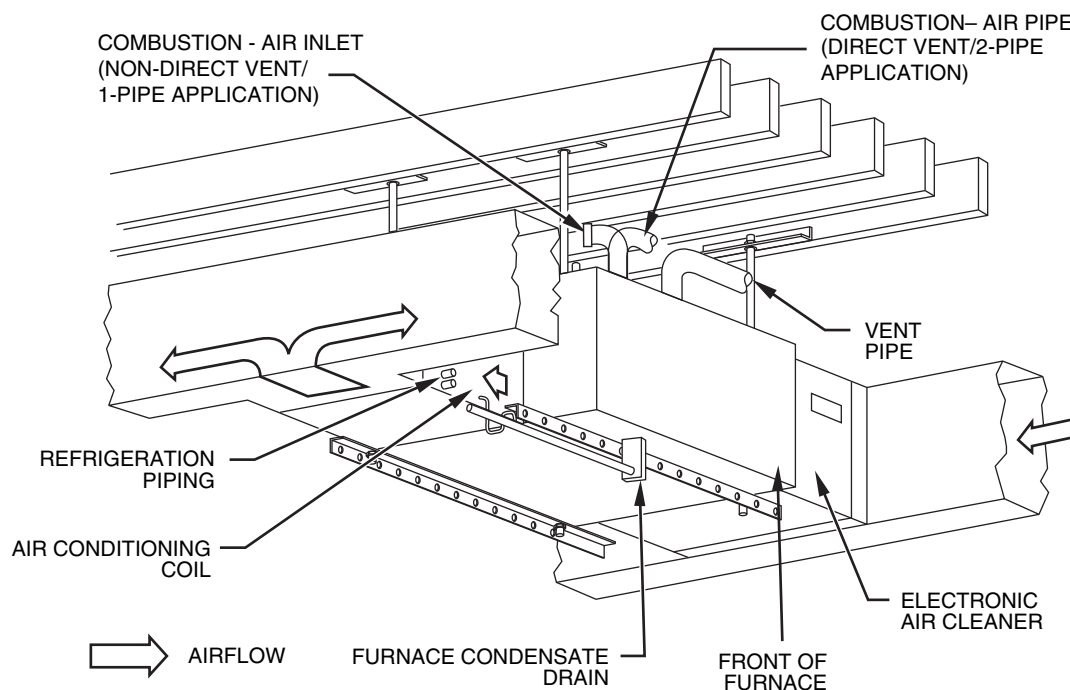
TYPICAL INSTALLATIONS (CONTINUED)

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A05066

Attic - Horizontal Application



A05067

Crawlspace - Horizontal Application