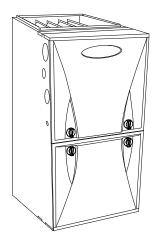
59TN7A

Infinity®Two-Stage, Variable Speed, 4-Way Multipoise, Condensing Gas Furnace



Product Data



A11263

Representative drawing only. Some product models may vary.

WARNING

CARBON MONOXIDE POISONING AND FIRE HAZARD

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

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

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

The 59TN7A Multipoise Infinity® two-stage condensing gas furnace features a variable speed constant airflow ECM motor. The Comfot Heat® Technology two-stage gas system is at the heart of the comfort, provided by this furnace, along with the Infinity variable--speed constant airflow ECM blower motor, and two-speed inducer motor. With an Annual Fuel Utilization Efficiency (AFUE) of up to 97%, the Infinity two-stage gas furnace provides exceptional savings when compared to a standard furnace. This Infinity Gas Furnace also features 4-way multipoise installation flexibility, and is available in five model sizes. The 59TN7A can be vented for direct vent/two-pipe, ventilated combustion air, or single-pipe applications. A Carrier® Infinity® Control and Infinity® Air Conditioner or Heat Pump can be used to form a complete Infinity System. All sizes can be installed in air quality management districts with a 40 ng/J NOx emissions requirement. All sizes are design certified in Canada.

PERFORMANCE

- Communicating variable-speed, constant airflow (VCA) ECM blower motor for electrically efficient operation all year long in heating, cooling and continuous fan operation
- Two-speed inducer motor, and two-stage gas valve.
- Power HeatTM Silicon Nitride Hot Surface Igniter.

- Ideal Humidity System[™] technology can dehumidify a home without a call for cooling.
- Integral part of the Ideal Humidity® System Technology.
- ComfortFanTM technology allows control of continuous fan speed from a compatible thermostat.
- SmartEvapTM technology helps control humidity levels in the home when used with a compatible humidity control system.
- On-board NFC antenna makes setup a tap away when using the Carrier® Service Technician App.
- 3-digit display shows fault codes and furnace status.
- RAT and SAT thermistors can provide temperature rise.
- · Aluminized-steel primary heat exchanger.
- Stainless-steel condensing secondary heat exchanger.
- Fully-insulated casing including blower section.

INSTALLATION FLEXIBILITY

- 4-way multipoise design for upflow, downflow or horizontal installation, with unique vent elbow and optional through- the-cabinet downflow venting capability.
- Ideal height 35-in. (889 mm) cabinet: short enough for taller coils, but still allows enough room for service.
- Direct-vent/sealed combustion, single-pipe venting or ventilated combustion air.

APPLICATIONS

- Self-diagnostics and extended diagnostic data through the Advanced Product Monitor (APM) accessory or Infinity User Interface.
- Propane convertible with gas conversion accessory
- Convenient Air Purifier and Humidifier connections.
- Compatible with single- and multiple-zone Infinity systems.

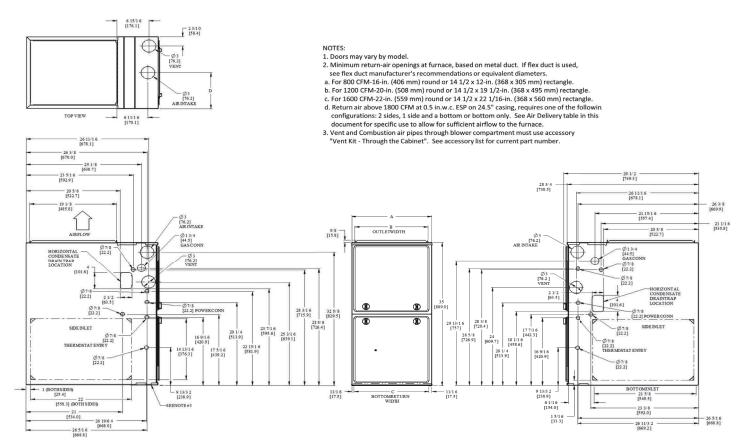
CERTIFICATIONS

- 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.

Limited WARRANTY *

- Default 5-year parts limited warranty
- Default 20-year heat exchanger limited warranty
 - * 10-year parts and lifetime limited heat exchanger warranty with timely registration
 - * Equipment must be registered within 90 days of original installation, except in jurisdictions where warranty benefits cannot be conditioned on registration.
- * Applies to original purchaser/homeowner and not available to subsequent owners. See warranty certificate for complete details and restrictions, including warranty coverage of other applications.

DIMENSIONAL DRAWING



NOTE: ALL DIMENSIONS IN INCH (MM)

SD5663-4 REV -

A210796

Dimensions

FURNACE SIZE	A	В	С	D	SHIP WT.	
FORNACE SIZE	CABINET WIDTH	OUTLET WIDTH	BOTTOM INLET WIDTH	AIR INTAKE	LB (KG)	
060C17-16	17-1/2 (445)	15-7/8 (403)	16 (406)	8-3/4 (222)	151.0 (68.5)	
080C17-16	17-1/2 (445)	15-7/8 (403)	16 (406)	8-3/4 (222)	152.5 (69.2)	
080C21-20	21 (533)	19-3/8 (492)	19-1/2 (495)	10-1/2 (267)	171.5 (77.8)	
100C21-22	21 (533)	19-3/8 (492)	19-1/2 (495)	10-1/2 (267)	179.0 (81.2)	
120C24-22	24-1/2 (622)	22-7/8 (581)	23 (584)	12-1/4 (311)	195.0 (88.5)	



Quality















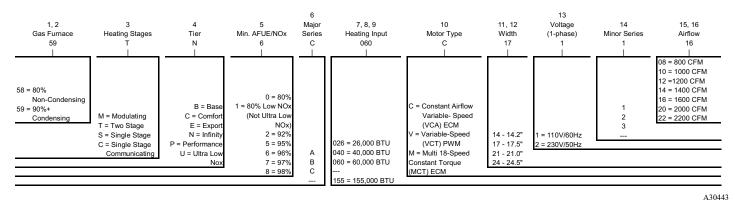




Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for in-dividual products, go to dividual products, go www.ahridirectory.org .

A200620A

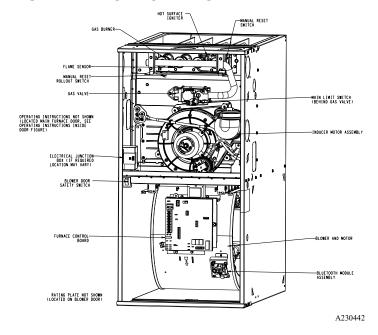
MODEL NUMBER NOMENCLATURE



IMPORTANT: For California Residents:

For installation in SCAQMD only: 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

FURNACE COMPONENTS



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 buildin codes
- †. Recommende

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 20,000 BTU 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.

Table 1 – SPECIFICATIONS

			Table 1 – SPEC	I	I	I	Ι			
		UNIT SIZE	060C17-16	080C17-16	080C21-20	100C21-22	120C24-22			
HEATING AND CAPACITY	AND EFFICIE			T	T	I	1			
INPUT BTUH*	High Heat	(BTUH)		80,000	80,000	100,000	120,000			
	Low Heat	(BTUH)	39,000	52,000	52,000	65,000	78,000			
OUTPUT CAPACITY	High Heat	(BTUH)	58,000	77,000	76,000	97,000	116,000			
(BTUH) [†]	Low Heat	(BTUH)	38,000	50,000	50,000	63,000	75,000			
CERTIFIED TEMPERATUR	RE RISE	High Heat	` ′	40 - 70 (22 - 39)	40 - 70 (22 - 39)	40 - 70 (22 - 39)	40 - 70 (22 - 39)			
RANGE - °F (°C)		Low Heat	25 - 55 (14 - 31)	25 - 55 (14 - 31)	25 - 55 (14 - 31)	30 - 60 (17 - 33)	30 - 60 (17 - 33)			
		Upflow	97.0	97.0	97.0	97.0	97.0			
AFUE [†]		Downflow	95	95	95	95	95			
		Horizontal	96.3	96.2	96.7	96.2	96.7			
AIRFLOW CAPACITY AND	BLOWER DA	TA								
Rated Certified External S	tatic Pres-	Heating	0.12	0.15	0.15	0.2	0.2			
sure, in. w.c.		Cooling	0.5	0.5	0.5	0.5	0.5			
		High Heat	984	1255	1250	1616	2014			
Airflow CFM @ Rated ESP	CFM) [‡]	Low Heat	897	1111	1100	1280	1495			
		Cooling	1270	1350	1985	2165	2190			
Casling Conseits (tons)		400 CFM/ton	3	3.5	4.5	5	5.5			
Cooling Capacity (tons)		350 CFM/ton	3.5	4	5.5	6	6			
Direct Drive Motor Type				Electronica	ally Commutated M	otor (ECM)				
Direct Drive Motor HP			3/4	3/4	1	1	1			
Motor Full Load Amps			8.8	9.2	11.5	11.5	11.0			
RPM Range					300 - 1300		1			
Heating Blower Control (H	Ita Off-Delay)		Adjustable: 90, 120 (factory set), 150, 180 seconds							
Cooling Blower Control (T	<u> </u>	lav)	Adjustable: 90 (factory-set), 5, 30, 60 seconds							
Blower Wheel Diameter x			11 x 8	11 x 8	11 x 10	11 x 10	11 x 11			
	•••• • • • • • • • • • • • • • • • • •		11 % 0				11 X 11			
Air Filtration System	att Data		Field Supplied Filter							
Filter used for Certified W	att Data				325531-40**					
ELECTRICAL DATA		Valta III- Di			445.00.4					
Input voltage		Volts-Hz-Ph			115-60-1					
Operating Voltage Range		Min-Max	10.4	10	104-127	10.0				
Maximum Unit Amps			10.1	10	13.1	13.2	11.9			
Unit Ampacity			13.5	13.4	17.3	17.4	15.7			
Maximum Wire Length			_	T .	T	T	I			
Measure 1 way in Ft		Feet		27	33	33	36			
(M)		Meters		8.2	10.1	10.1	11			
Minimum Wire Size		AWG		14	12	12	12			
Max. Fuse/Ckt Bkr Size (Time-Delay Type Recomn	nended)	Amps	15	15	20	20	20			
Transformer Capacity (24	VAC output)				40VA					
External Control Power Av	vailable	Heating			24VA					
		Cooling			35VA					

Table 1 – SPECIFICATIONS (Continued)

	UNIT SIZE	060C17-16	080C17-16	080C21-20	100C21-22	120C24-22			
GAS CONTROLS									
Burners		3	4	4	5	6			
Gas Connection Size		1/2in. NPT							
Gas Valve (Redundant)	Mfr	WhiteRodgers™							
Min. inlet pressure	(in.w.c.)	4.5 (Natural Gas)							
Max. inlet pressure	(in.w.c.)	13.6 (Natural Gas)							
Manufactured (Mobile Home Kit)		See Accessory Listing							
Ignition Device		Silicon Nitride							
Factory installed orifice		44	44	44	44	44			
CONNECTIONS									
Communication System		Infinity®; Infinity® Zoning							
Thermostat Connections		R, W/W1, W2, Y/Y2, Y1, G Com 24V, DHUM							
Accessory Connections		EAC-1 (115 VAC); HUM (24 VAC); 1-STG AC (via Y/Y2); 2-STG AC (cia Y/Y2 and Y1)							

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

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

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

*** See Accessory List for part numbers available.

Air Delivery (CFM) with Filter

Table 2 - 060C17-16 Airflow in CFM

										1			
Setting		1				(in.w.	c.)						
	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1			
1*	45	50											
2	48	38											
3		525											
4		555											
5		6	00			†							
6			65	0									
7				700									
8				740									
9				80	0								
10					87	5							
11		925											
12		975											
13 [‡]		1000											
14		1050											
15		1138											
16						1200							
17						1225							
18						1300							
19**					1400				1375	1340			
20				1480			1450	1415	1375	1340			
21		1600)	1555	1525	1490	1450	1415	1375	1340			
Constant				Settin	gs 1 - 9	9 ([*] 450	- 800	cfm)					
Fan Airflow (cfm)			Setti	ngs ab	ove 9	are no	t recor	nmenc	led				
		Heat Stage											
Setting			Lo	w		High							
Comfort 1			71	0		820							
Comfort 2 ^{††}		795 898											
Efficiency 1			89	7				984					
Efficiency 2			95	8				1100					

- *. Constant fan default
- †. Operation in this range is not recommended because high heat operation will exceed 1.0" w.c. ESP.
- Low cooling default
 **. High cooling default
 ††. Heating default

Table 3 – 080C17–16 Airflow in CFM

	Table 3 – 080C17–16 Airflow in CFM										
Setting					ESP	(in.w.	c.)				
	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	
1*	450										
2	488										
3	52	25									
4	55	55									
5	60	00					t				
6		650									
7		700									
8		7	40								
9		800									
10		875									
11		925									
12		975									
13 [‡]		1000									
14				•	1050						
15					113	8					
16					•	1200					
17						1225					
18						1300					
19**					140	0		1		1375	
20				148				1460	1415	1375	
21		16	300		1585	1540	1500	1460	1415	1375	
Constant Fan Airflow				Setting	js 1 - 4	(*450	- 555	cfm)			
(cfm)			Settii	ngs ab	ove 4	are no	t recon	nmend	ed		
					Hea	t Stag	е				
Setting			Lov	v		High					

	Heat Stage								
Setting	Low	High							
Comfort 1	888	1062							
Comfort 2 ^{††}	1009	1160							
Efficiency 1	1111	1255							
Efficiency 2	1111	1408							

- *. Constant fan default
- Operation in this range is not recommended because high heat operation will exceed 1.0" w.c. ESP.
- Low cooling default
 **. High cooling default
 ††. Heating default

Table 4 - 080C21-20 Airflow in CFM

Table 4 – 080C21–20 Airflow in CFM													
Setting					ESP	(in.w.	c.)						
	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1			
1*		650											
2		700											
3		7	40			t							
4		800											
5				875									
6				925									
7				97	5								
8					1000								
9		1050											
10						1138							
11		1200											
12		1225											
13 [‡]		1300											
14		1400											
15		1480											
16						1600							
17						1625							
18**						1750							
19						1850							
20					191	10				1880			
21				200	00			1965	1925	1880			
Constant			;	Setting	gs 1 - 6	650°s (- 925	cfm)					
Fan Airflow (cfm)		;	Settir	ngs ab	ove 6	are no	t recor	nmend	ded				
					Hea	at Stag	je						
Setting			Lov	N				High					
Comfort 1			853	3				1032					
Comfort 2 ^{††}			950	0				1122					
Efficiency 1			110	0				1250					
		1200											

	Heat Stage							
Setting	Low	High						
Comfort 1	853	1032						
Comfort 2 ^{††}	950	1122						
Efficiency 1	1100	1250						
Efficiency 2	1100	1390						

- *. Constant fan default
- Operation in this range is not recommended because high heat operation will exceed 1.0" w.c. ESP.
- ‡. Low cooling default
 **. High cooling default
 ††. Heating default

Table 5 – 100C21-22 Airflow in CFM

	Table 5 – 100C21–22 Airflow in CFM									
Setting					ESP	(in.w.	c.)			
	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
1*	650									
2	700									
3	74	740								
4	80	00								
5		875					†			
6		925								
7		9	75							
8	1000									
9		1050								
10			113	8						
11				1200						
12				1225						
13	1300									
14 [‡]		1400								
15		1480								
16						1600				
17						1625				
18						1750				
19						1850				
20**					191	0				1865
21				200	00			1950	1910	1865
22		2	110		2075	2040	2000	1950	1910	1865
Constant			S	etting	s 1 - 9	([*] 650	- 1050	cfm)		
Fan Airflow (cfm)			Settir	ngs ab	ove 9	are no	t recor	nmen	ded	
, ,										
					Hea	ıt Stag	je			
Setting			Lov	N			•	High		
Comfort 1			101	1				1356		
						l				

*. Constant fan default

Comfort 2^{††}

Efficiency 1

Efficiency 2

†. Operation in this range is not recommended because high heat operation will exceed 1.0" w.c. ESP.

1489

1616

1820

1119

1280

1400

- Low cooling default
 **. High cooling default
 ††. Heating default

Table 6 – 120C24-22 Airflow in CFM

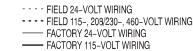
	lab	Table 6 – 120C24–22 Airflow in CFM											
Setting					ESP	(in.w.	c.)						
	0.1	0.2	0.3	0.4	0.5	0.6	0.7	8.0	0.9	1			
1*	650									•			
2	700												
3	740												
4	800												
5	87	75											
6	92	25											
7	97	75											
8	10	00											
9		1050)				†						
10		1138	1138										
11		1200											
12		1225											
13 [‡]		13	300										
14		1400											
15		1480											
16				160	0								
17				162	:5								
18**					1750								
19						1850							
20					191	0				1860			
21				200	0			1960	1910	1860			
22			211	0		2065	2015	1960	1910	1860			
Constant Fan Airflow			5	Setting	ıs 1 - 3	(*650	- 740	cfm)					
(cfm)		;	Settin	gs ab	ove 3 a	are no	t recor	nmen	ded				
	Heat Stage												
Setting			Lov	,				High					
Comfort 1			118	5		1682							
Comfort 2 ^{††}			133	0				1851					
Efficiency 1			149	5				2014					
Efficiency 2			149	5				2110					
•													

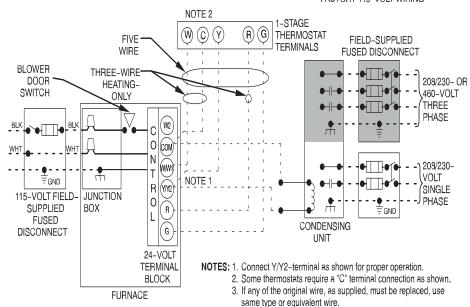
*	Constant fo	n default

^{*.} Constant fan default
†. Operation in this range is not recommended because high heat operation will exceed 1.0" w.c. ESP.
‡. Low cooling default
**. High cooling default
††. Heating default

0

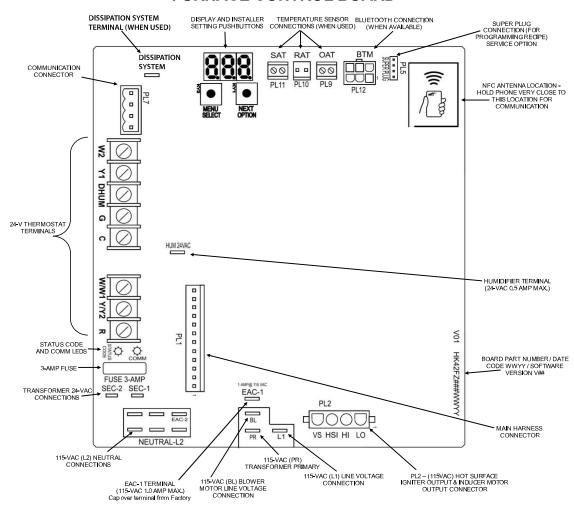
TYPICAL WIRING SCHEMATIC





A11401

FURNACE CONTROL BOARD



A230451

MAXIMUM ALLOWABLE EXPOSED VENT LENGTHS INSULATION TABLE

Maximum Allowable Exposed Vent Length in Unconditioned Space - Ft.

					-	•			-			
						60,000	BTUH					
		Unins	ulated			3/8-in. Ir	sulation			1/2-in. In	sulation	
Winter	1 1/2	2	2 1/2	3	1 ½	2	2 1/2	3	1 ½	2	2 1/2	3
Design Temp	20	30	30	25	20	75	65	60	20	85	75	65
°F	15	15	10	10	20	40	30	25	20	45	40	30
	10	5			20	25	20	15	20	30	25	20
	5				20	15	15	10	20	20	15	10

	J						20		13		13		10		20			13		10
	Unit Cine									80,	,000	вти	Н							
Winter	Unit Size			Unir	rsulate	ed				3/8-iı	n. Ir	nsulat	ion			1	/2-in. I	nsulat	ion	
Design	Pipe Dia. in.	1 1/2	2 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
Temp	20	15	4	0	40	35	30	1	5	50	Ç	90	75	65	15	50)	70	70	70
°F	0	15	2	20	15	10	5	1	5	50		15	35	30	15	50) :	50	40	35
•	-20	15	1	0	5			1	5	35	3	30	20	15	15	40) :	30	25	15
	-40	10		5				1	5	25	(4	20	15	5	15	30) :	25	20	10
	Unit Size									100	,000	BTU	Н							
	Unit Size			Unin	sulate	d				3/8-ir	ı. Ir	sulat	ion			1.	/2-in. l	nsulati	on	
Winter	Pipe Dia. in.	2		2 ½	- ;	3	4		2	2 1/2	2	3		4	2		2 1/2	3		4
Design	20	20		50	4	0	35	2	20	80		95	5	80	20		80	10	5	90
Temp °F	0	20		20	1	5	10	2	20	55		45	5	35	20		65	55	5	45
	-20	15		10	į	5		2	20	35		30)	20	20		45	35	5	25
	-40	10		5				2	20	25		20)	10	20		30	25	5	15
	Unit Size				120	,000 B	TUH						•		140,	000* B	TUH			
	Unit Size	Uni	insula	ted	3/8-iı	n. Insu	lation	1/2-ir	ı. Insı	ulation		Ur	ninsula	ited	3/8-in	. Insu	lation	1/2-iı	n. Insu	ılation
Winter	Pipe Dia. in.	2 1/2	3	4	2 1/2	3	4	2 1/2	3	4		2 1/2	3	4	2 1/2	3	4	2 1/2	3	4
Design	20	10	50	40	10	75	95	10	75	105		5	55	50	5	65	105	5	65	125
Temp °F	0	10	20	15	10	55	45	10	65	50		5	25	15	5	65	50	5	65	60
	-20	10	10		10	35	25	10	45	30		5	10	5	5	45	30	5	50	40
	-40	10	5		10	25	15	10	30	20		5	5		5	30	20	5	35	25

Maximum Allowable Exposed Vent Length in Unconditioned Space - Meters

						60,0	00 BTUH					
		Unins	ulated			3/8-in. lr	nsulation			1/2-in. l	nsulation	
Winter	38	51	64	76	38	51	64	76	38	51	64	76
Design	6.1	9.1	9.1	7.6	6.1	22.9	19.8	18.3	6.1	25.9	22.9	19.8
Temp °C	4.6	4.6	3.0	3.0	6.1	12.2	9.1	7.6	6.1	13.7	12.2	9.1
	3.0	1.5			6.1	7.6	6.1	4.6	6.1	9.1	7.6	6.1
	1.5				6.1	4.6	4.6	3.0	6.1	6.1	4.6	3.0

	Unit Size							80,	000 BT	UH						
	Unit Size		Ur	ninsulat	ed			3/8-iı	n. Insul	ation			1/2-iı	n. Insul	ation	
Winter	Pipe Dia. mm	38	51	64	76	102	38	51	64	76	102	38	51	64	76	102
Design	-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
Temp °C	-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
	Unit Size				•			100	,000 BT	UH						
	Offic Size		Un	insulat	ed			3/8-iı	n. Insul	ation			1/2-i	n. Insul	ation	
Winter	Pipe Dia. mm	51	64		76	102	51	64		76	102	51	64	ı	76	102
Design	-7	6.1	15.2	2 1	2.2	10.7	6.1	24.	4 2	28.9	24.4	6.1	24.	4 :	32.0	27.4
Temp °C	-18	6.1	6.1	4	1.6	3.0	6.1	16.	8 1	3.7	10.7	6.1	19.	8	16.7	13.7
	-29	4.6	3.0) /	1.5		6.1	10.	7 !	9.1	6.1	6.1	13.	7	10.7	7.6
	-40	3.0	1.5	5			6.1	7.6	6 (6.1	3.0	6.1	9.1	1	7.6	4.6

	Unit Size				120,	000 B	TUH							140,	000* B	TUH			
	Unit Size	Uni	insula	ted	3/8-in	. Insu	lation	1/2-ir	ı. Insu	lation	Un	insulat	ted	3/8-ir	ı. Insul	ation	1/2-in	. Insul	ation
Winter	Pipe Dia. mm	64	76	102	64	76	102	64	76	102	64	76	102	64	76	102	64	76	102
Design	-7	3.0	15.2	12.2	3.0	22.9	28.9	3.0	22.9	32.0	1.5	16.7	15.2	1.5	19.8	32.0	1.5	19.8	38.1
Temp °C	-18	3.0	6.1	4.6	3.0	16.8	13.7	3.0	19.8	15.2	1.5	7.6	4.6	1.5	19.8	15.2	1.5	19.8	18.3
	-29	3.0	3.0		3.0	10.7	7.6	3.0	13.7	9.1	1.5	3.0	1.5	1.5	13.7	9.1	1.5	15.2	12.2
	-40	3.0	1.5		3.0	7.6	4.6	3.0	9.1	6.1	1.5	1.5		1.5	9.1	6.1	1.5	35	7.6

^{*} Not all model families have these sizes

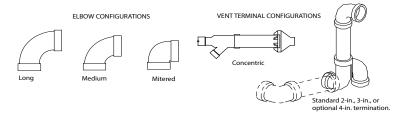
MAXIMUM EQUIVALENT VENT LENGTH

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.

Maximum Equivalent Vent Length

					Max	ximum	Equiva	lent Ve	nt Leng	gth -Ft.							
Uni	it Size		60,0	000*				80,000 ¹				100,	000 [‡]			120,000)
	Pipe Dia. (in)	1 ½	2	2 ½	3	1 1/2	2	2 ½	3	4	2	2 ½	3	4	2 ½	3	4
	0-2000	50	100	175	200	30	95	130	175	200	45	80	175	200	10	75	185
	2001-3000	45	95	165	185	30		125	165	185	40	75	165	185	10	70	175
	3001-4000	40	90	155	175	25		115	155	175	38	73	155	175	5	65	165
Altitude	4001-4500	35	85	150	170	23	70	110	150	165	36		133	170			160
(feet)	4501-5000		80	130	165	22	10	110	145	160		70	150	165		60	
(leet)	5001-6000	37	75	140	155			100	135	150	33	10	140	155			155
	6001-7000	35	70	130	145	20		90	125	140	31		135	145	N/A	50	140
	7001-8000	32	66	120	135	18	66		120	125	29	66	125	135		46	130
	8001-9000	30	62	115	125	17	62	80	110	115	27	62	115	125		43	120
	9001-10000	27	57	105	115	15	57	75	100	105	24	57	100	115		39	115
					Maxin	num Eq	•			- Mete	rs						
Uni	it Size		60,0	000 [*]				80,000 ¹	•			100,	000 [‡]			120,000)
	Pipe Dia.	38	51	64	76	38	51	64	76	102	51	64	76	102	64	76	102
	(mm)	30	31	04	70	30	31	04	10	102	31	04	70	102	04		
	0-610	15.2	30.4	53.3	60.9	9.1	28.9	39.6	53.3	60.9	13.7	24.3	53.3	60.9	3.0	22.8	56.3
	611-914	13.7	28.9	50.2	56.3	9.1		38.1	50.2	56.3	12.1	22.8	50.2	56.3	3.0	21.3	53.3
	915-1219	12.1	27.4	47.2	53.3	7.6		35.0	47.2	53.3	11.5	22.0	47.2	53.3	1.5	19.8	50.2
Altitude	1220-1370	10.6	25.9	45.7	51.8	7.0	21.3	33.5	45.7	50.2	10.9			51.8			48.7
(meters)	1371-1524		24.3		50.2	6.7	21.5		44.1	48.7		21.3	45.7	50.2		18.2	
	1525-1829	11.2	22.8	42.6	47.2			30.4	41.1	45.7	10.0	21.5	42.6	47.2			47.2
	1830-2134	10.6	21.3	39.6	44.1	6.0		27.4	38.1	42.6	9.4		41.1	44.1	NA	15.2	42.6
	2135-2438	9.7	20.1	36.5	41.1	5.4	20.1		36.5	38.1	8.8	20.1	38.1	41.1		14.0	39.6
	2439-2743	9.1	18.8	35.0	38.1	5.1	18.8	24.3	33.5	35.0	8.2	18.8	35.0	38.1		13.1	36.5
	2744-3048	8.2	17.3	32.0	35.0	4.5	17.3	22.8	30.4	32.0	7.3	17.3	30.4	35.0		11.8	35.0

- *. 60K Inducer Outlet Restrictor disk (P/N 337683-401; 1.25-in. (32 mm) Dia.) available through Replacement Components is required in all orientations for installations from 0–2000 ft (0–610 M) above sea level and where TEVL is no greater than 5-ft. (1.5 M).
- †. 80K Inducer Outlet Restrictor disk ([P/N 337683-401; 1.25-in. (32 mm) Dia.] available through Replacement Components is required in upflow orientation for installations from 0–2000 ft (0–610 M) above sea level and where TEVL is no greater than 5-ft. (1.5 M).
- ‡. 100K Inducer Outlet Restrictor disk (P/N 337683-402; 1.50-in. (38 mm) Dia.) available through Replacement Components is required in all orientations for installations from 0–2000 ft (0–610 M) above sea level and where TEVL is no greater than 5-ft. (1.5 M).



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	(8.0)	2.5	(8.0)	2.5	(8.0)	2.5	(8.0)	2.5	(8.0)
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	ı	NA	0	(0.0)	N	İΑ	0	(0.0)	N	ÍΑ
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.
- 9. A running Tee in the Combustion Air Pipe adds 0 ft. to the TEVL of the vent length.

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 Maximum Equivalent Vent Length.

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 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?

				70 ft.	Use length of the longer of the vent
				(22 M)	or air inlet piping system
3	x	3 ft. (0.9 M)	=	9 ft. (2.7 M)	From Deductions from Maximum Equivalent Vent Length
2	x	1.5 ft. (0.5 M)	=	3 ft. (0.9 M)	From Deductions from Maximum Equivalent Vent Length
				0 ft.	From Deductions from Maximum Equivalent Vent Length
				0 ft.	From Vent Manufacturer's instructions; zero for PVC/ABS DWV
				82 ft. (25 M)	Add all of the above lines
				95 ft.	For 2" pipe from Maximum Equivalent Vent
				(29 M)	Length
				YES	Therefore, 2" pipe MAY be used
			3 X (0.9 M)	3 X (0.9 M) =	3 x 3 ft. (0.9 M) = 9 ft. (2.7 M) 2 x 1.5 ft. (0.5 M) = 3 ft. (0.9 M) 0 ft. 0 ft. 82 ft. (25 M)

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.

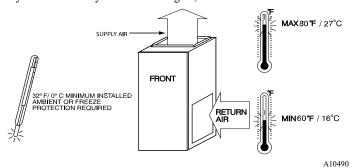
VERIFY FROM POLYPROPYLENE VENT MANUFACTURER'S INSTRUCTIONS for the multiplier correction for flexible vent pipe.

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

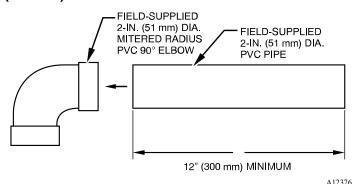
ean this application as commit o.a. (2) porpprop	jiene ii	om pipin	.g. 11 110t, "	mat biz	e piping can be t	.sou.
Measure the required linear length of RIGID air in				=	80 ft.	Use length of the longer of the vent
longest of the two here: 100 ft. Of rigid pipe	- 20 II. C	וועואפוו זכ	e pipe		(24 M)	or 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)	
Add equiv length of 45° long-radius elbows (use the highest number of elbows for either the vent or inlet pipe)	0	х		=	0 ft. (0 M)	Example from polypropylene vent manufacturer's instructions, Verify from vent manufacturer's instructions.
Add equiv length of factory concentric vent term	9	x	3.3 ft (0.9 M)	=	30 ft. (9 M)	manulacturer's instructions.
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 IN	STRUC [*]	TIONS; I	For example	e only,	assume 1 meter o	of flexible 60mm (2") or 80mm (3") polypropylene
	pipe e	quals 2.0	meters (6.	5 ft.) of	PVC/ABS pipe.	
Total Equivalent Vent Length (TEVL)					165 ft. (50 M)	Add all of the above lines
Maximum Equivalent Vent Length (MEVL)					95 ft. (29 M)	For 2" pipe from Maximum Equivalent Vent Length
Is TEVL less than MEVL?					NO	Therefore, 60mm (2") pipe may NOT be used try 80mm (3")
Maximum Equivalent Vent Length (MEVL)					185 ft.	For 3" pipe from Maximum Equivalent Vent
waxiinum Equivalent vent Length (MEVL)					(57 M)	Length
Is TEVL less than MEVL?					YES	Therefore, 80mm (3") pipe MAY be used

RETURN AIR TEMPERATURE

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

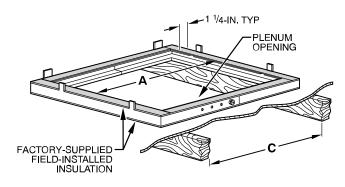


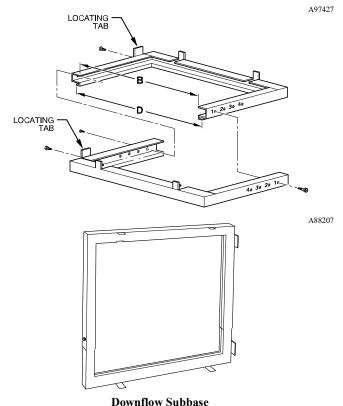
COMBUSTION-AIR PIPE FOR NON-DIRECT (1-PIPE) VENT APPLICATION



NOTE: See Installation Instructions for specific venting configurations.

DOWNFLOW SUBBASE





A8820

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

	DIM	IENSIONS (IN. /	MM)			
FURNACE		PLENUM O	PENING [*]	FLOOR C	PENING	HOLE NO. FOR
CASING WIDTH	FURNACE IN DOWNFLOW APPLICATION	Α	В	С	D	WIDTH ADJUSTMENT
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

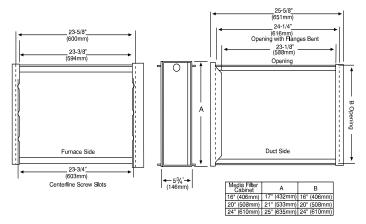
^{*.} The plenum should be constructed 1/4-in. (6 mm) smaller in width and depth than the plenum dimensions shown above.



and the tent tent

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.

MEDIA FILTER CABINET (OPTIONAL ACCESSORY)



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

ACCESSORIES DESCRIPTION	ACCESSORY PART NUMBER	060C17-16	080C17-16	080C21-20	100C21-22	120C24-22
Condensate Neutralizer Kit	P908-0001*	Х	Х	Х	Х	Х
Gas Valve Tower Port Adapter Kit	92-1003 [*]	Х	Х	_	_	_
External Filter Rack, 14-1/2" x 25"	ACG1425NCB*	_	_	_	_	_
External Filter Rack, 16" x 25"	ACG1625NCF*	X	Х	_	_	_
External Filter Rack, 20" x 25"	ACG2025NCJ*	_	_	Х	Х	_
External Filter Rack, 24-1/2" x 24"	ACG2424NCL*	_	_	_	_	Х
Washable filter, 3/4" x 16" x 25"	325531-402*	х	Х	_	_	_
Washable filter, 3/4" x 20" x 25"	325531-403 [*]	_	_	Х	Х	_
Washable filter, 3/4" x 24" x 25"	325531-404 [*]	_	_	_	_	Х
Coil Adapter Kits - No Offset	KGADA0101ALL	Х	Х	Х	Х	Х
Coil Adapter Kits - Single Offset	KGADA0201ALL	X	X	Х	Х	Х
Coil Adapter Kits - Double Offset	KGADA0301ALL	X	Х	Х	Х	Х
Return Air Base (Upflow Applications) 14-3/16" wide	KGARP0301B14	_	_	-	-	_
Return Air Base (Upflow Applications) 17-1/2" wide	KGARP0301B17	Х	Х	_	_	_
Return Air Base (Upflow Applications) 21" wide	KGARP0301B21	_	-	Х	Х	_
Return Air Base (Upflow Applications) 24-1/2" wide	KGARP0301B24	_	_	_	_	Х
Vent Terminal - Concentric - 2" (51 mm)	KGAVT0701CVT					
Vent Terminal - Concentric - 3" (76 mm)	KGAVT0801CVT		,			
Vent Terminal Bracket - 2" (51 mm)	KGAVT0101BRA		,	See Venting Table	S	
Vent Terminal Bracket - 3" (76 mm)	KGAVT0201BRA					
Vent Kit - Through the Cabinet for HZ left/right ONLY	KGADC0101BVC	х	х	х	X	x
Polypropylene Inlet Air Pipe Coupling	KGAAC0101RVC	X	X	X	Х	Х
Freeze Protect Kit - Condensate Drain Line Tape	KGAHT0101CFP	X	X	X	X	X
Freeze Protect Kit - Condensate Trap with Heat Pad	KGAHT0201CFP	X	X	X	X	X
CPVC to PVC Drain Adapters - 1/2" CPVC to 3/4" PVC	KGAAD0110PVC	X	X	X	X	X
External Trap Kit	KGAET0201ETK	X	X	X	X	Х
Horizontal Trap Grommet - Direct Vent	KGACK0101HCK			II 2-Pipe Horizont	al	
Downflow Furnace Base Kit for Combustible Floors	KGASB0201ALL	X	X	X	X	X
IAQ Device Duct Adapters 20.0-in. IAQ to 16 in. Side Return	KGAAD0101MEC		2	0"x25" IAQ Device	es	
IAQ Device Duct Adapters 24.0-in. IAQ to 16 in. Side Return	KGAAD0201MEC		2	4"x25" IAQ Device	es	
Gas Conversion Kit - Nat to LP [†]	AGAGC9NPS01E*	X	Х	X	Х	Х
Gas Conversion Kit - LP to Nat [†]	AGAGC9PNS01E*	X	Х	Х	X	Х
Infinity®; Infinity® Zoning	SYSTXCC	Х	Х	Х	Х	Х

^{*.} Purchased through Replacement Components

^{†.} Factory-authorized and field installed. Fuel conversion kits are CSA (formerly AGA/CGA) recognized.

X = Accessory

ACCESSORIES (continued)

DESCRIPTION	ACCESSORY PART NUMBER	
Gas Orifice Kit - #42 (Nat Gas)	LH32DB207	
Gas Orifice Kit - #43 (Nat Gas)	LH32DB202	
Gas Orifice Kit - #44 (Nat Gas)	LH32DB200	
Gas Orifice Kit - #45 (Nat Gas)	LH32DB205	
Gas Orifice Kit - #46 (Nat Gas)	LH32DB208	
Gas Orifice Kit - #47 (Nat Gas)	LH32DB078	See Installation Instructions for model,
Gas Orifice Kit - #48 (Nat Gas)	LH32DB076	altitude, and heat value usages.
Gas Orifice Kit - #54 (LP)	LH32DB203	
Gas Orifice Kit - #55 (LP)	LH32DB201	
Gas Orifice Kit - #56 (LP)	LH32DB206	
Gas Orifice Kit - 1.25mm (LP)	LH32DB209	
Gas Orifice Kit - 1.30mm (LP)	LH32DB210	

DESCRIPTION	ACCESSORY PART NUMBER
HUMIDIFIER	Model HUM
HEAT RECOVERY VENTILATOR	Model HRV
ENERGY RECOVERY VENTILATOR	Model ERV
UV LIGHTS	Model UVL

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

DESCRIPTION	ACCESSORY PART NUMBER	17"	21"	24"
Carrier Carbon Monoxide Alarm (10 pack)	COALMCCNRB02-A10	Х	Х	Х
Carrier Infinity Air Purifier - 16" x 25" (407 x 635 mm)	DGAPAXX1625	Х	-	-
Carrier Infinity Air Purifier - 20" x 25" (508 x 635 mm)	DGAPAXX2025	-	Х	Х
Carrier Infinity Air Purifier Repl. Filter- 16" x 25" (407 x 635 mm)	PGAPXCAR1625A02	Х	-	-
Carrier Infinity Air Purifier Repl. Filter- 20" x 25" (508 x 635 mm)	PGAPXCAR2025A02	-	Х	Х
Cartridge Media Filter - 16" (407 mm) (MERV 11)	FILXXCAR0116	Х	-	-
Cartridge Media Filter - 16" (407 mm) (MERV 8)	FILXXCAR0016	Х	-	-
Cartridge Media Filter - 20" (508 mm) (MERV 8)	FILXXCAR0020	-	Х	-
Cartridge Media Filter - 20" (508 mm) (MERV11)	FILXXCAR0120	-	Х	-
Cartridge Media Filter - 24" (610 mm) (MERV 8)	FILXXCAR0024	-	-	Х
Cartridge Media Filter - 24" (610 mm) (MERV11)	FILXXCAR0124	-	_	Х
EZ Flex Cabinet Side or Bottom - 16"	EZXCAB0016	Х	_	-
EZ Flex Cabinet Side or Bottom - 20"	EZXCAB0020	-	Х	Х
EZ Flex Replacement Filters 16" MERV 10	EXPXXFIL0016	Х	-	-
EZ Flex Replacement Filters 16" MERV 13	EXPXXFIL0316	Х	_	-
EZ Flex Replacement Filters 20" MERV 10	EXPXXFIL0020	-	Х	-
EZ Flex Replacement Filters 20" MERV 13	EXPXXFIL0320	-	Х	-
EZ Flex Replacement Filters 24" MERV 10	EXPXXFIL0024	-	-	Х
EZ Flex Replacement Filters 24" MERV 13	EXPXXFIL0324	-	_	Х
EZ-Flex Filter with End Caps - 16" (407 mm) (MERV 10)	EXPXXUNV0016	Х	-	-
EZ-Flex Filter with End Caps - 16" (407 mm) (MERV 13)	EXPXXUNV0316	Х	_	-
EZ-Flex Filter with End Caps - 20" (508 mm) (MERV 10)	EXPXXUNV0020	-	Х	-
EZ-Flex Filter with End Caps - 20" (508 mm) (MERV 13)	EXPXXUNV0320	-	Х	-
EZ-Flex Filter with End Caps - 24" (610 mm) (MERV 10)	EXPXXUNV0024	-	_	Х
EZ-Flex Filter with End Caps - 24" (610 mm) (MERV 13)	EXPXXUNV0324	-	_	Х
Media Filter Cabinet - 20"	FILCABXL0020	-	Х	-
Media Filter Cabinet - 24"	FILCABXL0024	-	_	Х
Media Filter Cabinet - 16"	FILCABXL0016	Х	_	-

GUIDE SPECIFICATIONS

General

System Description

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

Quality Assurance

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

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

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

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

Delivery, Storage, and Handling

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

Warranty (for inclusion by specifying engineer)

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

Equipment

Blower Wheel and ECM Blower Motor

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

Filters

Furnace shall have i	eusable-type filte	ers.			
Filter shall be	in. (mm) x	in. (mm).			
An accessory high	y efficient Medi	a Filter is available as an o	ption		
Media Filter.					

Casing

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

Draft Inducer Motor

Draft inducer motor shall be single-speed PSC design.

Primary Heat Exchangers

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

Secondary Heat Exchangers

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

Controls

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

Operating Characteristics

Heating	capacity	shall	be		Btuh	input;
	Bt	uh outp	ut cap	acity.		
Fuel Gas	Efficiency	shall be	;	AFUE.		
	ery shall be static pressu			cfm minimum	at 0.50 i	n. W.C.
Dimensio	ons shall be	: depth		in. (mm); width	in	. (mm);
height	in. (mm) (c	asing o	only).		
-	all be		mm) v	vith A/C coil and	iı	n. (mm)

Electrical Requirements

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

Special Features

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

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