

R96MSN

Up to 97% AFUE, Single-Stage, Multi 18-Speed ECM,
Condensing Gas Furnace

Product Data



Representative drawing only. Some product models may vary.

A200446

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 designed for use in manufactured (Mobile) homes when an optional Mobile Home accessory kit is installed.

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

EASIER TO SELL

- Up to 97% AFUE in upflow, horizontal, and up to 95% AFUE in downflow positions
- Multi 18-speed, constant torque (MCT) ECM blower motor
- Enhanced diagnostics with easy to read 3-digit display for faults and status.
- Supports single-stage cooling units
- Insulated heat exchanger compartment
- 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
- Approved for Twinning applications with manufacturer's approved accessory kit.
- Approved for Manufactured Housing/Mobile Home applications with accessory (order separately)
- All sizes can be installed in air quality management districts with a 40 ng/J NOx emissions requirement

TOUGHER

- Flame roll-out sensors standard
- Adjustable heating blower OFF delay
- Factory set blower ON delay
- Stainless steel secondary heat exchanger
- High temperature limit control designed to prevent overheating
- Direct ignition with Silicon Nitride igniter
- High quality, corrosion-resistant, prepainted steel cabinet

EASIER TO INSTALL AND SERVICE

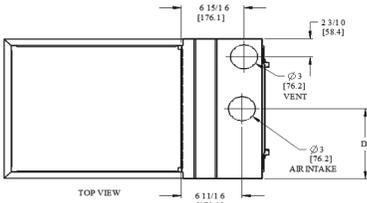
- On-board NFC antenna makes setup a tap away when using the service technician app.
- Direct vent (2-pipe), single-pipe venting or ventilated combustion air
- 24 VAC humidifier terminal and electronic air cleaner terminal
- 35" (889mm) high, for ease of installation
- Quarter turn knobs for easy door removal and secure attachment
- Convertible to propane with gas conversion accessory kit
- Four position - upflow/downflow/horizontal (left/right) installation
- Twelve different venting configurations
- Through the casing flue pipe for counterflow or horizontal applications with accessory (order separately)
- Concentric vent available
- Slide out heat exchanger and blower assembly



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.

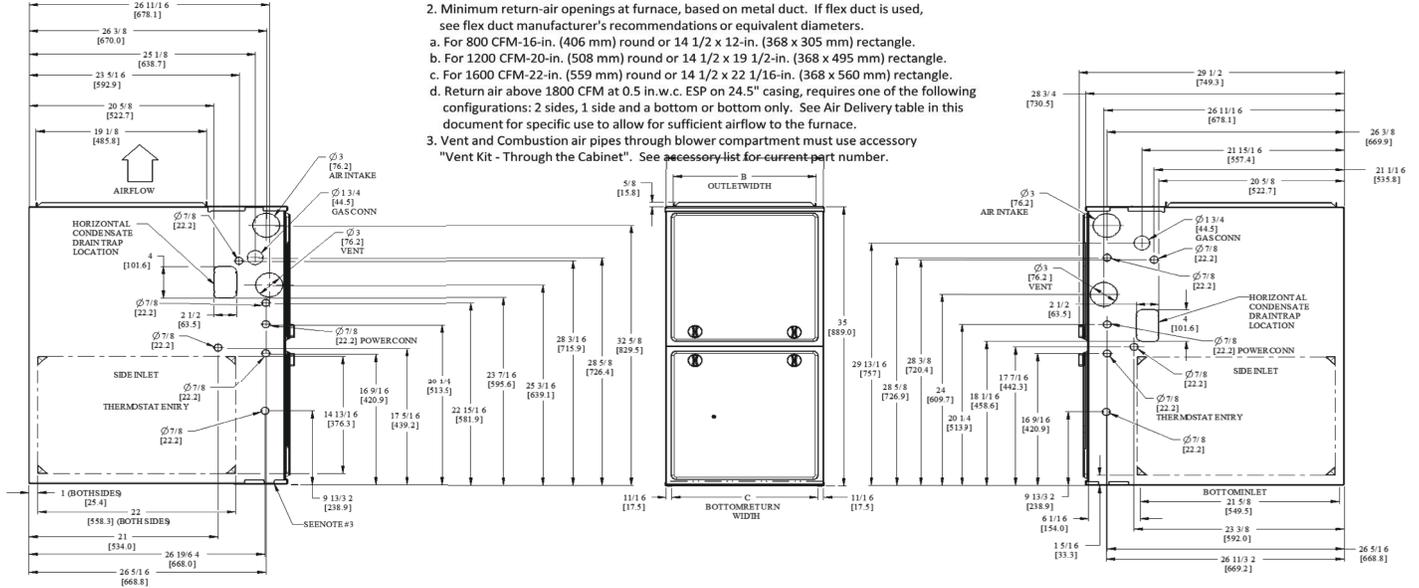
ISO 9001
Quality

A200326



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 or equivalent diameters.
 - a. For 800 CFM-16-in. (406 mm) round or 14 1/2 x 12-in. (368 x 305 mm) rectangle.
 - b. For 1200 CFM-20-in. (508 mm) round or 14 1/2 x 19 1/2-in. (368 x 495 mm) rectangle.
 - c. For 1600 CFM-22-in. (559 mm) round or 14 1/2 x 22 1/16-in. (368 x 560 mm) 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.



NOTE: ALL DIMENSIONS IN INCH (MM) SD9004 REV. -

A210796

Dimensional Drawing

Dimensions

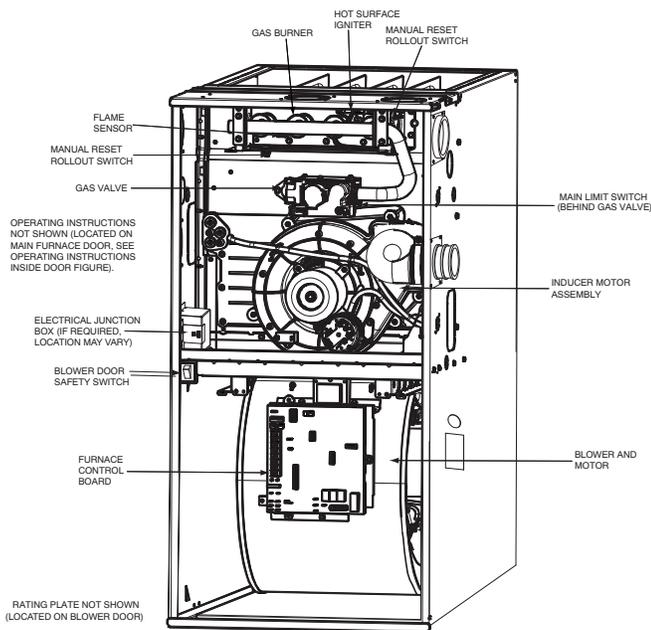
FURNACE SIZE	A	B	C	D	SHIP WT. LB (KG)
	CABINET WIDTH	OUTLET WIDTH	BOTTOM INLET WIDTH	AIR INTAKE	
0401410	14-3/16 (361)	12-1/2 (319)	12-9/16 (322)	7-1/8 (181)	123 (56)
0401712	17-1/2 (445)	15-7/8 (403)	16 (406)	8-3/4 (222)	130 (59)
0601716	17-1/2 (445)	15-7/8 (403)	16 (406)	8-3/4 (222)	142 (64)
0801716	17-1/2 (445)	15-7/8 (403)	16 (406)	8-3/4 (222)	150 (68)
0802120	21 (533)	19-3/8 (492)	19-1/2 (495)	10-1/2 (267)	158 (72)
1002120	21 (533)	19-3/8 (492)	19-1/2 (495)	10-1/2 (267)	167 (76)
1202422	24-1/2 (622)	22-7/8 (581)	23 (584)	12-1/4 (311)	181 (82)

MODEL NUMBER NOMENCLATURE

DIGIT POSITION	1	2,3	4	5	6	7-9	10,11	12,13	14	15
F, G, N, R	BRAND								MAJOR SERIES	MINOR SERIES 1, 2, 3...
80 - 80% AFUE 92 - 92% AFUE 95 - 95% AFUE 96 - 96% AFUE 97 - 97% AFUE	EFFICIENCY									A, B, C...
C = Constant Airflow Variable- Speed (VCA) ECM V = Variable-Speed (VCT) PWM M = Multi 18-Speed Constant Torque (MCT) ECM	MOTOR TYPE							COOLING CAPACITY		08 = 800 CFM 10 = 1000 CFM 12 = 1200 CFM 14 = 1400 CFM 16 = 1600 CFM 20 = 2000 CFM 22 = 2200 CFM
M - Modulating S - Single Stage T - Two Stage L = Low NOx M = Mobile/Manufactured Home N = Standard NOx U = Ultra Low NOx	HEATING STAGES						CABINET WIDTH			14 = 14.2" 17 = 17.5" 21 = 21.0" 24 = 24.5"
	FEATURE						HEATING INPUT			026 = 26,000 BTU/h 040 = 40,000 BTU/h 045 = 45,000 BTU/h 155 = 155,000 BTU/h

A221575

FURNACE COMPONENTS



A190145

For California Residents:

If installed with a manufactured (mobile) home conversion kit in SCAQMD: This furnace does not meet the SCAQMD Rule 1111 14 ng/J NOx emission limit, and thus is subject to a mitigation fee of up to \$450. This furnace is not eligible for the Clean Air Furnace Rebate Program: www.CleanAirFurnaceRebate.com

MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS

POSITION	CLEARANCE
REAR	0
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
Vent	0
Top of Furnace	1 in. (25 mm)

*. Consult local building codes

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 BTU/h or lower. 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		0401410	0401712	0601716	0801716
HEATING AND CAPACITY AND EFFICIENCY					
Input BTU [†]		40,000	40,000	60,000	80,000
Output Capacity (BTU [†])		39,000	39,000	58,000	78,000
Certified Temperature Rise Range - °F (°C)		40-70 (22-39)	40-70 (22-39)	40-70 (22-39)	40-70 (22-39)
AFUE	Upflow/Hz	96.0%	96.7%	97.0%	97.0%
	Downflow	95%	95%	95%	95%
AIRFLOW CAPACITY AND BLOWER DATA					
Rated Certified External Static Pressure	Heating	0.10	0.10	0.12	0.12
	Cooling	0.50	0.50	0.50	0.50
Airflow CFM @ Rated ESP (CFM) [‡]	Heating	705	700	1030	1290
	Cooling	155-1000	160-1075	315-1580	370-1625
Direct Drive Motor HP		1/2	1/2	3/4	3/4
Motor Full Load Amps		6.3	6.7	8.8	9.2
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)	11x7 (279x178)	11x8 (279x203)	11x8 (279x203)	11x8 (279x203)	11x8 (279x203)
Air Filtration System		Field Supplied Filter			
Filter used for Certified Watt Data		325531-40**			
ELECTRICAL DATA					
Unit Volts-Hertz-Phase		115-60-1			
Operating Voltage Range	Min-Max	104-127			
Maximum Unit Amps		7.0	7.4	10.1	10.0
Unit Ampacity		9.7	10.2	13.6	13.4
Maximum Wire Length (Measure 1 way in Ft/M)		38/11.7	36/11.1	27/8.3	27/8.4
Minimum Wire Size	AWG	14	14	14	14
Max. Fuse/Ckt Bkr Size (Time-Delay Type Recommended)	Amps	15	15	15	15
Transformer Capacity (24 VAC output)		40VA			
External Control Power Available	Heating	12VA			
	Cooling	35VA			
GAS CONTROLS					
Burners		2	3	4	4
Gas Connection Size		1/2 in. NPT			
Gas Valve (Redundant)	Mfr	White Rodgers™			
Min. inlet pressure	(in. w.c.)	4.5 (Natural Gas)			
Max. inlet pressure	(in. w.c.)	13.6 (Natural Gas)			
Ignition Device		Silicon Nitride			
Factory installed orifice		Size 44			
CONNECTIONS					
Communication System		None			
Thermostat Connections		G, C, W, Y, R			
Accessory Connections		EAC-1 (115 VAC); HUM (24 VAC); 1-STG AC (via Y)			

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

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

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

** See Accessory List for part numbers available.

UNIT SIZE		0802120	1002120	1202422
HEATING AND CAPACITY AND EFFICIENCY				
Input BTU ^h		80,000	100,000	120,000
Output Capacity (BTU ^h) [†]		78,000	97,000	116,000
Certified Temperature Rise Range - °F (°C)		40-70 (22-39)	40-70 (22-39)	40-70 (22-39)
AFUE	Upflow/Hz	97.0%	96.3%	96.1%
	Downflow	95%	95%	95%
AIRFLOW CAPACITY AND BLOWER DATA				
Rated Certified External Static Pressure	Heating	0.12	0.15	0.20
	Cooling	0.50	0.50	0.50
Airflow CFM @ Rated ESP (CFM) [‡]	Heating	1310	1730	1965
	Cooling	225-2125	375-2145	290-2240
Direct Drive Motor HP		1	1	1
Motor Full Load Amps		11.5	11.7	11.5
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)		11x10 (279x254)	11x10 (279x254)	11x11 (279x279)
Air Filtration System		Field Supplied Filter		
Filter used for Certified Watt Data		325531-40**		
ELECTRICAL DATA				
Unit Volts-Hertz-Phase		115-60-1		
Operating Voltage Range	Min-Max	104-127		
Maximum Unit Amps		13.1	12.6	13.2
Unit Ampacity		17.3	16.7	17.4
Maximum Wire Length (Measure 1 way in Ft/M)		33/10.1	34/10.5	33/10.0
Minimum Wire Size	AWG	14	14	14
Max. Fuse/Ckt Bkr Size (Time-Delay Type Recommended)	Amps	15	15	15
Transformer Capacity (24 VAC output)		40VA		
External Control Power Available	Heating	12VA		
	Cooling	35VA		
GAS CONTROLS				
Burners		4	5	6
Gas Connection Size		1/2 in. NPT		
Gas Valve (Redundant)	Mfr	White Rodgers™		
Min. inlet pressure	(in.w.c.)	4.5 (Natural Gas)		
Max. inlet pressure	(in.w.c.)	13.6 (Natural Gas)		
Ignition Device		Silicon Nitride		
Factory installed orifice		Size 44		
CONNECTIONS				
Communication System		None		
Thermostat Connections		G, C, W, Y, R		
Accessory Connections		EAC-1 (115 VAC); HUM (24 VAC); 1-STG AC (via Y)		

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

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

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

** See Accessory List for part numbers available.

AIR DELIVERY (with filter)**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
0401410	1	Cont. Fan	390	335	275	215	155	-	-	-	-	-
	2		405	355	300	240	185	125	-	-	-	-
	3		455	405	355	305	250	200	140	-	-	-
	4		485	440	390	345	295	245	190	140	-	-
	5		530	485	440	395	350	300	255	205	155	-
	6		565	525	485	440	400	355	310	270	220	170
	7		600	560	520	480	440	400	360	320	275	230
	8		645	605	570	530	495	455	415	375	335	300
	9	Heat	705	665	630	595	560	525	490	455	415	380
	10		720	685	650	615	580	545	515	480	440	405
	11		760	730	695	660	630	595	560	530	495	460
	12		820	785	755	725	690	660	630	600	570	535
	13		865	835	805	775	745	715	690	660	630	600
	14		910	885	855	825	800	770	740	710	685	655
	15		965	935	905	880	855	825	800	770	745	715
	16		1005	975	950	925	900	870	845	820	795	765
	17		1055	1025	1000	975	950	925	900	875	850	825
	18	Cooling	1100	1075	1050	1025	1000	980	955	930	905	880
0401712	1	Cont. Fan	415	350	290	230	160	105	-	-	-	-
	2		450	385	325	270	210	150	-	-	-	-
	3		480	420	360	310	260	195	140	-	-	-
	4		525	470	415	360	315	265	205	150	-	-
	5		565	515	460	410	360	315	265	210	160	-
	6		605	555	505	455	405	365	320	270	215	170
	7		655	605	560	510	465	420	385	340	290	240
	8	Heat	700	655	610	565	520	475	435	400	360	310
	9		740	695	655	610	570	525	485	450	415	380
	10		780	740	700	660	615	575	535	500	465	430
	11		830	790	750	715	675	635	595	560	520	490
	12		880	840	800	765	730	690	655	615	575	545
	13		930	895	860	825	790	750	715	680	645	610
	14		980	945	910	875	845	810	775	740	705	670
	15		1030	995	960	930	895	860	830	795	760	730
	16		1085	1050	1020	985	955	925	890	860	825	795
	17		1140	1105	1080	1045	1015	985	955	925	895	865
	18	Cooling	1220	1185	1150	1115	1075	1040	1005	965	925	885
0601716	1	Cont. Fan	590	520	455	380	315	250	185	120	-	-
	2		640	575	515	445	375	320	260	195	130	-
	3		710	650	595	535	470	410	355	305	245	175
	4		755	700	645	590	535	465	410	360	310	260
	5		835	780	730	680	630	580	515	465	420	370
	6		890	840	790	745	695	645	595	540	490	445
	7		960	915	870	825	780	735	690	635	580	535
	8		1010	965	920	875	835	790	745	705	650	605
	9	Heat	1040	995	950	910	870	825	785	745	700	650
	10		1095	1055	1015	975	935	895	855	815	775	730
	11		1165	1130	1090	1050	1010	975	940	900	865	830
	12		1235	1200	1160	1125	1090	1055	1020	985	945	915
	13		1315	1280	1245	1210	1175	1140	1110	1075	1045	1010
	14		1380	1345	1315	1280	1250	1215	1185	1150	1120	1090
	15		1455	1420	1390	1360	1330	1300	1270	1240	1210	1180
	16		1525	1495	1465	1435	1410	1380	1350	1325	1295	1270
	17		1605	1580	1550	1525	1500	1470	1445	1420	1395	1370
	18	Cooling	1720	1685	1650	1615	1580	1545	1505	1470	1430	1395

Air Delivery - CFM (with filter) (Continued)

Unit Size	Airflow Setting	Default Setting	External Static Pressure (in. w.c.)									
			0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
0801716	1	Cont. Fan	625	560	495	430	370	310	250	190	130	-
	2		695	635	575	515	455	400	345	285	235	175
	3		760	700	645	590	530	480	430	370	325	270
	4		815	765	710	660	605	550	500	455	400	355
	5		875	820	770	725	675	620	570	525	475	430
	6		945	895	845	800	755	710	655	610	565	525
	7		1005	960	915	870	830	785	740	690	645	610
	8		1070	1025	985	940	900	855	815	770	725	685
	9		1145	1100	1060	1020	980	940	900	860	820	775
	10		1215	1175	1135	1095	1055	1020	980	940	905	865
	11		1295	1255	1215	1180	1145	1105	1070	1035	1000	960
	12	Heat	1300	1265	1225	1190	1155	1120	1085	1050	1010	980
	13		1355	1320	1280	1245	1210	1175	1135	1100	1070	1030
	14		1440	1400	1365	1335	1300	1265	1230	1200	1165	1130
	15		1515	1480	1445	1415	1380	1350	1320	1285	1255	1220
	16		1575	1540	1510	1480	1450	1415	1385	1355	1320	1290
	17		1655	1625	1590	1560	1530	1500	1470	1440	1410	1375
	18	Cooling	1760	1730	1700	1665	1625	1585	1535	1490	1450	1405
0802120	1	Cont. Fan	615	515	415	325	225	140	-	-	-	-
	2		695	610	515	430	340	255	165	-	-	-
	3		805	725	645	560	485	405	325	245	165	-
	4		870	795	720	640	560	490	415	345	270	195
	5		955	885	815	740	670	595	530	460	390	330
	6		1070	1005	935	870	805	740	675	615	545	485
	7		1150	1085	1025	960	900	835	775	710	650	590
	8		1245	1185	1125	1065	1005	950	890	835	775	720
	9	Heat	1325	1270	1215	1160	1105	1050	995	945	885	830
	10		1415	1360	1310	1255	1205	1150	1100	1045	995	945
	11		1535	1485	1435	1385	1335	1285	1240	1195	1145	1095
	12		1610	1560	1515	1465	1420	1375	1325	1280	1235	1190
	13		1715	1670	1625	1580	1535	1495	1450	1405	1360	1315
	14		1820	1775	1735	1690	1650	1610	1570	1530	1485	1445
	15		1915	1875	1835	1795	1760	1720	1680	1645	1605	1565
	16		1995	1960	1920	1885	1845	1810	1775	1740	1700	1665
	17	Cooling	2105	2070	2035	2000	1970	1935	1900	1870	1835	1805
	18		2305	2260	2215	2170	2125	2080	2030	1985	1935	1890
1002120	1	Cont. Fan	720	630	540	450	375	285	205	130	-	-
	2		815	735	650	570	490	415	345	265	190	135
	3		910	835	760	680	605	535	465	400	330	255
	4		995	925	855	780	710	640	575	510	445	385
	5		1105	1040	975	910	845	780	710	650	585	530
	6		1200	1140	1080	1020	955	895	835	770	710	655
	7		1290	1230	1175	1120	1065	1005	945	885	825	770
	8		1375	1320	1265	1215	1160	1105	1050	995	935	880
	9		1475	1425	1375	1325	1275	1220	1170	1115	1060	1010
	10		1565	1520	1470	1425	1375	1330	1280	1230	1175	1125
	11		1675	1625	1580	1535	1490	1450	1400	1355	1305	1255
	12	Heat	1755	1710	1665	1625	1580	1535	1490	1450	1405	1360
	13		1885	1840	1795	1755	1715	1670	1630	1590	1550	1505
	14		1970	1925	1885	1845	1805	1765	1725	1685	1645	1610
	15		2085	2045	2005	1960	1925	1885	1845	1810	1775	1735
	16		2145	2105	2070	2030	1990	1955	1920	1885	1845	1805
	17		2185	2145	2105	2070	2035	1995	1960	1925	1885	1850
	18	Cooling	2315	2280	2240	2200	2145	2090	2035	1980	1925	1870

Air Delivery - CFM (with filter) (Continued)

Unit Size	Airflow Setting	Default Setting	External Static Pressure (in. w.c.)									
			0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
1202422	1	Cont. Fan	720	610	490	390	290	205	110	-	-	-
	2		800	695	590	480	390	300	220	135	-	-
	3		870	770	675	570	475	395	310	235	155	-
	4		970	880	785	700	605	525	440	365	290	230
	5		1060	975	890	805	725	635	555	485	410	345
	6		1145	1070	985	905	830	750	665	595	525	455
	7		1250	1175	1105	1025	955	880	805	730	660	595
	8		1345	1280	1205	1135	1065	1000	930	860	785	725
	9		1435	1370	1305	1240	1170	1105	1045	980	910	845
	10		1545	1485	1425	1360	1300	1235	1175	1115	1050	990
	11		1645	1590	1530	1475	1415	1350	1295	1240	1180	1125
	12		1740	1685	1635	1580	1525	1465	1410	1355	1300	1250
	13		1830	1775	1725	1675	1620	1565	1510	1455	1405	1355
	14	Heat	2015	1965	1920	1870	1825	1775	1725	1680	1630	1580
	15		2035	1990	1940	1895	1850	1805	1760	1710	1660	1615
	16		2140	2095	2050	2005	1960	1915	1875	1830	1785	1740
	17		2230	2190	2150	2110	2070	2025	1985	1945	1905	1860
	18	Cooling	2425	2385	2340	2290	2240	2190	2135	2080	2025	1965

NOTE:

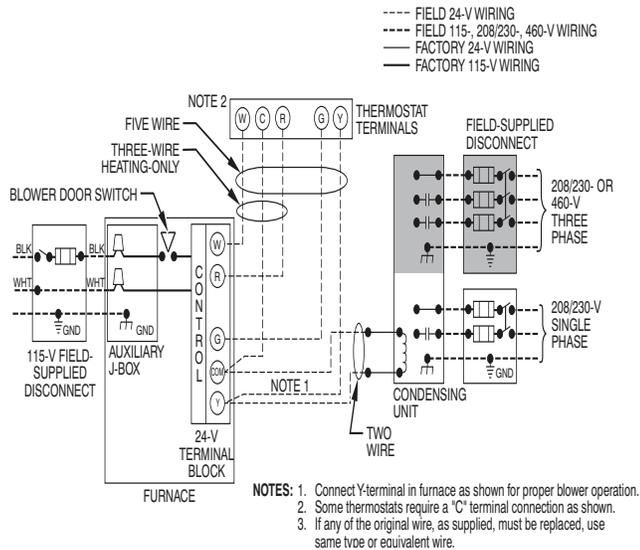
1. A filter is required for each return-air inlet. Airflow performance included 3/4-in. (19 mm) washable filter media such as contained in a factory - authorized accessory filter rack. See accessory list. To determine airflow performance without this filter, assume an additional 0.1 in. w.c. available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

Airflow Settings

Unit Size	Default Airflow Settings*		Designated Airflow Settings	
	Heating	Cooling	Heating	Constant Fan
0401410	9	18	(6-11)	(1-1)
0401712	8	18	(5-9)	(1-5)
0601716	9	18	(5-10)	(1-7)
0801716	12	18	(7-13)	(1-1)
0802120	9	17	(5-11)	(1-8)
1002120	12	18	(10-12)	(1-4)
1202422	14	18	(11-14)	(1-3)

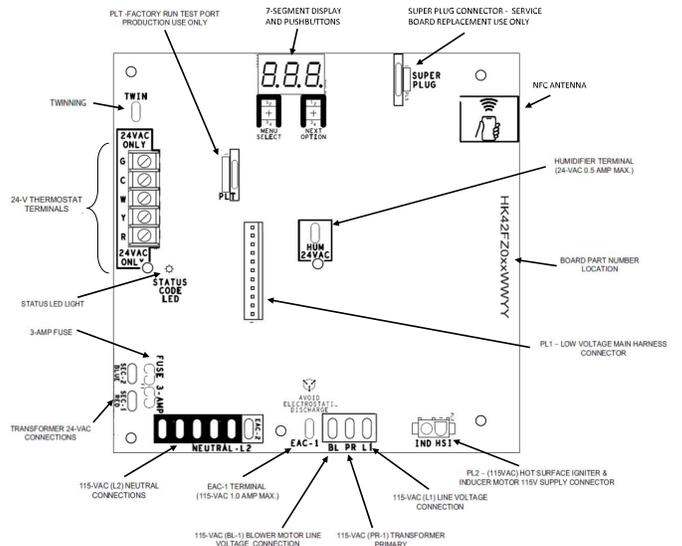
*. Setting #1 is the default setting for Constant Fan

TYPICAL WIRING SCHEMATIC



A190079

FURNACE CONTROL BOARD



A210192

MAXIMUM ALLOWABLE EXPOSED VENT LENGTH

Maximum Allowable Exposed Vent Lengths in Unconditioned Space Insulation Table - Ft.

Winter Design Temp °F	Unit Size	26,000* BTUH					
		Uninsulated		3/8-in. Insulation		1/2-in. Insulation	
	Pipe Dia. in.	1 ½	2	1 ½	2	1 ½	2
20		20	20	50	45	60	50
0		5	5	25	20	30	25
-20				15	10	20	15
-40				10	5	15	10

Winter Design Temp °F	Unit Size	40,000* BTUH									60,000 BTUH											
		Uninsulated			3/8-in. Insulation			1/2-in. Insulation			Uninsulated			3/8-in. Insulation			1/2-in. Insulation					
	Pipe Dia. in.	1 ½	2	2 ½	1 ½	2	2 ½	1 ½	2	2 ½	1 ½	2	2 ½	3	1 ½	2	2 ½	3	1 ½	2	2 ½	3
20		20	20	20	20	50	45	20	60	50	20	30	30	25	20	75	65	60	20	85	75	65
0		10	5	5	20	25	20	20	30	25	15	15	10	10	20	40	30	25	20	45	40	30
-20		5			20	15	10	20	20	15	10	5			20	25	20	15	20	30	25	20
-40					15	10	5	15	15	10	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												120,000 BTUH								
		Uninsulated				3/8-in. Insulation				1/2-in. Insulation				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	2 ½	3	4	2 ½	3	4	2 ½	3	4
20		20	50	40	35	20	80	95	80	20	80	105	90	10	50	40	10	75	95	10	75	105
0		20	20	15	10	20	55	45	35	20	65	55	45	10	20	15	10	55	45	10	65	50
-20		15	10	5		20	35	30	20	20	45	35	25	10	10		10	35	25	10	45	30
-40		10	5			20	25	20	10	20	30	25	15	10	5		10	25	15	10	30	20

Winter Design Temp °F	Unit Size	140,000* BTUH								
		Uninsulated			3/8-in. Insulation			1/2-in. Insulation		
	Pipe Dia. in.	2 ½	3	4	2 ½	3	4	2 ½	3	4
20		5	55	50	5	65	105	5	65	125
0		5	25	15	5	65	50	5	65	60
-20		5	10	5	5	45	30	5	50	40
-40		5	5		5	30	20	5	35	25

*. Not all model families have this size.

Maximum Allowable Exposed Vent Length in Unconditioned Space - Meters

Winter Design Temp °C	Unit Size	26,000* BTUH					
		Uninsulated		3/8-in. Insulation		1/2-in. Insulation	
	Pipe Dia. mm	38	51	38	51	38	51
-7		6.1	6.1	15.2	13.7	18.3	15.2
-18		1.5	1.5	7.6	6.1	9.1	7.6
-29				4.6	3.0	6.1	4.6
-40				3.0	1.5	4.6	3.0

Winter Design Temp °C	Unit Size	40,000 BTUH									60,000 BTUH											
		Uninsulated			3/8-in. Insulation			1/2-in. Insulation			Uninsulated				3/8-in. Insulation				1/2-in. Insulation			
	Pipe Dia. mm	38	51	64	38	51	64	38	51	64	38	51	64	76	38	51	64	76	38	51	64	76
-7		6.1	6.1	6.1	6.1	15.2	13.7	6.1	18.3	15.2	6.1	9.1	9.1	7.6	6.1	22.9	19.8	18.3	6.1	25.9	22.9	19.8
-18		3.0	1.5	1.5	6.1	7.6	6.1	6.1	9.1	7.6	4.6	4.6	3.0	3.0	6.1	12.2	9.1	7.6	6.1	13.7	12.2	9.1
-29		1.5			6.1	4.6	3.0	6.1	6.1	4.6	3.0	1.5			6.1	7.6	6.1	4.6	6.1	9.1	7.6	6.1
-40					4.6	3.0	1.5	4.6	4.6	3.0	1.5				6.1	4.6	4.6	3.0	6.1	6.1	4.6	3.0

Winter Design Temp °C	Unit Size	80,000 BTUH														
		Uninsulated					3/8-in. Insulation					1/2-in. Insulation				
	Pipe Dia. mm	38	51	64	76	102	38	51	64	76	102	38	51	64	76	102
-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
-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
-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
-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

Winter Design Temp °C	Unit Size	100,000 BTUH												120,000 BTUH								
		Uninsulated				3/8-in. Insulation				1/2-in. Insulation				Uninsulated			3/8-in. Insulation			1/2-in. Insulation		
	Pipe Dia. mm	51	64	76	102	51	64	76	102	51	64	76	102	64	76	102	64	76	102	64	76	102
-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	3.0	15.2	12.2	3.0	22.9	28.9	3.0	22.9	32.0
-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	3.0	6.1	4.6	3.0	16.8	13.7	3.0	19.8	15.2
-29		4.6	3.0	1.5		6.1	10.7	9.1	6.1	6.1	13.7	10.7	7.6	3.0	3.0		3.0	10.7	7.6	3.0	13.7	9.1
-40		3.0	1.5			6.1	7.6	6.1	3.0	6.1	9.1	7.6	4.6	3.0	1.5		3.0	7.6	4.6	3.0	9.1	6.1

Winter Design Temp °C	Unit Size	140,000* BTUH*								
		Uninsulated			3/8-in. Insulation			1/2-in. Insulation		
	Pipe Dia. mm	64	76	102	64	76	102	64	76	102
-7		1.5	16.7	15.2	1.5	19.8	32.0	1.5	19.8	38.1
-18		1.5	7.6	4.6	1.5	19.8	15.2	1.5	19.8	18.3
-29		1.5	3.0	1.5	1.5	13.7	9.1	1.5	15.2	12.2
-40		1.5	1.5		1.5	9.1	6.1	1.5	35	7.6

*. Not all model families have this size.

MAXIMUM EQUIVALENT VENT LENGTH - Ft. (M)

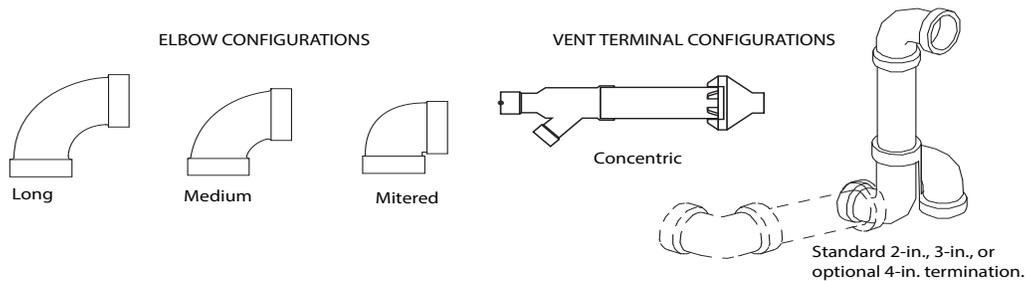
NOTE: Maximum Equivalent Vent Length (MEVL) includes standard and concentric vent termination and does NOT include elbows. Use Deductions from Maximum Equivalent Vent Length to determine allowable vent length for each application.

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

Maximum Equivalent Vent Length - Meters

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

1. 40K Inducer Outlet Restrictor disk (P/N 1185623; 1.25-in. (32 mm) Dia.) shipped in the loose parts bag or available through FAST Parts 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.
2. 26K (shipped in loose parts bag) & 60K Inducer Outlet Restrictor disk (P/N 1185623; 1.25-in. (32 mm) Dia. available through FAST Parts) 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.
3. 120K & 140K Inducer Outlet Restrictor disk (P/N 1188589; 1.50-in. (38 mm) Dia. available through FAST Parts) 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.



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	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)

NOTE:

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 local authorities having jurisdiction.
4. Size both the combustion air and vent pipe independently, then use the larger size for both pipes.
5. Assume the two 45° elbows equal one 90° elbow. Wide radius elbows are desirable and may be required in some cases.
6. Elbow and pipe sections within the furnace casing and at the vent termination should not be included in vent length or elbow count.
7. The minimum pipe length is 5 ft. (2 M) linear feet (meters) for all applications.
8. Use 3-in. (76 mm) diameter vent termination kit for installations requiring 4-in. (102 mm) diameter pipe

Venting System Length Calculations

The Total Equivalent Vent Length (TEVL) for **EACH** combustion air or vent pipe equals the length of the venting system, plus the equivalent length of elbows used in the venting system from Deductions from Maximum Equivalent Vent Length - Ft. (M) 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 - Ft. (M) Table.
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 - Ft. (M) Table.
Add equiv length of factory concentric vent term					0 ft.	From Deductions from Maximum Equivalent Vent Length - Ft. (M) Table.
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 Table.
Is TEVL less than MEVL?					YES	Therefore, 2" pipe MAY be used

Example 2

A direct-vent 60,000 BTUH furnace installed at 2100 ft. (640M). Venting system includes **FOR EACH PIPE:** 100 feet (30 M) of vent pipe, 95 feet (29 M) of combustion air inlet pipe, (3) 90° long-radius elbows, and a polypropylene concentric vent kit. Also includes 20 feet (6.1 M) of flexible polypropylene vent pipe, included within the 100 feet (30 M) of vent pipe.

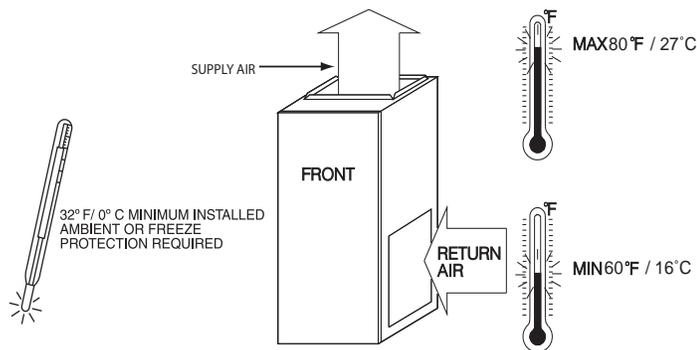
VERIFY FROM POLYPROPYLENE VENT MANUFACTURER'S INSTRUCTIONS for the multiplier correction for flexible vent pipe.

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

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

RETURN AIR TEMPERATURE

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



A10490

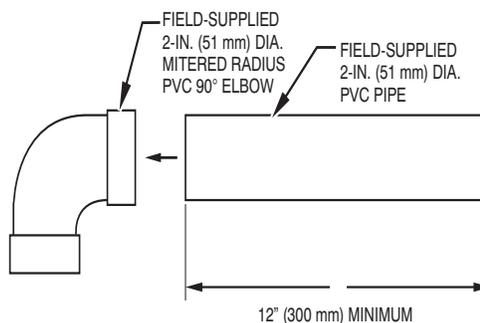
MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS

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)

*. Consult your local building codes

†. Recommended

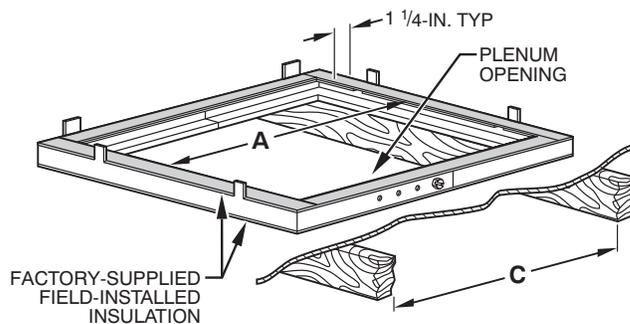
COMBUSTION-AIR PIPE FOR NON-DIRECT (1-PIPE) VENT APPLICATION



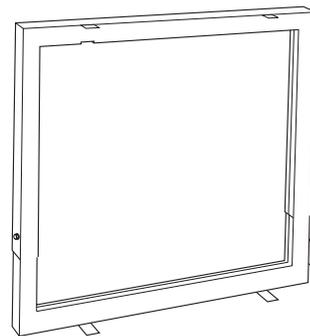
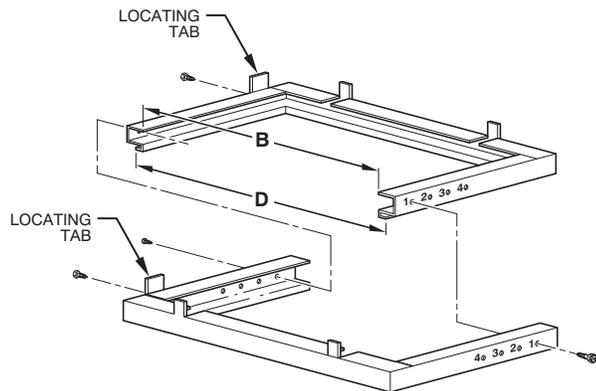
A12376

NOTE: See Installation Instructions for specific venting configurations.

DOWNFLOW SUBBASE



A97427



Downflow Subbase

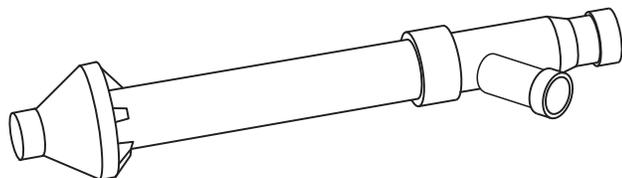
A88207

A88202

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 manufacturer's cased coil is used. It is CSA design certified for use with manufacturer's branded furnaces when installed in downflow applications.

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

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.

ACCESSORIES

PART NUMBER	DESCRIPTION	0401410	0401712	0601716	0801716
1188594*	Gas Valve Tower Port Adapter Kit	X	X	X	X
ACG1425NCB*	External Filter Rack, 14-1/2 x 25"	X	-	-	-
ACG1625NCF*	External Filter Rack, 16 x 25"	-	X	X	X
325531-402*	Washable filter, 3/4" x 16" x 25"	X	X	X	X
NAHB00101CA	Coil Adapter Kits - No Offset	X	X	X	-
NAHB00201CA	Coil Adapter Kits - Single Offset	X	X	X	X
NAHB00301CA	Coil Adapter Kits - Double Offset	X	X	X	X
NAHA01401RA	Return Air Base (Upflow Applications) 14" wide	X	-	-	X
NAHA01701RA	Return Air Base (Upflow Applications) 17-1/2" wide	-	X	X	X
NAHB00101CT	External Trap Kit	X	X	X	X
NAHA002CV	Vent Terminal - Concentric - 2" (51 mm)	X	X	X	X
NAHA001CV	Vent Terminal - Concentric - 3" (76 mm)	-	-	X	X
NAHA00301VT	Vent Terminal Bracket - 2" (51 mm)	X	X	X	X
NAHA00401VT	Vent Terminal Bracket - 3" (76 mm)	-	-	X	X
NAHA00101VC	Vent Kit - Through the Cabinet for HZ left/right ONLY	X	X	X	X
NAHA00101CK	Polypropylene Inlet Air Pipe Coupling	X	X	X	X
NAHA00101HV	Horizontal Trap Grommet - Direct Vent	X	X	X	X
NAHA00101HH	Freeze Protect Kit - Condensate Drain Line Tape	X	X	X	X
NAHA00201HH	Freeze Protect Kit - Condensate Trap with Heat Pad	X	X	X	X
NAHA00110DA	CPVC to PVC Drain Adapters - 1/2" CPVC to 3/4" PVC (10 Pack)	X	X	X	X
NAHA01101SB	Downflow Furnace Base Kit for Combustible Floors	X	X	X	X
AGAGC9NPS01C*	Gas Conversion Kit - Nat to LP†	X	X	X	X
AGAGC9PNS01C*	Gas Conversion Kit - LP to Nat†	X	X	X	X
AGAGCAMHC01A	Manufactured Home Kit - Gas Conversion†	X	X	X	X
AGATWNDTE01C	Twinning Kit - (MCT) ECM Motor	-	-	X	X
NAHA001NK	Condensate Neutralizer Kit	X	X	X	X

*. Order through FAST Parts.

†. Factory authorized and filed installed. Gas conversion kits are CSA recognized.

X = Accessory

ACCESSORIES (Continued)

PART NUMBER	DESCRIPTION	0802120	1002120	1202422
1188594*	Gas Valve Tower Port Adapter Kit	X	X	X
ACG2025NCJ*	External Filter Rack, 20 x 25"	X	X	-
ACG2424NCL*	External Filter Rack, 24-1/2 x 24"	-	-	X
325531-403†	Washable filter, 3/4" x 21" x 25"	X	X	-
325531-404†	Washable filter, 3/4" x 24" x 25"	-	-	X
NAHB00101CA	Coil Adapter Kits - No Offset	X	X	X
NAHB00201CA	Coil Adapter Kits - Single Offset	X	X	X
NAHB00301CA	Coil Adapter Kits - Double Offset	X	X	X
NAHA01701RA	Return Air Base (Upflow Applications) 17-1/2" wide	-	-	-
NAHA02101RA	Return Air Base (Upflow Applications) 21" wide	X	X	-
NAHA02401RA	Return Air Base (Upflow Applications) 24-1/2 wide	-	-	X
NAHB00101CT	External Trap Kit	X	X	X
NAHA002CV	Vent Terminal - Concentric - 2" (51 mm)	X	X	X
NAHA001CV	Vent Terminal - Concentric - 3" (76 mm)	X	X	-
NAHA00301VT	Vent Terminal Bracket - 2" (51 mm)	X	X	X
NAHA00401VT	Vent Terminal Bracket - 3" (76 mm)	X	X	-
NAHA00101VC	Vent Kit - Through the Cabinet for HZ left/right ONLY	-	-	X
NAHA00101CK	Polypropylene Inlet Air Pipe Coupling	X	X	X
NAHA00101HV	Horizontal Trap Grommet - Direct Vent	X	X	X
NAHA00101HH	Freeze Protect Kit - Condensate Drain Line Tape	X	X	X
NAHA00201HH	Freeze Protect Kit - Condensate Trap with Heat Pad	X	X	X
NAHA00110DA	CPVC to PVC Drain Adapters - 1/2" CPVC to 3/4" PVC (10 Pack)	X	X	X
NAHA01101SB	Downflow Furnace Base Kit for Combustible Floors	X	X	X
AGAGC9NPS01C*	Gas Conversion Kit - Nat to LP†	X	X	X
AGAGC9PNS01C*	Gas Conversion Kit - LP to Nat†	X	X	X
AGAGCAMHC01A	Manufactured Home Kit - Gas Conversion†	X	X	X
AGATWNDTE01C	Twinning Kit - (MCT) ECM Motor	X	-	X
NAHA001NK	Condensate Neutralizer Kit	X	X	X

* - Order through FAST Parts.

† - Factory authorized and filed installed. Gas conversion kits are CSA recognized.

X = Accessory