

FURNACE



BROCK

HEATING & COOLING



BROPG95ESAA

**CONDENSING
GAS FURNACE**

brockhvac.com



BROPG95ESAA

35-IN. (889 MM) CONDENSING GAS FURNACE

PRODUCT DATA

The BROPG95ESAA Multi-position Condensing Gas Furnace features a single-stage gas valve and a fixed-speeds, constant torque (FCT) ECM blower motor. With an Annual Fuel Utilization Efficiency (AFUE) of up to 96.0% AFUE, this furnace provides added savings over standard gas furnaces. It features 4-way Multi-position installation flexibility, and is available in ten model sizes. All sizes except the 26,000 BTUH model can be vented for direct vent/two-pipe, ventilated combustion air, or single-pipe applications. The 26,000 BTUH model can use the same 2-pipe venting system using outside air for combustion, but is not considered direct-vent. All sizes are design certified in Canada, and select sizes are certified for mobile/manufactured home use with conversion kit accessory.

PERFORMANCE

- Fixed-speeds, constant torque (FCT) ECM blower motor for electrically efficient operation all year long in heating, cooling and continuous fan operation.
- Single-speed inducer motor, and single-stage gas valve
- Silicon Nitride Hot Surface Igniter.
- Adjustable blower speed for heating and cooling.
- Aluminized-steel primary heat exchanger.
- Stainless-steel condensing secondary heat exchanger.

INSTALLATION FLEXIBILITY

- 4-way Multi-position design for upflow, downflow or horizontal installation, with unique vent elbow and optional through-the-cabinet downflow venting capability.
- Factory-configured ready for upflow applications.
- Ideal height 35" (889 mm) cabinet: short enough for taller coils, but still allows enough room for service.
- Two-pipe venting, single-pipe venting or ventilated combustion air.

APPLICATIONS

- Approved for Twinning applications with accessory kit.
- Approved for Manufactured Housing/Mobile Home applications with MH accessory kit.
- Convertible to propane with gas conversion accessory kit.

CERTIFICATIONS

- All sizes meet ENERGY STAR® Version 4.1 criteria for gas furnaces: 95%+ AFUE.
- 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.
- All sizes can be installed in air quality management districts with a 40 ng/J NOx emissions requirement



FEATURES AND BENEFITS

FURNACE	CASING DIMENSIONS (IN.)			RATED HEATING OUTPUT [†] BTUH	AFUE		ENERGY STAR [®]	HEATING AIRFLOW		COOLING CFM @ 0.5 ESP (in. W.C.)	MOTOR HP
	H	D	W		UPFLOW/ HORIZON- TAL	DOWN- FLOW		HEATING CFM [‡]	HEATING ESP (in. W.C.)		
BROPG95ESAA30026A	35	29.50	14.20	25,000	96.0%	95.0%	YES	605	0.10	895	1/3
BROPG95ESAA30040A	35	29.50	14.20	39,000	96.0%	95.0%	YES	695	0.10	950	1/2
BROPG95ESAA36040B	35	29.50	17.50	39,000	96.0%	95.0%	YES	650	0.10	1010	1/2
BROPG95ESAA36060A	35	29.50	14.20	58,000	95.0%	95.0%	YES	930	0.12	1120	1/2
BROPG95ESAA42060B	35	29.50	17.50	58,000	96.0%	95.0%	YES	1010	0.12	1330	3/4
BROPG95ESAA48080B	35	29.50	17.50	78,000	96.0%	95.0%	YES	1325	0.12	1665	3/4
BROPG95ESAA60080C	35	29.50	21.00	78,000	96.0%	95.0%	YES	1330	0.12	1855	1
BROPG95ESAA60100C	35	29.50	21.00	97,000	96.0%	95.0%	YES	1730	0.15	2125	1
BROPG95ESAA66120D	35	29.50	24.00	116,000	96.0%	95.0%	YES	2020	0.20	2105	1
BROPG95ESAA66140C	35	29.50	24.00	135,000	95.0%	95.0%	YES	2130	0.20	2310	1

[†] Capacity in accordance with DOE test procedures. Ratings are position dependent. See rating plate. [‡] Heating CFM at factory default blower motor heating tap settings.
ESP - External Static Pressure

Dual Fuel System — This system can provide more control over your monthly energy bills by automatically selecting the most economical method of heating. Our system automatically switches between the gas furnace and the electric heat pump as outside temperatures change to maintain greater efficiency and comfort than with any traditional single-source heating system. The heat pump also delivers high-efficiency cooling in the summer.

Robust Igniter — The unique SiN igniter is not only physically robust but it is also electrically robust. It is capable of running at line voltage and does not require complex voltage regulators as do other brands. This unique feature further enhances the gas furnace reliability and continues a tradition of technology leadership and innovation in providing a reliable and durable product.

ECM Blower Motor — This basic ECM, or electronically commutated motor, can provide an efficiency enhancement for select air conditioner or heat pump systems. It uses less electrical power than its PSC counterpart and has 5 speeds.

Reliable Heat Exchanger Design — The aluminized steel, clam shell primary heat exchanger has a crimped, no-weld seam create an efficient, robust design for this essential component. The condensing heat exchanger, a stainless steel fin and tube design, is positioned in the furnace to extract additional heat. Stainless steel coupling box componentry between heat exchangers has exceptional corrosion resistance in both natural gas and propane applications.

Media Filter Cabinet — Enhanced indoor air quality in the home is made easier with our media filter cabinet—accessory (purchased separately). When installed as a part of the system, this cabinet allows for easy and convenient addition of a high efficiency air filter.

4-Way Multipoise Design — One model for all applications—there is no need to stock special downflow or horizontal models when one unit will do it all.

Direct or Single-pipe Venting, or Optional Ventilated Combustion Air — All sizes except the 26,000 BTUH model can be vented for direct vent/two-pipe, ventilated combustion air, or single-pipe applications. The 26,000 BTUH model can use the same 2--pipe venting system using outside air for combustion, but is not considered direct--vent.

Sealed Combustion System — This furnace brings in combustion air from outside the furnace, which results in especially quiet operation. By sealing the entire combustion vestibule, the entire furnace can be made quieter, not just the burners.

Insulated Casing — Foil-faced insulation in the heat exchanger section of the casing minimizes heat loss.

Monoport Burners — The burners are specially designed and finely tuned for smooth, quiet combustion and economical operation.

Bottom Closure — Factory-installed for side return; easily removable for bottom return. The multi-use bottom closure can also serve for roll-out protection in horizontal applications, and act as the bottom closure for the optional return air base accessory.

Blower Access Panel Switch — Automatically shuts off 115-v power to furnace whenever blower access panel is opened.

Quality Registration — Our furnaces are engineered and manufactured under a quality management system registered to ISO 9001.

SPECIFICATIONS

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 12,000 BTUH or lower. Use 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.

Heating Capacity and Efficiency	30026A	30040A	36040B	36060A	42060B	48080B	60080C	60100C	66120D	66140D
Input (BTUh)	26,000	40,000	40,000	60,000	60,000	80,000	80,000	100,000	120,000	140,000
Output (BTUh)	25,000	39,000	39,000	58,000	58,000	78,000	78,000	97,000	117,000	135,000
Certified Temperature Rise Range °F (°C)	25 - 55 (14 - 31)	40 - 70 (22 - 39)	40 - 70 (22 - 39)	45 - 75 (25 - 42)	40 - 70 (22 - 39)	40 - 70 (22 - 39)	40 - 70 (22 - 39)	40 - 70 (22 - 39)	40 - 70 (22 - 39)	45 - 75 (25 - 42)

Airflow Capacity and Blower Data

Rated External Static Pressure (in. w.c.)	Heating	0.10	0.10	0.10	0.12	0.12	0.12	0.12	0.15	0.20	0.20
	Cooling	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Airflow Delivery @ Rated ESP (CFM)	Heating	605	695	650	930	1010	1325	1330	1730	2020	2130
	Cooling	895	950	1010	1120	1330	1665	1855	2125	2105	2310
Cooling Capacity (tons) @ CFM/ton	400 CFM/ton	2	2	2.5	2.5	3.5	4	5	5	5	5
	350 CFM/ton	2.50	2.50	3	3	4	4.50	5.50	6	6	6
Direct-Drive Motor Type	Electronically Commutated Motor (ECM)										
Direct-Drive Motor HP	1/3	1/2	1/2	1/2	3/4	3/4	1	1	1	1	
Motor Full Load Amps	4.4	6.3	6.8	6.3	8.8	9.2	11.5	11.7	11.5	11.7	
RPM Range	400 - 1200	600 - 2000	400 - 1200	600 - 2000	400 - 1200	400 - 1200	400 - 1200	400 - 1200	400 - 1200	400 - 1200	
Speed Selections	5	5	5	5	5	5	5	5	5	5	
Blower Wheel Dia x Width in.	11 x 7	11 x 7	11 x 8	11 x 7	11 x 8	11 x 8	11 x 10	11 x 10	11 x 11	11 x 11	
Air Filtration System	Field Supplied Filter										
Filter Used for Certified Watt Data	325531-40*										

Electrical Data

Input Voltage – Volts-Hertz Phase	115-60-1									
Operating Voltage Range – Min-Max	104-127									
Maximum Input Amps	5.1	7.0	7.5	7.1	9.6	10	12.3	12.6	12.4	12.6
Unit Ampacity Amps	7.3	9.7	10.3	9.8	12.9	13.4	16.3	16.7	16.4	16.7
Minimum Wire Size AWG	14	14	14	14	14	14	12	12	12	12
Maximum Wire Length@ Feet	50	38	36	38	28	27	35	34	35	34
Minimum Wire Size (M)	(15.5)	(11.7)	(10.9)	(11.5)	(8.7)	(8.4)	(10.7)	(10.5)	(10.7)	(10.5)
Maximum Fuse/Ckt Bkr Amps (Time-Delay Type Recommended)	15	15	15	15	15	15	20	20	20	20
Transformer Capacity (24vac output)	40 VA									
External Control Power Available	Heating					27.9 VA				
	Cooling					34.6 VA				

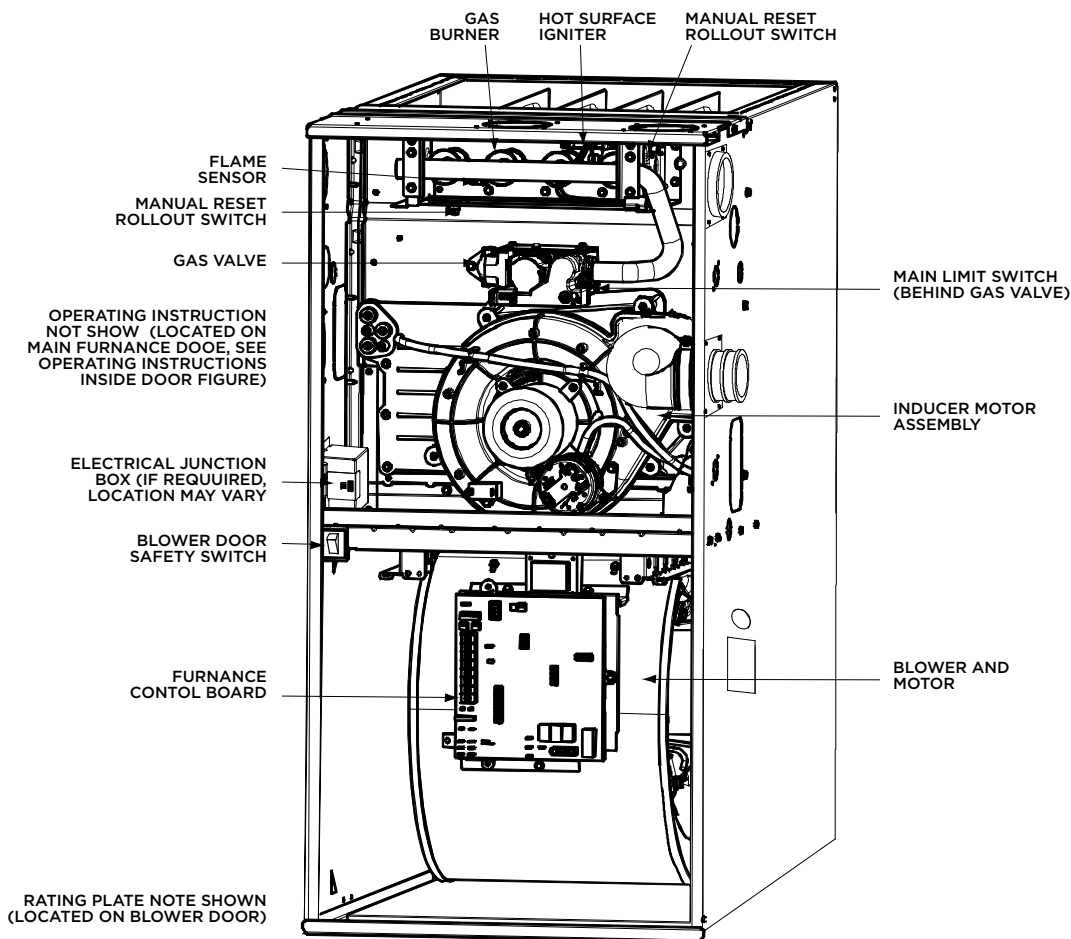
Controls

Gas Connection Size	1/2" - NPT									
Burners (Monoport)	2	2	2	3	3	4	4	5	6	7
Gas Valve (Redundant) Manufacturer	White Rodgers									
Minimum Inlet Gas pressure (in. wc)	4.50									
Maximum Inlet Gas pressure (in. wc)	13.60									
Manufactured (Mobile) Home Kit	See Accessory Listing									
Ignition Device	Silicon Nitride									
Heating Blower Control (Heating Off-Delay)	Adjustable: 90, 120, 150, 180 seconds									
Cooling Blower Control (Time Delay Relay)	90 seconds									
Communication System	None									
Thermostat Connections	Com 24V, R, W, G, Y									
Accessory Connections	EAC (115vac); HUM (24vac); 1-stg AC (via Y)									

MODEL NUMBER NOMENCLATURE

Product Family	Product	Base Effy.	Motor	Heating Stages	NOx Level	Major Series	Cooling Capacity	Heating Input (BTU/h)	Width	Minor Series
All products start with BRO	G = Gas Furnace	80 = 80% AFUE 92 = 92% AFUE 95 = 95% AFUE 96 = 96% AFUE 97 = 97% AFUE 98 = 98% AFUE	C = Comm. Variable-Speed Constant Airflow (VCA) ECM E = Fixed-Speeds Constant Torque (FCT) ECM V = Variable-Speed Constant Torque (VCT) 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 = 26,000 040 = 40,000 060 = 60,000 080 = 80,000	A = 14.2" B = 17.5" C = 21.0" D = 24.5"	A B C

FURNACE COMPONENTS



AIR DELIVERY - CFM (BOTTOM RETURN WITH FILTER)

UNIT SIZE	WIRE LEAD COLOR	SPEED TAPS ^{2,3} (Function)	EXTERNAL STATIC PRESSURE (IN.W.C.)									
			0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
30026A	Black	Cooling. Do not use for heating	1045	1010	975	935	895	855	810	760	715	670
	Yellow	Alt Cooling or alt Heating	820	770	730	680	630	585	530	480	435	385
	Orange	Alt Cooling or alt Heating	655	600	550	495	435	385	335	265	-	-
	Blue ⁷	Heating or alt Cooling	605	545	490	435	375	335	255	-	-	-
	Red ⁷	Alt Cooling. Do not use for heating	480	415	360	305	235	-	-	-	-	-
30040A	Gray	Cooling. Do not use for heating	1050	1025	1000	975	950	920	895	870	845	820
	Yellow	Alt Cooling. Do not use for heating	920	890	860	830	805	775	745	715	690	660
	Orange	Alt Cooling or alt Heating	735	700	665	630	595	555	525	490	450	415
	Blue	Heating or alt Cooling	695	660	625	590	555	515	480	445	405	370
	Red ⁷	Alt Cooling. Do not use for heating	540	495	455	410	365	320	280	235	-	-
36040B	Gray	Cooling. Do not use for heating	1180	1140	1100	1055	1010	960	915	860	805	735
	Yellow	Alt Cooling. Do not use for heating	880	845	810	780	745	710	675	640	600	570
	Blue	Heating or alt Cooling	650	610	560	515	470	435	395	360	325	265
	Orange ⁷	Alt Cooling. Do not use for heating	525	460	405	350	320	275	210	-	-	-
	Red ⁷	Alt Cooling. Do not use for heating	515	420	350	310	270	205	-	-	-	-
36060A	Gray	Cooling. Do not use for heating	1225	1200	1175	1145	1120	1095	1065	1040	1015	990
	Yellow	Alt Cooling. Do not use for heating	1105	1080	1050	1020	990	965	935	905	880	850
	Blue	Heating or alt Cooling	940	910	875	845	810	775	745	710	680	645
	Orange	Alt Cooling or alt Heating	725	690	650	610	570	530	490	445	405	365
	Red ⁷	Alt Cooling. Do not use for heating	545	495	445	395	345	295	245	-	-	-
42060B	Gray	Cooling. Do not use for heating	1475	1445	1405	1370	1330	1290	1255	1215	1175	1140
	Yellow	Alt Cooling or alt Heating	1230	1190	1155	1120	1085	1050	1005	970	925	885
	Orange	Alt Cooling or alt Heating	1070	1030	990	950	920	875	840	800	755	715
	Blue	Heating or alt Cooling	1020	975	940	900	860	820	775	740	690	650
	Red	Alt Cooling. Do not use for heating	700	590	535	485	460	390	340	300	275	210
48080B	Gray ^{5,6}	Cooling. Do not use for heating	1820	1790	1755	1710	1665	1620	1570	1525	1480	1435
	Yellow	Alt Cooling or alt Heating	1455	1420	1380	1345	1310	1275	1240	1205	1170	1135
	Blue	Heating or alt Cooling	1335	1295	1260	1220	1185	1150	1110	1075	1040	1005
	Orange	Alt Cooling or alt Heating	1110	1065	1020	980	935	895	850	810	770	725
	Red ⁷	Alt Cooling. Do not use for heating	425	335	240	-	-	-	-	-	-	-
60080C	Gray ^{5,6}	Cooling. Do not use for heating	2045	1995	1950	1900	1855	1805	1760	1710	1660	1615
	Yellow	Alt Cooling. Do not use for heating	1665	1625	1575	1530	1480	1435	1385	1340	1285	1240
	Orange	Alt Cooling or alt Heating	1475	1420	1370	1320	1270	1220	1170	1125	1070	1025
	Blue	Heating or alt Cooling	1345	1290	1235	1180	1130	1080	1025	975	935	885
	Red	Alt Cooling. Do not use for heating	1155	1080	1015	960	895	845	790	735	675	620
60100C	Gray ^{5,6}	Cooling. Do not use for heating	2280	2240	2200	2165	2125	2085	2020	1910	1795	1665
	Yellow ^{5,6}	Alt Cooling. Do not use for heating	1860	1815	1775	1730	1690	1645	1605	1560	1515	1465
	Blue	Heating or alt Cooling	1755	1710	1665	1620	1580	1535	1485	1440	1390	1340
	Orange	Alt Cooling or alt Heating	1530	1480	1425	1380	1325	1275	1215	1160	1110	1060
	Red	Cooling. Do not use for heating	1340	1285	1230	1170	1110	1050	990	930	875	820
66120D	Gray ^{5,6}	Cooling. Do not use for heating	2310	2255	2205	2155	2105	2055	2005	1955	1910	1885
	Blue ^{5,6}	Heating or alt Cooling	2065	2020	1970	1915	1860	1805	1740	1690	1635	1580
	Yellow ^{5,6}	Alt Cooling or alt Heating	1850	1800	1745	1690	1640	1585	1530	1475	1420	1360
	Orange	Alt Cooling. Do not use for heating	1500	1440	1380	1320	1260	1205	1145	1085	1035	955
	Red	Alt Cooling. Do not use for heating	1070	960	875	805	710	630	560	490	420	355
66140D	Gray ^{5,6}	Cooling. Do not use for heating	2505	2465	2425	2370	2310	2250	2180	2090	1955	1810
	Blue ^{5,6}	Heating or alt Cooling	2180	2130	2085	2035	1990	1945	1900	1850	1800	1755
	Yellow ^{5,6}	Alt Cooling or alt Heating	1910	1855	1810	1760	1705	1655	1605	1555	1505	1460
	Orange	Alt Cooling. Do not use for heating	1560	1505	1445	1380	1325	1265	1210	1155	1100	1040
	Red ⁷	Alt Cooling. Do not use for heating	855	760	665	565	470	385	305	-	-	-

NOTE: 1. A filter is required for each return-air inlet. Airflow performance includes a 3/4-in. (19 mm) washable filter media (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 SPEED TAPS AS NECESSARY FOR THE PROPER AIR TEMPERATURE RISE FOR EACH INSTALLATION. 3. The "Function" column identifies which speed taps can be used for heating. 4. If the same motor speed tap is needed for heating and cooling, a Jumper Wire accessory kit is available, see Product Data accessories for the current. Jumper Wire accessory part number. Reference the "Start-up, Adjustments, and Safety Check" section of installation instructions for further Jumper Wire instructions. 5. 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. 6. 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. 7. The "-" entry indicates an unstable operating condition.

MAXIMUM ALLOWABLE EXPOSED VENT LENGTH IN UNCONDITIONED SPACE

Unit Size - 26,000* BTUH

LENGTH IN FEET

	Pipe Dia. in.	Uninsulated		3/8" Insulation		1/2" Insulation	
		1-1/2	2	1-1/2	2	1-1/2	2
Winter	20	20	20	50	45	60	50
Design	0	5	5	25	20	30	25
Temp	-20	-	-	15	10	20	15
° F	-40	-	-	10	5	15	10

Unit Size - 40,000* BTUH

	Pipe Dia. in.	Uninsulated			3/8-in. Insulation			1/2-in. Insulation		
		1-1/2	2	2-1/2	1-1/2	2	2-1/2	1-1/2	2	2-1/2
Winter	20	20	20	20	20	50	45	20	60	50
Design	0	10	5	5	20	25	20	20	30	25
Temp	-20	5	-	-	20	15	10	20	20	15
° F	-40	-	-	-	15	10	5	15	15	10

Unit Size - 60,000 BTUH

	Pipe Dia. in.	Uninsulated				3/8-in. Insulation				1/2-in. Insulation			
		1-1/2	2	2-1/2	3	1-1/2	2	2-1/2	3	1-1/2	2	2-1/2	3
Winter	20	20	30	30	25	20	75	65	60	20	85	75	65
Design	0	15	15	10	10	20	40	30	25	20	45	40	30
Temp	-20	10	5	-	-	20	25	20	15	20	30	25	20
° F	-40	5	-	-	-	20	15	15	10	20	20	15	10

Unit Size - 80,000 BTUH

	Pipe Dia. in.	Uninsulated					3/8-in. Insulation					1/2-in. Insulation				
		1-1/2	2	2-1/2	3	4	1-1/2	2	2-1/2	3	4	1-1/2	2	2-1/2	3	4
Winter	20	15	40	40	35	30	15	50	90	75	65	15	50	70	70	70
Design	0	15	20	15	10	5	15	50	45	35	30	15	50	50	40	35
Temp	-20	15	10	5	-	-	15	35	30	20	15	15	40	30	25	15
° F	-40	10	5	-	-	-	15	25	20	15	5	15	30	25	20	10

Unit Size 100,000 BTUH

	Pipe Dia. in.	Uninsulated				3/8-in. Insulation				1/2-in. Insulation			
		2	2-1/2	3	4	2	2-1/2	3	4	2	2-1/2	3	4
Winter	20	20	50	40	35	20	80	95	80	20	80	105	90
Design	0	20	20	15	10	20	55	45	35	20	65	55	45
Temp	-20	15	10	5	-	20	35	30	20	20	45	35	25
° F	-40	10	5	-	-	20	25	20	10	20	30	25	15

Unit Size - 120,000 BTUH

	Pipe Dia. in.	Uninsulated			3/8-in. Insulation			1/2-in. Insulation		
		2-1/2	3	4	2-1/2	3	4	2-1/2	3	4
Winter	20	10	50	40	10	75	95	10	75	105
Design	0	10	20	15	10	55	45	10	65	50
Temp	-20	10	10	-	10	35	25	10	45	30
° F	-40	10	5	-	10	25	15	10	30	20

Unit Size - 140,000* BTUH

	Pipe Dia. in.	Uninsulated			3/8-in. Insulation			1/2-in. Insulation		
		2-1/2	3	4	2-1/2	3	4	2-1/2	3	4
Winter	20	5	55	50	5	65	105	5	65	125
Design	0	5	25	15	5	65	50	5	65	60
Temp	-20	5	10	5	5	45	30	5	50	40
° F	-40	5	5	-	5	30	20	5	35	25

* Not all model families have these sizes

MAXIMUM ALLOWABLE EXPOSED VENT LENGTH IN UNCONDITIONED SPACE

Unit Size - 26,000* BTUH

LENGTH IN METERS

	Pipe Dia. mm	0" Insulation		3/8" Insulation		1/2" Insulation	
		38	51	38	51	38	51
Winter	-7	6.1	6.1	15.2	13.7	18.3	15.2
Design	-18	1.5	1.5	7.6	6.1	9.1	7.6
Temp	-29	-	-	4.6	3.0	6.1	4.6
° C	-40	-	-	3.0	1.5	4.6	3.0

Unit Size - 40,000* BTUH

	Pipe Dia. mm	Uninsulated			3/8-in. Insulation			1/2-in. Insulation		
		38	51	64	38	51	64	38	51	64
Winter	-7	6.1	6.1	6.1	6.1	15.2	13.7	6.1	18.3	15.2
Design	-18	3.0	1.5	1.5	6.1	7.6	6.1	6.1	9.1	7.6
Temp	-29	1.5	-	-	6.1	4.6	3.0	6.1	6.1	4.6
° C	-40	-	-	-	4.6	3.0	1.5	4.6	4.6	3.0

Unit Size - 60,000 BTUH

	Pipe Dia. mm	Uninsulated				3/8-in. Insulation				1/2-in. Insulation			
		38	51	64	76	38	51	64	76	38	51	64	76
Winter	-7	6.1	9.1	9.1	7.6	6.1	22.9	19.8	18.3	6.1	25.9	22.9	19.8
Design	-18	4.6	4.6	3.0	3.0	6.1	12.2	9.1	7.6	6.1	13.7	12.2	9.1
Temp	-29	3.0	1.5	-	-	6.1	7.6	6.1	4.6	6.1	9.1	7.6	6.1
° C	-40	1.5	-	-	-	6.1	4.6	4.6	3.0	6.1	6.1	4.6	3.0

Unit Size - 80,000 BTUH

	Pipe Dia. mm	Uninsulated					3/8-in. Insulation					1/2-in. Insulation				
		38	51	64	76	102	38	51	64	76	102	38	51	64	76	102
Winter	-7	4.6	12.2	12.2	10.7	9.1	4.6	15.2	27.4	22.9	19.8	4.6	15.2	21.3	21.3	21.3
Design	-18	4.6	6.1	4.6	3.0	1.5	4.6	15.2	13.7	10.7	9.1	4.6	15.2	15.2	12.2	10.7
Temp	-29	4.6	3.0	1.5	-	-	4.6	10.7	9.1	6.1	4.6	4.6	12.2	9.1	7.6	4.6
° C	-40	3.0	1.5	-	-	-	4.6	7.6	6.1	4.6	1.5	4.6	9.1	7.6	6.1	3.0

Unit Size 100,000 BTUH

	Pipe Dia. mm	Uninsulated				3/8-in. Insulation				1/2-in. Insulation			
		51	64	76	102	51	64	76	102	51	64	76	102
Winter	-7	6.1	15.2	12.2	10.7	6.1	24.4	28.9	24.4	6.1	24.4	32.0	27.4
Design	-18	6.1	6.1	4.6	3.0	6.1	16.8	13.7	10.7	6.1	19.8	16.7	13.7
Temp	-29	4.6	3.0	1.5	-	6.1	10.7	9.1	6.1	6.1	13.7	10.7	7.6
° C	-40	3.0	1.5	-	-	6.1	7.6	6.1	3.0	6.1	9.1	7.6	4.6

Unit Size - 120,000 BTUH

	Pipe Dia. mm	Uninsulated			3/8-in. Insulation			1/2-in. Insulation		
		64	76	102	64	76	102	64	76	102
Winter	-7	3.0	15.2	12.2	3.0	22.9	28.9	3.0	22.9	32.0
Design	-18	3.0	6.1	4.6	3.0	16.8	13.7	3.0	19.8	15.2
Temp	-29	3.0	3.0	-	3.0	10.7	7.6	3.0	13.7	9.1
° C	-40	3.0	1.5	-	3.0	7.6	4.6	3.0	9.1	6.1

Unit Size - 140,000* BTUH

	Pipe Dia. mm	Uninsulated			3/8-in. Insulation			1/2-in. Insulation		
		64	76	102	64	76	102	64	76	102
Winter	-7	1.5	16.7	15.2	1.5	19.8	32.0	1.5	19.8	38.1
Design	-18	1.5	7.6	4.6	1.5	19.8	15.2	1.5	19.8	18.3
Temp	-29	1.5	3.0	1.5	1.5	13.7	9.1	1.5	15.2	12.2
° C	-40	1.5	1.5	-	1.5	9.1	6.1	1.5	35	7.6

* Not all model families have these sizes

MAXIMUM EQUIVALENT VENT LENGTH - FT. (M)

Table 1 – Maximum Equivalent Vent Length

NOTE: Maximum Equivalent Vent Length (MEVL) includes standard and concentric vent termination and does NOT

include elbows. Use Table 2 - Deductions from Maximum Equivalent Vent Length to determine allowable vent length for each application.

Maximum Equivalent Vent Length – Feet

Unit Size	Pipe Dia. (in)	26,000 ²			40,000 ¹			60,000 ²				80,000				100,000				120,000 ³			140,000 ³			
		1-1/2	2		1-1/2	2	2-1/2	1-1/2	2	2-1/2	3	1-1/2	2	2-1/2	3	4	2	2-1/2	3	4	2-1/2	3	4	2-1/2	3	4
Altitude (feet)	0-2000	70	200		40	155	185	20	100	175	200	15	55	130	175	200	20	80	175	200	10	75	185	5	65	155
	2001-3000	65	190		35	150	175	20	95	165	185	10	49	125	165	185	15	75	165	185	10	70	175	N/A	60	140
	3001-4000	60	175		30	135	160	16	90	155	175	10	49	115	155	175	15	75	155	175	5	65	165	N/A	60	120
	4001-4500	55	160		25	130	155	15	85	150	170	10	44	110	150	165	10	70	155	170	N/A	60	160	N/A	50	110
	4501-5000	55	160		25	125	145	15	80	145	165	10	44	110	145	160	10	65	150	165	N/A	60	160	N/A	45	100
	5001-6000	50	145		20	120	130	15	75	140	155	10	41	100	135	150	10	65	140	155	N/A	60	155	N/A	35	80
	6001-7000	45	135		15	110	120	13	70	130	145	N/A	38	90	125	140	10	60	135	145	N/A	50	140	N/A	30	65
	7001-8000	40	120		10	100	110	10	65	120	135	N/A	36	90	120	125	N/A	55	125	135	N/A	46	130	N/A	25	45
	8001-9000	35	110		10	90	95	5	60	115	125	N/A	33	80	110	115	N/A	50	115	125	N/A	43	120	N/A	15	30
	9001-10000	30	95		5	80	85	N/A	55	105	115	N/A	30	75	100	105	N/A	45	100	115	N/A	39	115	N/A	10	15

Maximum Equivalent Vent Length – Meters

Unit Size	Pipe Dia. (mm)	26,000 ²		40,000 ¹			60,000 ²				80,000					100,000				120,000 ³			140,000 ³		
		38	51	38	51	64	38	51	64	76	38	51	64	76	102	51	64	76	102	64	76	102	64	76	102
Altitude (meters)	0-610	21.3	60.9	12.1	47.2	56.3	6.0	30.4	53.3	60.9	4.5	16.7	39.6	53.3	60.9	6.0	24.3	53.3	60.9	3.0	22.8	56.3	1.5	19.8	47.2
	611-914	19.8	57.9	10.6	45.7	53.3	6.0	28.9	50.2	56.3	3.0	14.9	38.1	50.2	56.3	4.5	22.8	50.2	56.3	3.0	21.3	53.3	N/A	18.2	42.6
	915-1219	18.2	53.3	9.1	41.1	48.7	4.8	27.4	47.2	53.3	3.0	14.9	35.0	47.2	53.3	4.5	22.8	47.2	53.3	1.5	19.8	50.2	N/A	18.2	36.5
	1220-1370	16.7	48.7	7.6	39.6	47.2	4.5	25.9	45.7	51.8	3.0	13.4	33.5	45.7	50.2	3.0	21.3	47.2	51.8	N/A	18.2	48.7	N/A	15.2	33.5
	1371-1524	16.7	48.7	7.6	38.1	44.1	4.5	24.3	44.1	50.2	3.0	13.4	33.5	44.1	48.7	3.0	19.8	45.7	50.2	N/A	18.2	48.7	N/A	13.7	30.4
	1525-1829	15.2	44.1	6.0	36.5	39.6	4.5	22.8	42.6	47.2	3.0	12.4	30.4	41.1	45.7	3.0	19.8	42.6	47.2	N/A	18.2	47.2	N/A	10.6	24.3
	1830-2134	13.7	41.1	4.5	33.5	36.5	3.9	21.3	39.6	44.1	N/A	11.5	27.4	38.1	42.6	3.0	18.2	41.1	44.1	N/A	15.2	42.6	N/A	9.1	19.8
	2135-2438	12.1	36.5	3.0	30.4	33.5	3.0	19.8	36.5	41.1	N/A	10.9	27.4	36.5	38.1	N/A	16.7	38.1	41.1	N/A	14.0	39.6	N/A	7.6	13.7
	2439-2743	10.6	33.5	3.0	27.4	28.9	1.5	18.2	35.0	38.1	N/A	10.0	24.3	33.5	35.0	N/A	15.2	35.0	38.1	N/A	13.1	36.5	N/A	4.5	9.1
	2744-3048	9.1	28.9	1.5	24.3	25.9	N/A	16.7	32.0	35.0	N/A	9.1	22.8	30.4	32.0	N/A	13.7	30.4	35.0	N/A	11.8	35.0	N/A	3.0	4.5

NOTES:

- 40K Inducer Outlet Restrictor disk (P/N 337683-401; 1.25-in. (32 mm) Dia.) shipped in the loose parts bag or available through Replacement Components required under 10-ft. (3 M) TEVL in all orientations. Required for installations from 0-2000 ft. (0 to 610 M) above sea level. Failure to use an outlet restrictor may result in flame disturbances or flame sense lock-out.
- 26K (shipped in loose parts bag) & 60K Inducer Outlet Restrictor disk (P/N 337683-401; 1.25-in. (32 mm) Dia. available through Replacement Components) required for less than 5-ft. (1.5 M) TEVL in downflow and horizontal orientations only. Required for installations from 0-2000 ft. (0 to 610 M) above sea level.
- 120K & 140K Inducer Outlet Restrictor disk (P/N 337683-402; 1.50-in. (38 mm) Dia. available through Replacement Components) required for less than 5-ft. (1.5 M) TEVL in downflow and horizontal orientations only. Required for installations from 0-2000 ft. (0 to 610 M) above sea level.

MAXIMUM EQUIVALENT VENT LENGTH - FT. (M)

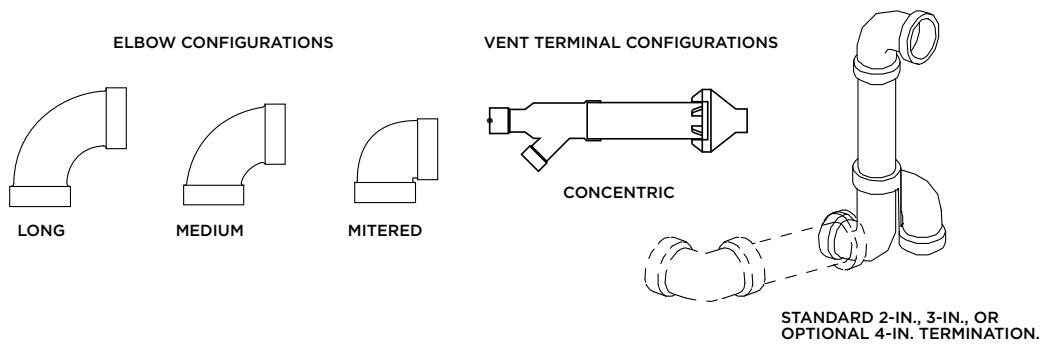


Table 2 - Deductions from Maximum Equivalent Vent Length - Ft. (M)

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	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	N/A	N/A	0	(0.0)	N/A	N/A	0	(0.0)	N/A	N/A
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 switch 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 Table 2. 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 Table 1.

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 Table 2
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 Table 2
Add equiv length of factory concentric vent term					0 ft.	From Table 2
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 Table 1
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)	

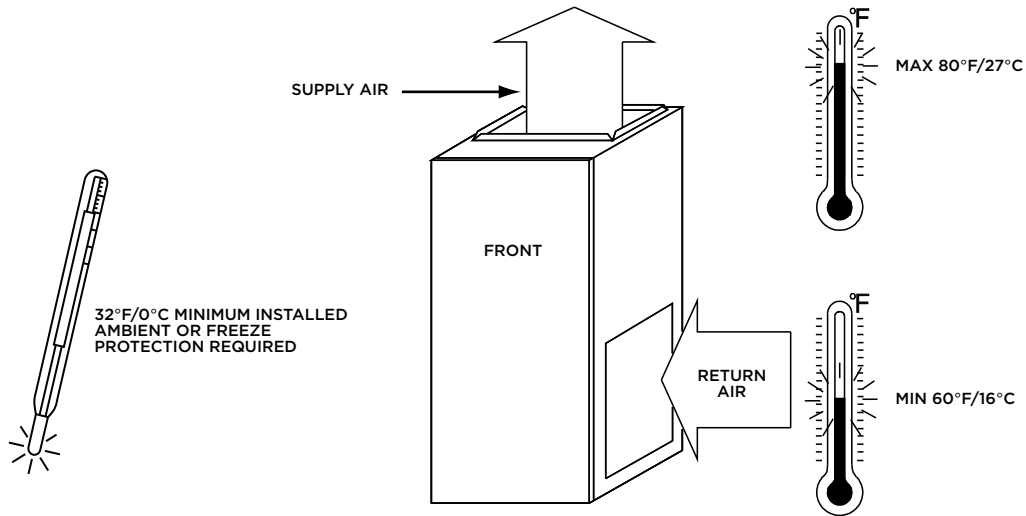
* VERIFY FROM VENT MANUFACTURER'S INSTRUCTIONS; For example only, assume 1 meter of flexible 60mm (2") or 80mm (3") polypropylene pipe equals 2.0 meters (6.5 ft.) of PVC/ABS pipe.

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 Table 2
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 Table 2
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.

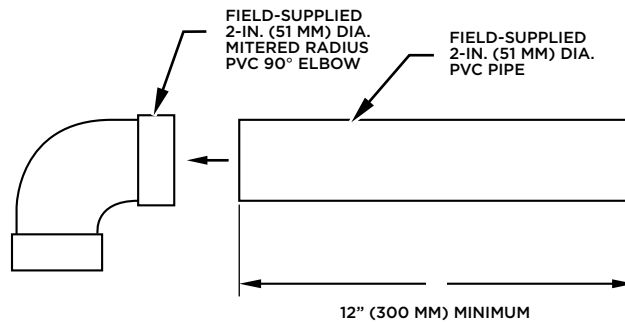


MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS

POSITION	CLEARANCE
Rear	0 (0 mm)
Front (Combustion air openings in furnace and in structure)	1 in. (25 mm)
Required for service**	24 in. (610 mm)*
All Sides of Supply Plenum**	1 in. (25 mm)
Sides	0 (0 mm)
Vent	0 (0 mm)
Top of Furnace	1 in. (25 mm)

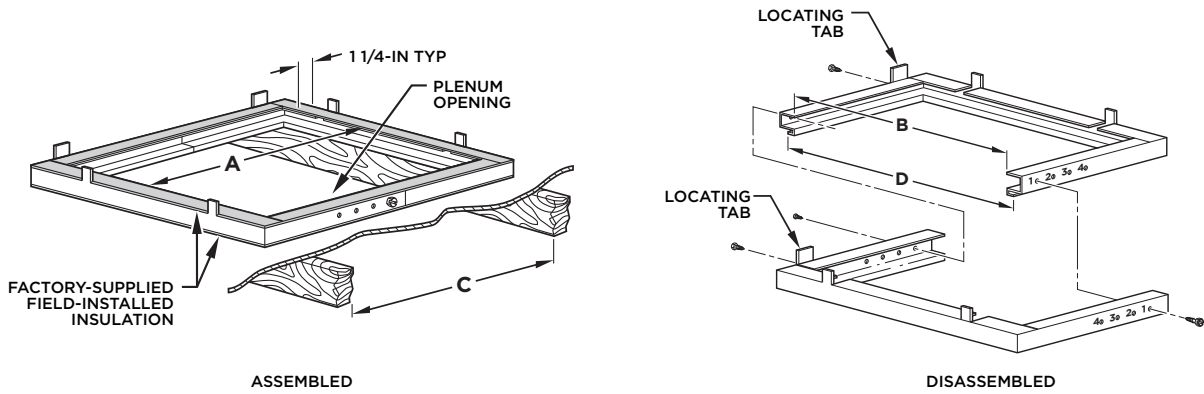
* Recommended **Consult your local building codes

COMBUSTION-AIR PIPE FOR NON-DIRECT (1-PIPE) VENT APPLICATION



Note: See installation instructions for specific venting configurations.

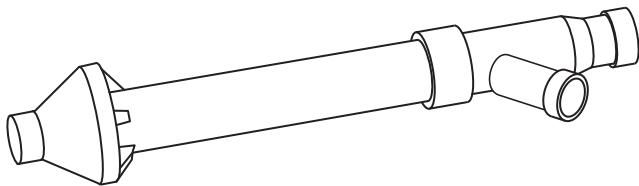
DOWNFLOW SUBBASE



DIMENSIONS (IN. / MM)

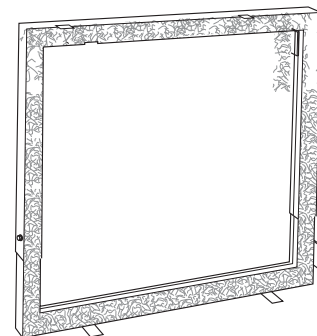
FURNACE CASING WIDTH	FURNACE IN DOWNFLOW APPLICATION	PLENUM OPENING*		FLOOR OPENING		HOLE NO. FOR WIDTH ADJUSTMENT
		A	B	C	D	
14-3/16 (360)	Furnace with or without Cased Coil Assembly or Coil Box	11-3/16 (322)	19 (483)	13-7/16 (341)	20-5/8 (600)	4
17-1/2 (445)	Furnace with or without Cased Coil Assembly or Coil Box	15-1/8 (384)	19 (483)	16-3/4 (426)	20-5/8 (600)	3
21 (533)	Furnace with or without Cased Coil Assembly or Coil Box	18-5/8 (396)	19 (483)	20-1/4 (514)	20-5/8 (600)	2
24-1/2 (622)	Furnace with or without Cased Coil Assembly or Coil Box	22-1/8 (562)	19 (483)	23-3/4 (603)	20-5/8 (600)	1

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



Concentric Vent Kit

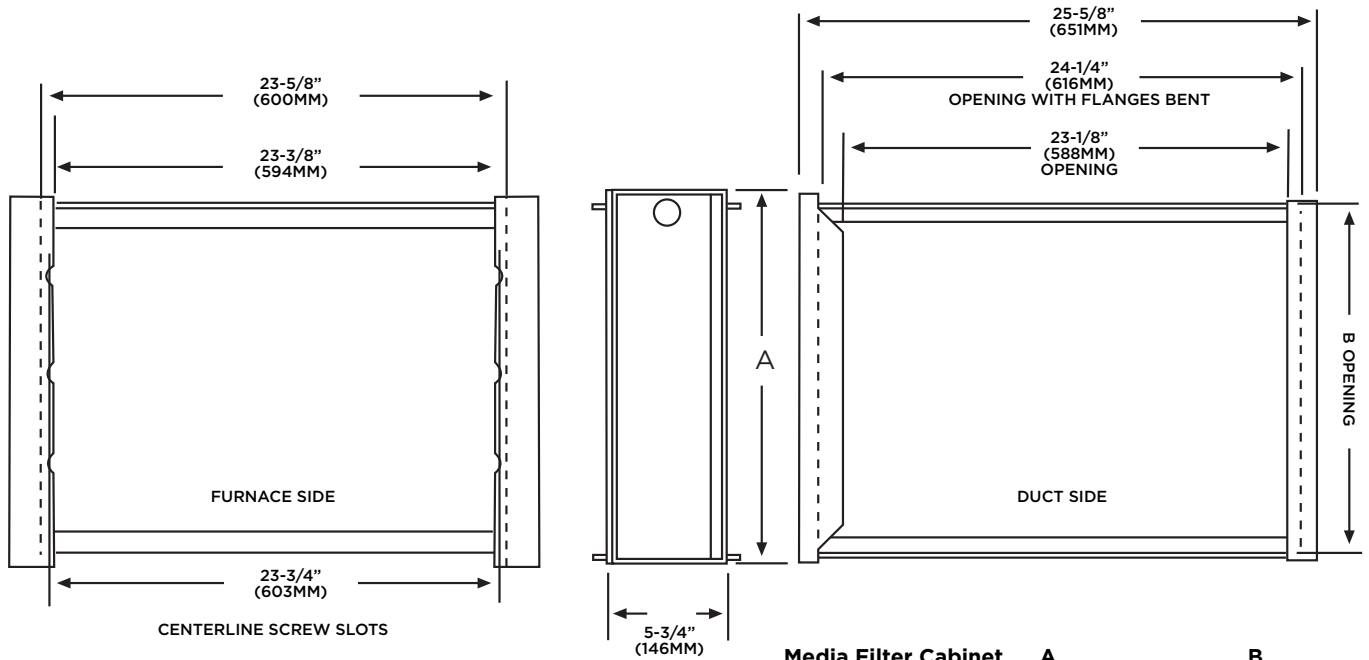
A concentric vent kit allows vent and combustion-air pipes to terminate through a single exit in a roof or side wall. One pipe runs inside the other allowing venting through the inner pipe and combustion air to be drawn in through the outer pipe.



Downflow Subbase

One base fits all furnace sizes. The base is designed to be installed between the furnace and a combustible floor when no coil box is used or when a coil box other than a cased coil is used. It is CSA design certified for use with a branded furnaces when installed in downflow applications.

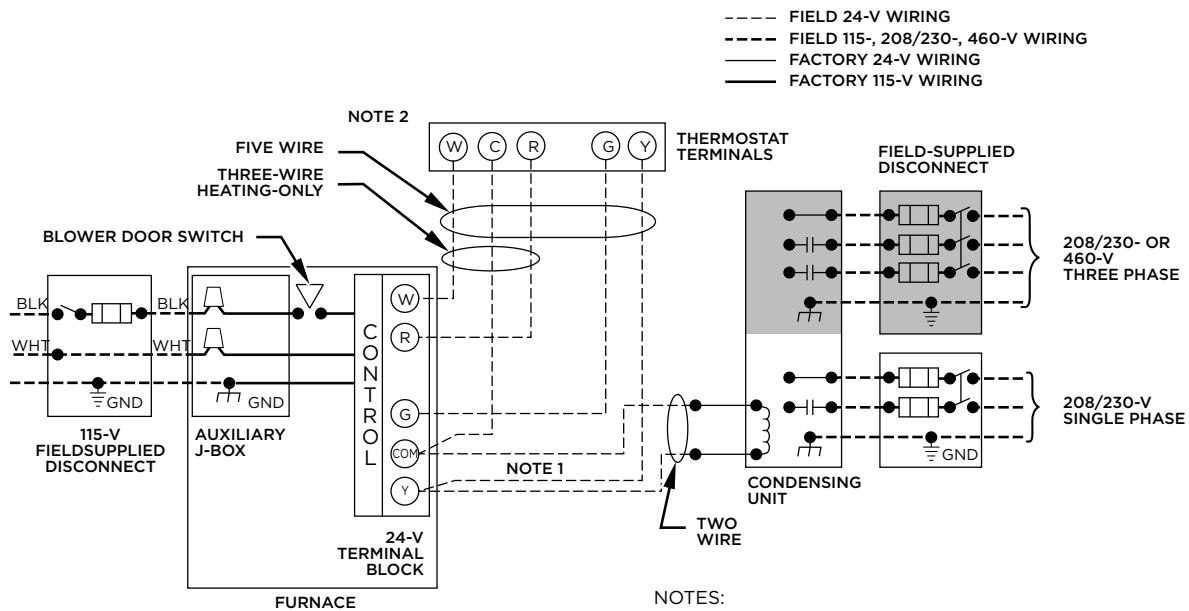
MEDIA FILTER CABINET (OPTIONAL ACCESSORY)



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

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

TYPICAL WIRING SCHEMATIC

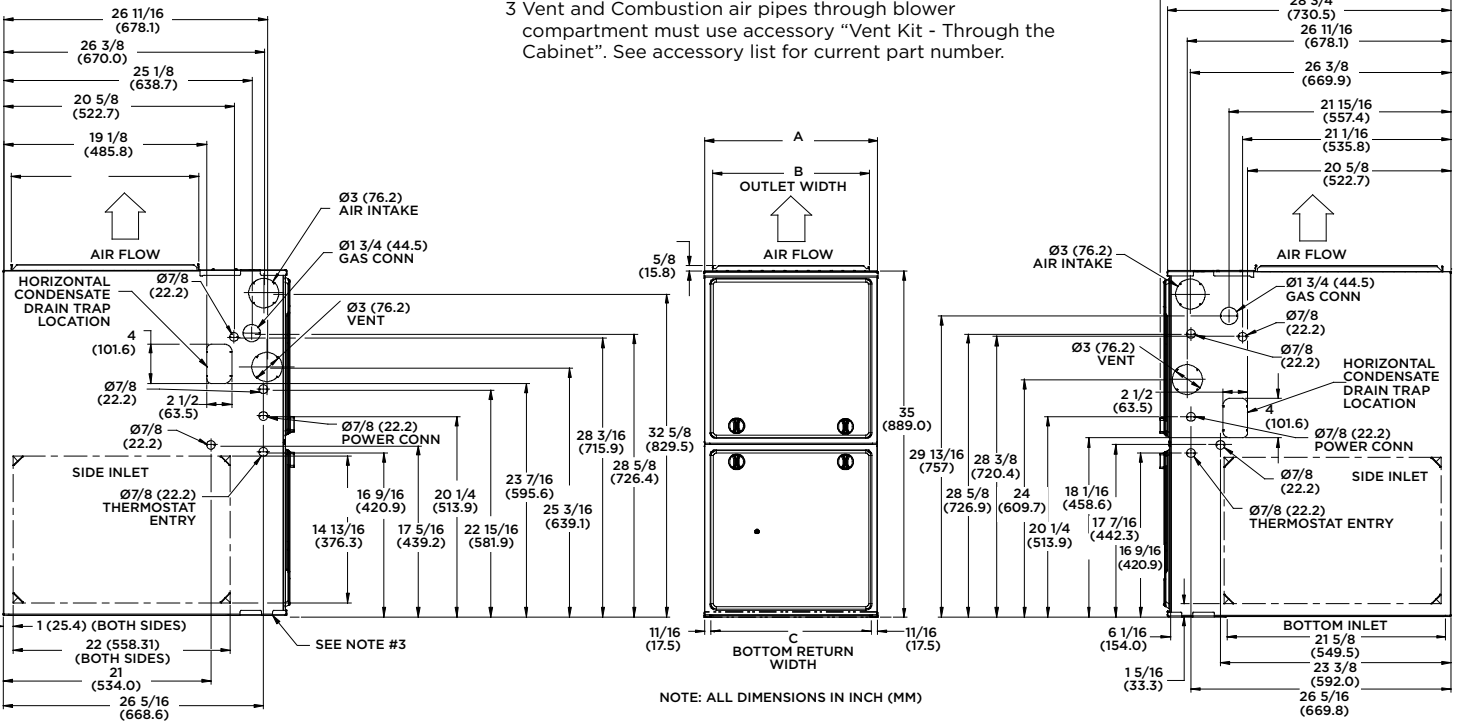
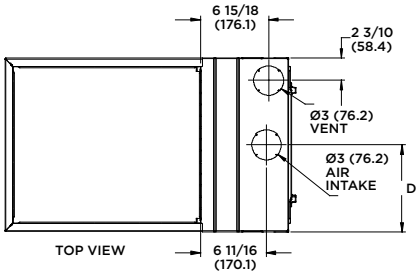


NOTES:
 1 Connect Y-terminal in furnace as shown for proper blower operation.
 2 Some thermostats require a "C" terminal connection as shown.
 3 If any of the original wire, as supplied, must be replaced, use same type or equivalent wire.

DIMENSIONAL DRAWING

NOTES:

- 1 Doors may vary by model.
 - 2 Minimum return-air openings at furnace, based on metal duct. If flex duct is used, see flex duct manufacturer's recommendations for equivalent diameters.
 - a. For 800 CFM-16-in. (406mm) round or 14 1/2 x 12-in. (368 x 305mm) rectangle.
 - b. For 1200 CFM-20-in. (508mm) round or 14 1/2 x 19 1/2-in. (368 x 495mm) rectangle.
 - c. For 1600 CFM-22-in. (559mm) round or 14 1/2 x 22 1/16-in. (368 x 560mm) rectangle.
 - d. 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.
- 3 Vent and Combustion air pipes through blower compartment must use accessory "Vent Kit - Through the Cabinet". See accessory list for current part number.



FURNACE SIZE	A CABINET WIDTH	B OUTLET WIDTH	C BOTTOM INLET WIDTH	D AIR INTAKE	SHIP WT. LB (KG)
30026A	14-3/16 (361)	12-1/2 (319)	12-9/16 (322)	7-1/8 (181)	118.0 (53.5)
30040A	14-3/16 (361)	12-1/2 (319)	12-9/16 (322)	7-1/8 (181)	120 (54.4)
36040B	17-1/2 (445)	15-7/8 (403)	16 (406)	8-3/4 (222)	126.5 (57.4)
36060A	14-3/16 (361)	12-1/2 (319)	12-9/16 (322)	7-1/8 (181)	129 (58.5)
42060B	17-1/2 (445)	15-7/8 (403)	16 (406)	8-3/4 (222)	138.5 (62.8)
48080B	17-1/2 (445)	15-7/8 (403)	16 (406)	8-3/4 (222)	146.5 (66.5)
60080C	21 (533)	19-3/8 (492)	19-1/2 (495)	10-1/2 (267)	154.5 (70.1)
60100C	21 (533)	19-3/8 (492)	19-1/2 (495)	10-1/2 (267)	164.5 (74.6)
66120D	24-1/2 (622)	22-7/8 (581)	23 (584)	12-1/4 (311)	179.5 (81.4)
66140D	24-1/2 (622)	22-7/8 (581)	23 (584)	12-1/4 (311)	189 (85.7)

GUIDE SPECIFICATIONS

General System Description

Furnish a _____ 4-way multi-position 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.

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 .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.



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With over 75 years of experience, Brock continues to build reliable products, parts and accessories for the heating, ventilation, and air conditioning industry. Brock remains dedicated to providing quality manufactured products at competitive prices and innovative home comfort solutions to homes across North America.

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