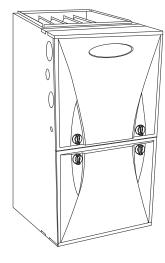
59MN7A Infinity® Modulating 4-Way Multipoise **Condensing Gas Furnace** Series 2



Product Data



A11263

The 59MN7A Multipoise Variable-Capacity Condensing Gas Furnace features the modulating Infinity® System. The innovative modulating gas valve is at the heart of this furnace's quiet operation, along with the variable-speed Infinity ECM blower motor and variable-speed inducer motor. This furnace also provides 3.5 times tighter temperature control than single stage furnaces. With an Annual Fuel Utilization Efficiency (AFUE) up to 98.5%, this Infinity gas furnace provides exceptional savings over standard furnaces as well. This Infinity Gas Furnace also features 4-way multipoise installation flexibility. The 59MN7A can be vented as a direct vent/two-pipe furnace or as an optional ventilated combustion air application. A Carrier Infinity® Control and an Infinity Air Conditioner or Heat Pump can be used to form a complete Infinity System. All units meet California Air Quality Management District emission requirements. All sizes are design certified in Canada.

STANDARD FEATURES

- Our quietest furnace. Compare for yourself at HVACpartners.com.
- All sizes meet ENERGY STAR Version 4.0 criteria for gas furnaces: 95+AFUE; AMACF electrical rating; 2% or less cabinet airflow leakage.
- Supports single- and multiple-zone Infinity systems.

- Ideal height 35" (889 mm) cabinet: short enough for taller coils, but still allows enough room for service.
- Infinity Features—match with the Infinity Control for Infinity System benefits
- Integral part of the Ideal Humidity System® Technology.
- Silicon Nitride Power Heat™ Hot Surface Igniter.
- SmartEvap[™] technology helps control humidity levels in the home when used with a compatible humidity control system.
- ComfortFan[™] technology allows control of continuous fan speed from a compatible thermostat.
- External Media Filter Cabinet included.
- 4-way multipoise design for upflow, downflow or horizontal installations, with unique vent elbow and optional throughthe-cabinet downflow venting capability.
- Variable-Speed blower and inducer motors, modulating gas
- · Self-diagnostics and extended diagnostic data through the Advanced Product Monitor (APM) accessory or Infinity User
- Adjustable blower speed for cooling, continuous fan, and dehumidification.
- Aluminized-steel primary heat exchanger.
- Stainless-steel condensing secondary heat exchanger.
- Propane convertible (See Accessory list).
- Factory-configured ready for upflow applications.
- Fully-insulated casing including blower section.
- Convenient Air Purifier and Humidifier connections.
- Direct-vent/sealed combustion or ventilated combustion air venting.
- Installation flexibility: sidewall or vertical vent.
- Residential installations may be eligible for consumer financing through the Retail Credit Program.
- Certified to leak 2% or less of nominal air conditioning CFM delivered when pressurized to 1-in. water column with all present air inlets, air outlets, and condensate drain port(s) sealed.

















	I	CASING NSION:	-	RATED H	IEATING OUT (BTUH)	PUT†	ı	HEATING AIRF	LOW	COOLING	MOTOR HP	MEDIA CABINET
SAP ORDERING NO.	н	D	w	Maximum	Minimum	AFUE	CFM‡ (Minimum Heating)	CFM (Maximum Heating)	Rated Heating ESP @ Maximum	CFM @ 0.5 ESP	(VARIABLE SPEED)	SUPPLIED (IN.)
59MN7A060V1714	35	29.5	17.5	59,000	24,000	97.4%	415	1075	0.12	510 - 1335	1/2	16
59MN7A060V2120	35	29.5	21.0	60,000	24,000	98.5%	555	1085	0.12	510 - 1905	1	20
59MN7A080V1714	35	29.5	17.5	78,000	31,000	97.4%	620	1500	0.15	490 - 1375	1/2	16
59MN7A080V2120	35	29.5	21.0	78,000	31,000	97.2%	620	1345	0.15	750 - 1945	1	20
59MN7A100V2122	35	29.5	21.0	98,000	39,000	97.3%	725	1575	0.20	715 - 2160	1	20
59MN7A120V2422	35	29.5	24.5	117,000	47,000	97.2%	900	1820	0.20	885 - 2185	1	24

†Capacity in accordance with DOE test procedures. Ratings are position dependent. See rating plate.

‡Minimum heat CFM when low-heat rise adjustment switch (SW 1-3) and comfort/efficiency adjustment switch (SW1-4) on control center are OFF.

ESP - External Static Pressure

FEATURES AND BENEFITS

Greenspeed™ Intelligence — Adaptable-speed technology paired with Infinity®intelligence, our new technology takes into account a home owner's complete comfort. It provides precise comfort by adjusting the heating demands of the home. This translates into reduced energy use and reduced temperature swings. Integrating luxury-level comfort control into a home so smoothly and quietly, you'll forget it's there.

Fully Modulating Gas Valve — When paired with the Infinity® control, this furnace improves comfort by adjusting heating output in 1% increments from 40% to 100% capacity to meet the heating needs of the home. Precision begins with a stepper motor to adjust manifold pressures. Stepper motors are used in electronic devices, such as computer disc drives, which require precise mechanical positioning. The precision of the stepper motor, combined with our unique two-point calibration, allows the modulating furnace to accurately control and directly deliver the right amount of gas to the burners every time.

Ideal Humidity System® Technology — The Ideal Humidity system actively controls both temperature and humidity in the home to provide the best comfort all year long. Other systems depend on heating or cooling demand to manage the moisture in the air. But, Ideal Humidity gives the homeowner the right amount of humidity day and night, even in mild weather. No other manufacturer can do this! Ideal Humidity saves energy, too. By keeping humidity under control, the homeowner can set their thermostat lower to stay comfortable and save energy.

SmartEvap ™ Technology — When paired with a compatible thermostat, this dehumidification feature overrides the cooling blower off-delay when there is a call for dehumidification. By deactivating the blower off-delay, SmartEvap technology prevents condensate that remains on the coil after a dehumidification cycle from re-humidifying throughout the home. This results in reduced humidity and a more comfortable indoor environment for the homeowner.

Unlike competitive systems, SmartEvap technology only overrides the cooling when humidity control is needed. Once humidity is back in control, SmartEvap re-enables the energy-saving cooling blower off-delay.

ComfortFan™ Technology — Sometimes the constant fan setting on a standard furnace system can actually reduce homeowner comfort by providing too much or too little air! Comfort Fan technology improves comfort all year long by allowing the homeowner to select the continuous fan speed of their choice using a compatible thermostat.

Power Heat™ Igniter — Carrier's 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 Carrier's tradition of technology leadership and innovation in providing a reliable and durable product.

Full-Featured, Communicating, Variable Speed Motors — Our ECMs (Electronically Commutated Motors) provide variable-speed operation to optimize comfort levels in the home year round;

features such as passive/active dehumidification, ramping profiles, constant air flow and quiet operation. They can provide cooling match enhancements to increase the effective SEER of select Carrier air conditioner or heat pump system, and feature the highest efficiency of all indoor fan motors.

Reliable Heat Exchanger Design — The aluminized steel, clam shell primary heat exchanger was re-engineered to achieve greater efficiency out of a smaller size. The first two passes of the heat exchanger are based on the current 80% product, a design with more than ten years of field-proven performance and success. These innovations, paired with the continuation of 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—a standard accessory on all deluxe furnaces. When installed as a part of the system, this cabinet allows for easy and convenient addition of a Carrier 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. The new heat exchanger design allows these units to achieve the certified AFUE in all positions.

Direct Venting or Optional Ventilated Combustion Air — This furnace can be installed as a 2-pipe (Direct Vent) furnace or as an optional ventilated combustion air application. This provides added flexibility to meet diverse installation needs.

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. The acoustical insulation in the blower compartment reduces air and motor noise for quiet operation.

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.

Certifications — This furnace is CSA (AGA and CGA) design certified for use with natural and propane gases. The furnace is factory-shipped for use with natural gas. A CSA listed gas conversion kit is required to convert furnace for use with propane gas. The efficiency is AHRI efficiency rating certified. This furnace meets California Air Quality Management District emission requirements.

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 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.

Heating Ca	pacity and Efficiency		060-14	060-20	080-14	080-20	100-22	120-22
Input	Maximum Heat	(BTUH)	60,000	60,600	80,000	80,000	100,000	120,000
	Intermediate Heat	(BTUH)	39,000	39,000	52,000	52,000	65,000	78,000
	Minimum Heat	(BTUH)	24,000	24,000	32,000	32,000	40,000	48,000
Output	Maximum Heat	(BTUH)	59,000	60,000	78,000	78,000	98,000	117,000
•	Intermediate Heat	(BTUH)	38,000	39,000	51,000	51,000	64,000	76,000
	Minimum Heat	(BTUH)	24,000	24,000	31,000	31,000	39,000	47,000
		Maximum Hoot	35 - 65	35 - 65	40 - 70	40 - 70	45 - 75	45 - 75
		Maximum Heat	(19 - 36)	(19 - 36)	(22 - 39)	(22 - 39)	(25 - 42)	(25 - 42)
Certified Ter	mperature	Intermediate Heat	50 - 80	40 - 70	50 - 80	50 - 80	50 - 80	50 - 80
Rise Range	• °F (°C)	intermediate meat	(28 - 44)	` ,	(28 - 44)	(28 - 44)	` ,	(28 - 44)
		Minimum Heat						35 - 65
		Willimani ricat	(19 - 36)	(14-31)	(19 - 36)	(19 - 36)	(19 - 36)	(19 - 36)
A : 6!	" 151 5 1					1 000 00	1 400 00	100.00
	-							120-22
		ŭ		-				0.20
Pressure (in	1. W.C.)	ŭ						0.5
								1820
@ Rated ESP (CFM) Minimum Heat 415 555 620 595 Cooling 1335 1905 1375 1945 2 400 CFM/ton 3 4.5 3.5 4.5					1100			
@ Rated ES	Second Static Heating O.12 O.15 O.15 O.20			900				
	ut Maximum Heat			2185				
Cooling Cap	Maximum Heat			5.5				
Rated External Static Pressure (in. w.c.) Airflow Delivery Rated ESP (CFM) Rated External Static Rated External Static Rated External Static Rated Espect Electrical Data Rated Espect In Heating Rated Espect Intermediate Heat Rated					•		-	6
Airflow Delivery Intermediate Heat 530 690 750 @ Rated ESP (CFM) Minimum Heat 415 555 620 Cooling Cooling Capacity (tons) 400 CFM/ton 3 4.5 3.5 Direct-Drive Motor Type Electronically Commutat Direct-Drive Motor HP 1/2 1 1/2 Motor Full Load Amps 7.7 12.8 7.7 RPM Range 300 - 130 Speed Selections Variable (Commutation of the Commutation of the Commuta						CM)		
	Intermediate Heat 530 690 750 795 955 74					1		
	A00 CFM/ton 3 4.5 3.5 4.5 5.5 5 5 5 5 5 5 5 5							12.8
_								
		1	44 0				1 44 - 40	44 44
Blower whe	eei Dia x vvidtn	ın.	11 X 8					11 x 11
Air Filtration	System			Fac			τ	
Filter I lead t	for Certified Watt Data*							
i iilei Oseu i	Tor Certified Watt Data				NOAWI C	00110		
Electrical D	Data		060-14	060-20	080-14	080-20	100-22	120-22
		Volts-Hertz-Phase		000 20			100	
			9.7	14.8			14.8	14.8
		•						19.1
		· ·						12
								30
								(9.1)
_		` /	` ,	` ′	· ' '	· , ,	` ,	. ,
(Time-Delay	(Type Recommended)	Amps	15	20	15	20	20	20
		:)		•	40 VA	\		
Available					34.6 V	A		
		•						
Controls			060-14	060-20			100-22	120-22
			3	3			5	6
Gas Valve (gers		
		, ,						
		as pressure (in. wc)						
Twinning Kit					not approved fo			
Ignition Dev	rice				Silicon Ni	tride		

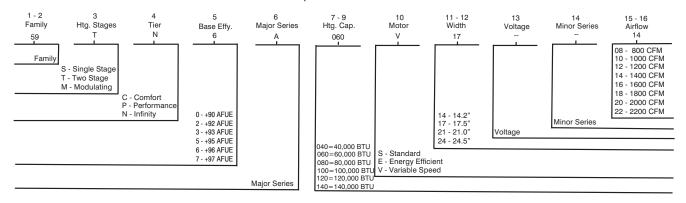
^{*} See Accessory List for part numbers available.

SPECIFICATIONS (CONTINUED)

Controls	060-14	060-20	080-14	080-20	100-22	120-22
Limit Control	180	160	170	200	180	160
Heating Blower Control (Heating Off-Delay)		Adjust	able: 90, 120	, 150, 180 se	econds	
Cooling Blower Control (Time Delay Relay)			90 se	conds		
Communication System			•	nity Zoning		
Thermostat Connections			W2 Y/Y2, Y			
Accessory Connections		EAC (115va	ac); HUM (24)	vac); 1-stg A	C (via Y/Y2)	

MODEL NUMBER NOMENCLATURE

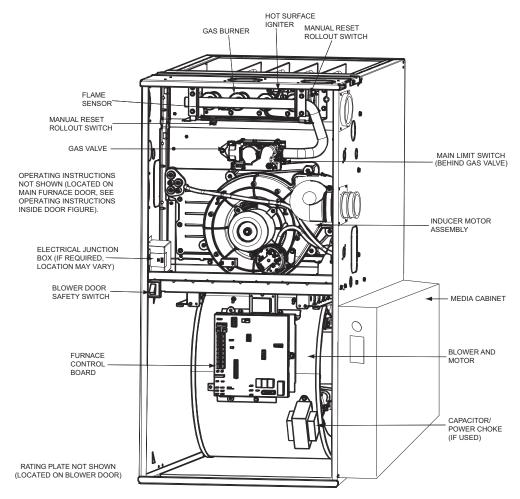
Example of Model Number



Not all familes have these models.

A12373

FURNACE COMPONENTS



REPRESENTATIVE DRAWING ONLY, SOME MODELS MAY VARY IN APPEARANCE.

ACCESSORIES

ACC	CESSORIES						
DESCRIPTION	PART NUMBER	060-14	060-20	080-14	080-20	100-22	120-22
Venting Accessories							,
Vent Kit - Through the Cabinet	KGADC0101BVC	•	•	•	•	•	•
Vent Terminal - Concentric - 2" (51 mm)	KGAVT0701CVT		•	•	•		
Vent Terminal - Concentric - 3" (76 mm)	KGAVT0801CVT		,	0 \/	Talala	_	
Vent Terminal Bracket - 2" (51 mm)	KGAVT0101BRA		,	See venti	ing Table	5	
Vent Terminal Bracket - 3" (76 mm)	KGAVT0201BRA						
Vent Kit - Rubber Coupling	KGAAC0101RVC			See Venti	ing Table	S	
Condensate Drainage Accessories					<u> </u>		
Freeze Protect Kit - Heat Tape	KGAHT0101CFP	•	•	•	•	•	•
CPVC to PVC Drain Adapters - 1/2" CPVC to 3/4" PVC	KGAAD0110PVC	•	•	•	•	•	•
Horizontal Trap Grommet - Direct Vent	KGACK0101HCK			All DV H	lorizontal	1	1
Condensate Neutralizer Kit	P908-0001	•	•	•	•	•	•
External Trap Kit	KGAET0201ETK	•	•	•	•	•	•
Ductwork Adapter Accessories		l .		1		1	
Furnace Base Kit for Combustible Floors	KGASB0201ALL	•	•	•	•	•	•
Coil Adapter Kits – No Offset	KGADA0101ALL	•	•	•	•	•	•
Coil Adapter Kits - Single Offset	KGADA0201ALL	•	•	•	•	•	•
Coil Adapter Kits - Double Offset	KGADA0301ALL	•	•	•	•	•	•
Return Air Base (Upflow Applications) 17.5–in. wide	KGARP0301B17	•	_	•	•	_	<u> </u>
Return Air Base (Upflow Applications) 11.0-in. wide	KGARP0301B21		•	_	•	•	
Return Air Base (Upflow Applications) 24.5-in. wide	KGARP0301B24		•		_	•	•
	KGARP0301B24 KGAAD0101MEC			O"OE" IA	O Davida		
IAQ Device Duct Adapters 20.0 – in. IAQ to 16 in. Side Return					Q Device		
IAQ Device Duct Adapters 24.0 – in. IAQ to 16 in. Side Return	KGAAD0201MEC		2	4"x25" IA	Q Device	es	
Gas Conversion Accessories		_		_			
Gas Conversion Kit - Nat to LP; Var-speed Products	KGCNP5201VSP	•	•	•	•	•	•
Gas Conversion Kit - LP to Nat; Var-speed Products	KGCPN4401VSP	•	•	•	•	•	•
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	•	•	•	•	•	•
Gas Orifice Kit - #48 (Nat Gas)	LH32DB076	•	•	•	•	•	•
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	•	•	•	•	•	•
Control Accessories	LITOLDBLIO		_		_		
ECM Motor Simulator Kit	KGBSD0301FMS	•	•	•	•	•	•
Advanced Product Monitor – APM	KGASD0301APM	•	•	•	•	•	•
Infinity® Touch Control – Wi–Fi	SYSTXCCITW01	•	•	•	•	•	•
				1			
Infinity® Touch Control – Non–Wi–Fi	SYSTXCCITN01	•	•	•	•	•	•
IAQ Accessories	I/O AVA/E4 000LIED						
Filter Pack (6 pack) – Washable - 16x25x1 (406x635x25 mm)	KGAWF1306UFR	•	•	•	•	•	•
Filter Pack (6 pack) — Washable - 24x25x1 (610x635x25 mm)	KGAWF1506UFR	•	•	•	•	•	•
EZ-Flex Filter - 16" (406 mm)	EXPXXFIL0016				XCAB-1		
EZ-Flex Filter - 20" (508 mm)	EXPXXFIL0020				XCAB-1		
EZ-Flex Filter - 24" (610 mm)	EXPXXFIL0024				XCAB-1		
EZ-Flex Filter with End Caps - 16" (406 mm)	EXPXXUNV0016				XCAB-1		
EZ-Flex Filter with End Caps - 20" (508 mm)	EXPXXUNV0020		Use	e with EZ	XCAB-1	020	
EZ-Flex Filter with End Caps - 24" (610 mm)	EXPXXUNV0024		Use	e with EZ	XCAB-1	024	
Cartridge Media Filter - 16" (406 mm)	FILXXCAR0016		Use	with FILO	CABXL-	1016	
Cartridge Media Filter - 20" (508 mm)	FILXXCAR0020		Use	with FILO	CABXL-	1020	
Cartridge Media Filter - 24" (610 mm)	FILXXCAR0024		Use	with FILO	CABXL-	1024	
Carrier Infinity Air Purifier - 16x25 (406x635 mm)	GAPAAXCC1625-A08			Up to 16	600 CFM		
Carrier Infinity Air Purifier - 20x25 (508x635 mm)	GAPAAXCC2025-A08			•	000 CFM		
Carrier Infinity Air Purifier Repl. Filter- 16x25 (406x635 mm)	GAPACCCAR1625-A05		G		C1625-A	.08	
Carrier Infinity Air Purifier Repl. Filter- 20x25 (508x635 mm)	GAPACCCAR2025-A05				C2025-A		
Carrier Performance Air Purifier - 16x25 (508x635 mm)	PGAPXX1625		- J		600 CFM		
Carrier Performance Air Purifier - 10x25 (500x055 mm)	PGAPXX2025				000 CFM		
Carrier Performance Air Purifier Repl Filter - 16x25 (406x635 mm)	PGAPAXXCAR1625				CC1625		
Carrier Performance Air Purifier Repl. Filter - 10x25 (400x035 mm) Carrier Performance Air Purifier Repl. Filter - 20x25 (508x635	I GAFAAACAN 1020			GAFAAA	1025		
	PGAPAXXCAR2025			GAPAAX	CC2025		
mm) • = Used with the model furnace							
 Lised with the model turnace 							

Used with the model furnace

AIR DELIVERY - CFM

Cooling⁴ and Heating Air Delivery - CFM (Bottom Return⁵ With Filter) (SW1-5 and SW4-3 set to OFF, except as indicated. See notes 1 and 2)

Unit Size													
		CF Switch Se	ettings				Exterr	nal Static I	Pressure	(ESP)			
	SWx-3	SWx-2	SWx-1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
060-14				_									
	OFF	055	OFF	1 4000	1070	1000	1000	1075	1005	1050	1005	1005	1010
Clg Default:	OFF	OFF	OFF	1060	1070	1080	1080	1075	1065	1050	1035	1025	1010
CF Default:	OFF	OFF	OFF	545	530	520	525	510			See note 4		
							<u> </u>						
	OFF	OFF	ON	545	530	520	525	510			See note 4		
	OFF	ON	OFF	710	710	710	695	690			See note 4		
0 " (014/0)	OFF	ON	ON	875	880	890	895	895	890	885	880	870	855
Cooling (SW2)	ON	OFF	OFF	1060	1070	1080	1080	1075	1065	1050	1035	1025	1010
Cont Fan (SW3)	ON	OFF	ON	1235	1240	1250	1255	1255	1250	1230	1190	1155	1115
	ON	ON	OFF	1235	1240	1250	1255	1255	1250	1230	1190	1155	1115
		ON											
	ON	ON	ON	1235	1240	1250	1255	1255	1250	1230	1190	1155	1115
Clg SW2:	Max	imum Clg Air	flow ²	1425	1425	1405	1370	1335	1300	1260	1225	1190	1155
	Mavi	mum Heat Ai	irflow ³	1075	1085	1095	1095	1090	1080	1065	1050	1035	1020
Heating		nediate Heat							1000				1020
(SW1)				535	515	505	515	495			See note 4		
. ,	Mini	mum Heat Ai	rflow 3	420	410	415	400	380			See note 4		
Unit Size	Cla/	CF Switch Se	ettings				Exterr	nal Static I	Pressure	(ESP)			
	SWx-3	SWx-2	SWx-1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
060-20	5			1 5.1	J.2	0.0	U.7	0.0	0.0	U.1	0.0	1 0.0	1.0
	0==	655	055	1 ,	4===	4===	4	4===	4	400-	4	4	1
Clg Default:	OFF	OFF	OFF	1735	1735	1725	1715	1700	1685	1665	1650	1625	1605
CF Default:	OFF	OFF	OFF	545	530	520	525	510			See note 4		
	OFF	OFF	ONI	F40	FOF	505	F00	E40			Can mate 4	1	
	OFF	OFF	ON	540	525	525	520	540			See note 4		
	OFF	ON	OFF	680	725	725	720	720			See note 4		
015 (0140)	OFF	ON	ON	925	915	910	895	900	890	875	865	860	855
Cooling (SW2)	ON	OFF	OFF	1070	1075	1080	1070	1080	1075	1055	1045	1030	1020
Cont Fan (SW3)	ON	OFF	ON	1215	1245	1235	1220	1220	1210	1200	1195	1185	1175
	ON	ON	OFF			1395				1380			
			l OFF	1380	1385		1390	1395	1390		1365	1355	1340
			211					1700	1685				
	ON	ON	ON	1735	1735	1725	1715		1000	1665	1650	1625	1605
			ON	1735	1735	1725	1715		1005	1005	1650	1625	1605
Clq SW2:	ON	ON		1735	1735	1940	1925	1905	1885	1855		1745	1685
Clg SW2:	ON										1815		
Clg SW2:	ON Max	ON cimum Clg Air	flow ²	1955	1950	1940	1925	1905	1885	1855	1815	1745	1685
	ON Max Maxi	ON imum Clg Air imum Heat Ai	rflow ²	1955	1950	1940	1925	1905		1855	1815	1745	
Heating	ON Maxi Maxi	ON imum Clg Air mum Heat Air nediate Heat A	rflow ² irflow ³ Airflow ³	1955 1080 685	1950 1085 725	1940 1095 730	1925 1090 725	1905 1095 730	1885	1855	1815 1055 See note 4	1745	1685
	ON Maxi Maxi	ON imum Clg Air imum Heat Ai	rflow ² irflow ³ Airflow ³	1955	1950	1940	1925	1905	1885	1855	1815	1745	1685
Heating	ON Maxi Maxi	ON imum Clg Air mum Heat Air nediate Heat A	rflow ² irflow ³ Airflow ³	1955 1080 685	1950 1085 725	1940 1095 730	1925 1090 725	1905 1095 730	1885	1855	1815 1055 See note 4	1745	1685
Heating	ON Max Maxi Interm Mini	ON cimum Clg Air imum Heat Air nediate Heat Air mum Heat Air	rflow ² irflow ³ Airflow ³ rflow ³	1955 1080 685	1950 1085 725	1940 1095 730	1925 1090 725 550	1905 1095 730 565	1885	1855	1815 1055 See note 4	1745	1685
Heating (SW1)	Maxi Maxi Interm Mini	ON imum Clg Air mum Heat Air nediate Heat Air mum Heat Air CF Switch Se	fflow ² irflow ³ Airflow ³ rflow ³	1955 1080 685 560	1950 1085 725 555	1940 1095 730 555	1925 1090 725 550	1905 1095 730 565	1885 1085 Pressure	1855 1070 (ESP)	1815 1055 See note 4	1745	1685
Heating (SW1)	ON Max Maxi Interm Mini	ON cimum Clg Air imum Heat Air nediate Heat Air mum Heat Air	rflow ² irflow ³ Airflow ³ rflow ³	1955 1080 685	1950 1085 725	1940 1095 730	1925 1090 725 550	1905 1095 730 565	1885	1855	1815 1055 See note 4	1745	1685
Heating (SW1) Unit Size	Maxi Interm Mini Clg/ SWx-3	ON imum Clg Air imum Heat Air nediate Heat Air mum Heat Air CF Switch Se SWx-2	rflow ² irflow ³ Airflow ³ rflow ³ rflow ³ ettings SWx-1	1955 1080 685 560	1950 1085 725 555	1940 1095 730 555	1925 1090 725 550 Extern 0.4	1905 1095 730 565 nal Static I	1885 1085 Pressure 0.6	1855 1070 (ESP) 0.7	1815 1055 See note 4 See note 4	1745	1685
Heating (SW1)	Maxi Maxi Interm Mini	ON imum Clg Air mum Heat Air nediate Heat Air mum Heat Air CF Switch Se	fflow ² irflow ³ Airflow ³ rflow ³	1955 1080 685 560	1950 1085 725 555	1940 1095 730 555	1925 1090 725 550	1905 1095 730 565	1885 1085 Pressure	1855 1070 (ESP)	1815 1055 See note 4	1745	1685
Heating (SW1) Unit Size	Maxi Interm Mini Clg/ SWx-3	ON imum Clg Air imum Heat Air nediate Heat Air mum Heat Air CF Switch Se SWx-2	rflow ² irflow ³ Airflow ³ rflow ³ rflow ³ ettings SWx-1	1955 1080 685 560	1950 1085 725 555	1940 1095 730 555	1925 1090 725 550 Extern 0.4	1905 1095 730 565 nal Static I	1885 1085 Pressure 0.6	1855 1070 (ESP) 0.7	1815 1055 See note 4 See note 4	1745	1685
Heating (SW1) Unit Size	Maxi Interm Mini Clg/ SWx-3	ON imum Clg Air imum Heat Air nediate Heat Air mum Heat Air CF Switch Se SWx-2	rflow ² irflow ³ Airflow ³ rflow ³ rflow ³ ettings SWx-1	1955 1080 685 560	1950 1085 725 555	1940 1095 730 555	1925 1090 725 550 Extern 0.4	1905 1095 730 565 nal Static I	1885 1085 Pressure 0.6	1855 1070 (ESP) 0.7	1815 1055 See note 4 See note 4	1745 1045 0.9	1685
Heating (SW1) Unit Size 080-14 Clg Default:	Maxi Interm Mini Clg/ SWx-3	ON cimum Clg Air mum Heat Air nediate Heat Air mum Heat Air CF Switch Se SWx-2 OFF	rflow ² irflow ³ Airflow ³ rflow ³ rflow ³ ettings SWx-1 OFF	1955 1080 685 560 0.1	1950 1085 725 555 0.2	1940 1095 730 555 0.3	1925 1090 725 550 Extern 0.4	1905 1095 730 565 nal Static I 0.5	1885 1085 Pressure 0.6	1855 1070 (ESP) 0.7	1815 1055 See note 4 See note 4 0.8	1745 1045 0.9	1685
Heating (SW1) Unit Size 080-14 Clg Default:	Max Maxi Interm Minii Clg/ч SWx-3 OFF	ON cimum Clg Air mum Heat Air mum Heat Air mum Heat Air CF Switch Se SWx-2 OFF	rflow ² irflow ³ Airflow ³ rflow ³ settings SWx-1 OFF	1955 1080 685 560 0.1 1055	1950 1085 725 555 0.2 1065 505	1940 1095 730 555 0.3 1080	1925 1090 725 550 Extern 0.4 1075 495	1905 1095 730 565 nal Static I 0.5 1065	1885 1085 Pressure 0.6	1855 1070 (ESP) 0.7	1815 1055 See note 4 See note 4 0.8 1035 See note 4	1745	1685
Heating (SW1) Unit Size 080-14 Clg Default:	ON Max Maxi Interm Mini Clg/ SWx-3 OFF OFF	ON Imum Clg Air Imum Heat Air Imu	rflow ² irflow ³ Airflow ³ Fflow ³ Ettings SWx-1 OFF ON	1955 1080 685 560 0.1 1055 520	1950 1085 725 555 0.2 1065 505	1940 1095 730 555 0.3 1080 505	1925 1090 725 550 Extern 0.4 1075 495	1905 1095 730 565 1065 1065 490	1885 1085 Pressure 0.6	1855 1070 (ESP) 0.7	1815 1055 See note 4 See note 4 0.8 1035 See note 4	1745	1685
Heating (SW1) Unit Size 080-14 Clg Default:	ON Max Maxi Interm Minii Clg/r SWx-3 OFF OFF OFF	ON Imum Clg Air Imum Heat Air Imu	rflow ² irflow ³ Airflow ³ rflow ³ ettings SWx-1 OFF ON OFF	1955 1080 685 560 0.1 1055 520 520 665	1950 1085 725 555 0.2 1065 505 685	1940 1095 730 555 0.3 1080 505 505 680	1925 1090 725 550 Extern 0.4 1075 495 495 660	1905 1095 730 565 1065 1065 490 490 665	1885 1085 Pressure 0.6 1050	1855 1070 (ESP) 0.7	1815 1055 See note 4 See note 4 0.8 1035 See note 4 See note 4	1745	1030 1030 1.0 1005
Heating (SW1) Unit Size 080-14 Clg Default: CF Default:	ON Max Maxi Interm Mini Clg/ SWx-3 OFF OFF	ON Imum Clg Air Imum Heat Air Imu	rflow ² irflow ³ Airflow ³ Fflow ³ Ettings SWx-1 OFF ON	1955 1080 685 560 0.1 1055 520	1950 1085 725 555 0.2 1065 505	1940 1095 730 555 0.3 1080 505	1925 1090 725 550 Extern 0.4 1075 495	1905 1095 730 565 1065 1065 490	1885 1085 Pressure 0.6	1855 1070 (ESP) 0.7	1815 1055 See note 4 See note 4 0.8 1035 See note 4	1745	1685
Heating (SW1) Unit Size 080-14 Clg Default: CF Default:	ON Max Maxi Interm Minii Clg/r SWx-3 OFF OFF OFF	ON Imum Clg Air Imum Heat Air Imu	rflow ² irflow ³ Airflow ³ rflow ³ ettings SWx-1 OFF ON OFF	1955 1080 685 560 0.1 1055 520 520 665	1950 1085 725 555 0.2 1065 505 685	1940 1095 730 555 0.3 1080 505 505 680	1925 1090 725 550 Extern 0.4 1075 495 495 660	1905 1095 730 565 1065 1065 490 490 665	1885 1085 Pressure 0.6 1050	1855 1070 (ESP) 0.7	1815 1055 See note 4 See note 4 0.8 1035 See note 4 See note 4	1745	1030 1030 1.0 1005
Heating (SW1) Unit Size 080-14 Clg Default: CF Default:	ON Maxi Interm Mini Clg/ SWx-3 OFF OFF OFF OFF OFF ON	ON mum Heat Ai nediate Heat Ai mum Heat Ai CF Switch Sc SWx-2 OFF OFF ON ON OFF	offlow 2 Inflow 3 Airflow 3 Airflow 3 Pettings SWx-1 OFF ON OFF ON OFF ON OFF	1955 1080 685 560 0.1 1055 520 520 665 885 1055	1950 1085 725 555 0.2 1065 505 685 895 1065	1940 1095 730 555 0.3 1080 505 680 905 1080	1925 1090 725 550 Extern 0.4 1075 495 660 900 1075	1905 1095 730 565 1065 1065 490 490 665 900 1065	1885 1085 1085 Pressure 0.6 1050 895 1050	(ESP) 0.7 1045 885 1045	1815 1055 See note 4 See note 4 0.8 1035 See note 4 See note 4 875 1035	1745 1045 0.9 1025	1030 1030 1.0 1005
Heating (SW1) Unit Size 080-14 Clg Default: CF Default:	ON Maxi Interm Mini Clg// SWx-3 OFF OFF OFF OFF ON ON	ON mum Heat Ai nediate Heat Ai mum Heat Ai CF Switch Sc SWx-2 OFF OFF ON ON OFF OFF	rflow ² rflow ³ Airflow ³ Airflow ³ Pettings SWx-1 OFF ON OFF ON OFF ON OFF ON	1955 1080 685 560 0.1 1055 520 665 885 1055 1245	1950 1085 725 555 0.2 1065 505 685 895 1065 1245	1940 1095 730 555 0.3 1080 505 680 905 1080 1255	1925 1090 725 550 Extern 0.4 1075 495 495 660 900 1075 1255	1905 1095 730 565 1065 1065 490 665 900 1065 1260	1885 1085 1085 1085 1050 895 1050 1255	1855 1070 (ESP) 0.7 1045 885 1045 1250	1815 1055 See note 4 See note 4 0.8 1035 See note 4 See note 4 See note 4 875 1035 1235	1745 1045 0.9 1025 860 1025 1220	1.0 1.0 1.05 845 1005 1185
Heating (SW1) Unit Size 080-14 Clg Default: CF Default:	ON Maxi Interm Minii Clg/I SWx-3 OFF OFF OFF OFF ON ON ON	ON mum Heat Ai nediate Heat Ai mum Heat Ai CF Switch Sc SWx-2 OFF OFF ON ON OFF ON OFF ON	rflow 2 rflow 3 Airflow 3 Airflow 3 rflow 3 rflow 7 OFF ON OFF ON OFF ON OFF ON OFF	1955 1080 685 560 0.1 1055 520 665 885 1055 1245 1245	1950 1085 725 555 0.2 1065 505 685 895 1065 1245 1245	1940 1095 730 555 0.3 1080 505 680 905 1080 1255 1255	1925 1090 725 550 Extern 0.4 1075 495 495 660 900 1075 1255 1255	1905 1095 730 565 1065 1065 490 490 665 900 1065 1260 1260	1885 1085 1085 1085 1050 895 1050 1255 1255	1855 1070 (ESP) 0.7 1045 885 1045 1250 1250	1815 1055 See note 4 See note 4 0.8 1035 See note 4 See note 4 See note 4 875 1035 1235 1235	1745 1045 0.9 1025 860 1025 1220 1220	1.0 1.0 1.005 845 1005 1185 1185
Heating (SW1) Unit Size 080-14 Clg Default: CF Default:	ON Maxi Interm Mini Clg// SWx-3 OFF OFF OFF OFF ON ON	ON mum Heat Ai nediate Heat Ai mum Heat Ai SWx-2 OFF OFF OFF ON ON OFF OFF	rflow ² rflow ³ Airflow ³ Airflow ³ Pettings SWx-1 OFF ON OFF ON OFF ON OFF ON	1955 1080 685 560 0.1 1055 520 665 885 1055 1245	1950 1085 725 555 0.2 1065 505 685 895 1065 1245	1940 1095 730 555 0.3 1080 505 680 905 1080 1255	1925 1090 725 550 Extern 0.4 1075 495 495 660 900 1075 1255	1905 1095 730 565 1065 1065 490 665 900 1065 1260	1885 1085 1085 1085 1050 895 1050 1255	1855 1070 (ESP) 0.7 1045 885 1045 1250	1815 1055 See note 4 See note 4 0.8 1035 See note 4 See note 4 See note 4 875 1035 1235	1745 1045 0.9 1025 860 1025 1220	1.0 1.0 1.05 845 1005 1185
Heating (SW1) Unit Size 080-14 Clg Default: CF Default:	ON Maxi Interm Minii Clg/I SWx-3 OFF OFF OFF OFF ON ON ON	ON mum Heat Ai nediate Heat Ai mum Heat Ai CF Switch Sc SWx-2 OFF OFF ON ON OFF ON OFF ON	rflow 2 rflow 3 Airflow 3 Airflow 3 rflow 3 rflow 7 OFF ON OFF ON OFF ON OFF ON OFF	1955 1080 685 560 0.1 1055 520 665 885 1055 1245 1245	1950 1085 725 555 0.2 1065 505 685 895 1065 1245 1245	1940 1095 730 555 0.3 1080 505 680 905 1080 1255 1255	1925 1090 725 550 Extern 0.4 1075 495 495 660 900 1075 1255 1255	1905 1095 730 565 1065 1065 490 490 665 900 1065 1260 1260	1885 1085 1085 1085 1050 895 1050 1255 1255	1855 1070 (ESP) 0.7 1045 885 1045 1250 1250	1815 1055 See note 4 See note 4 0.8 1035 See note 4 See note 4 See note 4 875 1035 1235 1235	1745 1045 0.9 1025 860 1025 1220 1220	1.0 1.0 1.05 845 1005 1185 1185
Heating (SW1) Unit Size 080-14 Clg Default: CF Default:	ON Maxi Interm Minii Clg/(SWx-3 OFF OFF OFF OFF ON ON ON	ON mum Heat Ai nediate Heat Ai mum Heat Ai CF Switch Sc SWx-2 OFF OFF ON ON OFF ON OFF ON	offlow 2 irflow 3 Airflow 3 Airflow 3 ettings SWx-1 OFF ON	1955 1080 685 560 0.1 1055 520 665 885 1055 1245 1245	1950 1085 725 555 0.2 1065 505 685 895 1065 1245 1245	1940 1095 730 555 0.3 1080 505 680 905 1080 1255 1255	1925 1090 725 550 Extern 0.4 1075 495 495 660 900 1075 1255 1255	1905 1095 730 565 1065 1065 490 490 665 900 1065 1260 1260	1885 1085 1085 1085 1050 895 1050 1255 1255	1855 1070 (ESP) 0.7 1045 885 1045 1250 1250	1815 1055 See note 4 See note 4 0.8 1035 See note 4 See note 4 See note 4 875 1035 1235 1235	1745 1045 0.9 1025 860 1025 1220 1220	1.0 1.0 1.05 845 1005 1185 1185
Heating (SW1) Unit Size 080-14 Clg Default: CF Default: Cooling (SW2) Cont Fan (SW3)	ON Maxi Interm Minii Clg/(SWx-3 OFF OFF OFF OFF ON ON ON	ON mum Heat Ai nediate Heat Ai mum Heat Ai CF Switch Sc SWx-2 OFF OFF ON ON OFF ON ON ON	offlow 2 irflow 3 Airflow 3 Airflow 3 ettings SWx-1 OFF ON	1955 1080 685 560 0.1 1055 520 665 885 1055 1245 1245 1245	1950 1085 725 555 0.2 1065 505 685 895 1065 1245 1245	1940 1095 730 555 0.3 1080 505 505 680 905 1080 1255 1255	1925 1090 725 550 Extern 0.4 1075 495 495 660 900 1075 1255 1255 1255	1905 1095 730 565 1065 1065 490 490 665 900 1065 1260 1260	1885 1085 1085 1085 1050 895 1050 1255 1255	1855 1070 (ESP) 0.7 1045 885 1045 1250 1250 1250	1815 1055 See note 4 See note 4 0.8 1035 See note 4 See note 4 875 1035 1235 1235 1235	1745 1045 0.9 1025 860 1025 1220 1220 1220	1030 1.0 1.0 1005 845 1005 1185 1185 1185
Heating (SW1) Unit Size 080-14 Clg Default: CF Default: Cooling (SW2) Cont Fan (SW3)	ON Maxi Interm Minii Clg/t SWx-3 OFF OFF OFF OFF ON ON ON ON Max	ON mum Heat Ai nediate Heat Ai mum Heat Ai CF Switch Sc SWx-2 OFF OFF ON ON OFF ON ON ON OFF ON	rflow 2 rflow 3 Airflow 3 Airflow 3 rflow 3 rettings SWx-1 OFF ON OFF	1955 1080 685 560 0.1 1055 520 665 885 1055 1245 1245 1245	1950 1085 725 555 0.2 1065 505 685 895 1065 1245 1245 1245	1940 1095 730 555 0.3 1080 505 680 905 1080 1255 1255 1255	1925 1090 725 550 Extern 0.4 1075 495 495 660 900 1075 1255 1255 1255	1905 1095 730 565 1065 1065 490 490 665 900 1065 1260 1260 1375	1885 1085 1085 1085 0.6 1050 895 1050 1255 1255 1255	1855 1070 (ESP) 0.7 1045 885 1045 1250 1250 1250 1300	1815 1055 See note 4 See note 4 0.8 1035 See note 4 See note 4 See note 4 See note 4 1035 1235 1235 1235 1235	1745 1045 0.9 1025 1025 1220 1220 1220 1225	1030 1.0 1.0 1005 845 1005 1185 1185 1189
Heating (SW1) Unit Size 080-14 Clg Default: CF Default: Cooling (SW2) Cont Fan (SW3)	ON Maxi Maxi Interm Minii Clg/t SWx-3 OFF OFF OFF OFF ON ON ON ON Maxi Maxi	ON mum Heat Ai nediate Heat Ai mum Heat Ai CF Switch Sc SWx-2 OFF OFF ON ON OFF ON ON ON OFF ON ON ON ON ON OFF ON	rflow 2 rflow 3 Airflow 3 Airflow 3 rflow 3 rettings SWx-1 OFF ON	1955 1080 685 560 0.1 1055 520 665 885 1055 1245 1245 1245 1520	1950 1085 725 555 0.2 1065 505 685 895 1065 1245 1245 1245 1485	1940 1095 730 555 0.3 1080 505 680 905 1080 1255 1255 1450	1925 1090 725 550 Extern 0.4 1075 495 495 660 900 1075 1255 1255 1255 1415	1905 1095 730 565 1065 1065 490 490 665 900 1065 1260 1260 1260 1375	1885 1085 1085 1085 1050 895 1050 1255 1255	1855 1070 (ESP) 0.7 1045 885 1045 1250 1250 1250 1300	1815 1055 See note 4 See note 4 0.8 1035 See note 4 See note 4 See note 4 875 1035 1235 1235 1235 1235	1745 1045 1025 1025 1025 1220 1220 1220 1225	1030 1.0 1.0 1005 845 1005 1185 1185 1185
Heating (SW1) Unit Size 080-14 Clg Default: CF Default: Cooling (SW2) Cont Fan (SW3) Clg SW2:	ON Maxi Maxi Interm Minii Clg/i SWx-3 OFF OFF OFF OFF ON ON ON ON Maxi Interm	ON mum Heat Ai mediate Heat Ai mum Heat Ai CF Switch Se SWx-2 OFF OFF ON ON OFF ON ON OFF ON ON	rflow 2 rflow 3 Airflow 3 Airflow 3 rflow 3 rflow 3 ettings SWx-1 OFF ON ON	1955 1080 685 560 0.1 1055 520 520 665 885 1055 1245 1245 1245 1520 755	1950 1085 725 555 0.2 1065 505 685 895 1065 1245 1245 1245 1485 745	1940 1095 730 555 0.3 1080 505 680 905 1080 1255 1255 1255 1450 1450 755	1925 1090 725 550 Extern 0.4 1075 495 495 660 900 1075 1255 1255 1255 1415 1415 755	1905 1095 730 565 1065 1065 490 490 665 900 1065 1260 1260 1260 1375 1375 765	1885 1085 1085 1085 0.6 1050 895 1050 1255 1255 1255	1855 1070 (ESP) 0.7 1045 885 1045 1250 1250 1250 1300	1815 1055 See note 4 0.8 1035 See note 4 875 1035 1235 1235 1235 1265 1265 See note 4	1745 1045 0.9 1025 1025 1220 1220 1225	1030 1.0 1.0 1005 845 1005 1185 1185 1189
Heating (SW1) Unit Size 080-14 Clg Default: CF Default: Cooling (SW2) Cont Fan (SW3)	ON Maxi Maxi Interm Minii Clg/i SWx-3 OFF OFF OFF OFF ON ON ON ON Maxi Interm	ON mum Heat Ai nediate Heat Ai mum Heat Ai CF Switch Sc SWx-2 OFF OFF ON ON OFF ON ON ON OFF ON ON ON ON ON OFF ON	rflow 2 rflow 3 Airflow 3 Airflow 3 rflow 3 rflow 3 ettings SWx-1 OFF ON ON	1955 1080 685 560 0.1 1055 520 665 885 1055 1245 1245 1245 1520	1950 1085 725 555 0.2 1065 505 685 895 1065 1245 1245 1245 1485	1940 1095 730 555 0.3 1080 505 680 905 1080 1255 1255 1450	1925 1090 725 550 Extern 0.4 1075 495 495 660 900 1075 1255 1255 1255 1415	1905 1095 730 565 1065 1065 490 490 665 900 1065 1260 1260 1260 1375	1885 1085 1085 1085 0.6 1050 895 1050 1255 1255 1255	1855 1070 (ESP) 0.7 1045 885 1045 1250 1250 1250 1300	1815 1055 See note 4 See note 4 0.8 1035 See note 4 See note 4 See note 4 875 1035 1235 1235 1235 1235	1745 1045 0.9 1025 1025 1220 1220 1225	1030 1.0 1.0 1005 845 1005 1185 1185 1189

AIR DELIVERY - CFM (CONTINUED)

Cooling⁴ and Heating Air Delivery - CFM (Bottom Return⁵ With Filter) (SW1-5 and SW4-3 set to OFF, except as indicated. See notes 1 and 2)

		•	1-5 and 511-		O, OXO	opt do iii				-			
Unit Size	Clg/	CF Switch So	ettings				Exter	nal Static I	Pressure	(ESP)			
	SWx-3	SWx-2	SWx-1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
080-20			<u> </u>	•				_				•	
Clg Default:	OFF	OFF	OFF	1745	1755	1755	1760	1755	1750	1745	1725	1705	1685
				<u> </u>					<u> </u>				
CF Default:	OFF	OFF	OFF	700	710	750	725	750			See note 4	!	
0. Doi.u.i.	<u> </u>	<u> </u>	U	1	7.0			1 .00					
	OFF	OFF	ON	700	710	750	725	750	1		See note 4	1	
								1					
	OFF	ON	OFF	830	860	870	890	960			See note 4		
Cooling (SW2)	OFF	ON	ON	1045	1045	1060	1070	1070	1070	1095	1090	1080	1070
Cont Fan (SW3)	ON	OFF	OFF	1215	1220	1245	1240	1235	1235	1225	1220	1235	1235
contrain (crro)	ON	OFF	ON	1370	1370	1390	1390	1400	1395	1400	1390	1390	1385
	ON	ON	OFF	1745	1755	1755	1760	1755	1750	1745	1725	1705	1685
	ON	ON	ON	1745	1755	1755	1760	1755	1750	1745	1725	1705	1685
				1	1	1	1				1==		1
Clg SW2:	May	imum Clg Air	flow 2	1920	1920	1945	1945	1945	1960	1950	1940	1915	1900
Oly SVV2.	IVIAX	illiulli Cig Ali	IIOW	1920	1920	1943	1945	1945	1900	1930	1940	1915	1900
	Mari	I I 4 A	3	1040	1055	1070	1005	1000	1005	1400	1400	1005	1000
Heating		mum Heat A		1340	1355	1370	1385	1380	1385	1400	1400	1385	1380
(SW1)		ediate Heat		780	810	835	840	845			See note 4		
. ,	Mini	mum Heat Ai	rflow ³	595	595	600	595	605			See note 4	<u> </u>	
Unit Size	Clg/	CF Switch So	ettings				Exter	nal Static	Pressure	(ESP)			
	SWx-3	SWx-2	SWx-1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
100-22								•				•	
Clg Default:	OFF	OFF	OFF	1820	1825	1840	1845	1840	1835	1825	1805	1780	1770
-												_	
CF Default:	OFF	OFF	OFF	750	740	745	730	715			See note 4	1	
	OFF	OFF	ON	750	740	745	730	715			See note 4	<u> </u>	
	OFF	ON	OFF	900	900	915	910	905			See note 4		
	OFF	ON	ON			1095	1095	1090	1085	1095		1065	1070
Cooling (SW2)				1070	1075						1080		
Cont Fan (SW3)	ON	OFF	OFF	1280	1285	1305	1305	1310	1305	1295	1300	1290	1285
, ,	ON	OFF	ON	1440	1445	1465	1465	1470	1485	1480	1485	1475	1460
	ON	ON	OFF	1820	1825	1840	1845	1840	1835	1825	1805	1780	1770
	ON	ON	ON	2135	2140	2140	2135	2140	2130	2115	2100	2070	2015
Clg SW2:	Max	imum Clg Air	flow ²	2160	2165	2175	2170	2160	2150	2135	2120	2065	2020
	Maxi	mum Heat A	irflow ³	1570	1575	1595	1595	1600	1605	1600	1600	1590	1575
Heating	Interm	ediate Heat	Airflow ³	950	955	965	975	970	See r	note 4			
(SW1)		mum Heat Ai		755	745	750	735	720		note 4	+	 	
	1411111	nam Heat Al		, 55	7-10	, 50	, 55	120	3661	1010 4		L	
Unit Size	Cla/	CF Switch Se	ottinge	1			Evtor	nal Static	Droceuro	(EQD)			
Ollit Olze	SWx-3	SWx-2	SWx-1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
120-22 ⁶	3444-3	3444-5	3447-1	U.1	0.2	0.0	0.4	0.0	L 0.0	0.7	0.0		1.0
	OFF	OFF	055	1050	1055	1000	1055	1050	1000	1005	1775	1750	1700
Clg Default:	OFF	OFF	OFF	1850	1855	1860	1855	1850	1830	1805	1775	1750	1730
05.0 ("	OFF	OFF		1 000	00-	1 0/-	000	00-					
CF Default:	OFF	OFF	OFF	930	925	915	900	885			See note 4	•	
	OFF	OFF	ON	765	745	740	705	680			See note 4		
	OFF	ON	OFF	930	925	915	900	885			See note 4	1	
Cooling (SW2)	OFF	ON	ON	1095	1100	1110	1105	1085			See note 4	1	
3 ()	ON	OFF	OFF	1265	1255	1265	1280	1275	1285	1270	1260	1250	1230
Cont Fan (SW3)	ON	OFF	ON	1465	1455	1470	1465	1465	1470	1455	1450	1435	1415
, ,	ON	ON	OFF	1850	1855	1860	1855	1850	1830	1805	1775	1750	1730
	ON	ON											
	UN	UN	ON	2200	2200	2200	2190	2185	2170	2145	2085	1990	1890
01 611/2			n 2	1 0000	0000	0000	04.55	0400	0.4==	04:-	0000	1655	1000
Clg SW2:	Max	imum Clg Air	flow ²	2200	2200	2200	2190	2185	2170	2145	2085	1990	1890
Heating		mum Heat A		1815	1820	1825	1820	1815	1795	1775	1745	1720	1700
(SW1)	Interm	ediate Heat	Airflow ³	1095	1100	1110	1105	1085			See note 4		
1. Nominal 350 (CFM/ton co	oling airfloy	v is delivered	with SW	1-5 and 9	3W/4-3 sp	t to OFF	•	•				

^{1.} Nominal 350 CFM/ton cooling airflow is delivered with SW1-5 and SW4-3 set to OFF.

Set both SW1-5 and SW4-3 to ON for nominal 370 CFM/ton (+7% airflow).

The above adjustments in airflow are subject to motor horsepower range/capacity.

- 2. Maximum cooling airflow is achieved when switches SW2-1, SW2-2, SW2-3 and SW1-5 are set to ON, and SW4-3 is set to OFF.
- 3. All heating CFM's are when low/medium heat rise adjustment switch (SW1-3) and comfort/efficiency adjustment switch (SW1-4) are both set to OFF.
- 4. Ductwork must be sized for high-heating CFM within the operational range of ESP. Operation within the blank areas of the chart is not recommended because high-heat operation will be above 1.0 ESP.
- 5. All airflows on 21" casing size furnaces are 5% less on side return only installations.
- 6. Side returns for 24.5" casing sizes require two sides, or side and bottom, to allow sufficient airflow at the return of the furnace.

Set SW1-5 to ON for nominal 400 CFM/ton (+15% airflow).

Set SW4-3 to ON for nominal 325 CFM/ton (-7% airflow).

MAXIMUM ALLOWABLE EXPOSED VENT LENGTHS INSULATION TABLE

Table 1 - Maximum Allowable Exposed Vent Length in Unconditioned Space

	Unit Size	Uni	nsula	ted		00* B n. Insul		1/2-iı	n. Insul	ation	-		Unins	ulated				BTUH sulation		1/2	?-in. In	sulatio	on
	Pipe Dia. in.	1 ½	2	2 ½	1 ½	2	2 ½	1 ½	2	2 ½		1 1/2	2	2 ½	3	1 1/2	2	2 ½	3	1 ½	2	2 ½	3
Winter	20	20	20	20	20	50	45	20	60	50		20	30	30	25	20	75	65	60	20	85	75	65
Design	0	10	5	5	20	25	20	20	30	25		15	15	10	10	20	40	30	25	20	45	40	30
Temp	-20	5			20	15	10	20	20	15		10	5			20	25	20	15	20	30	25	20
°F	-40				15	10	5	15	15	10		5				20	15	15	10	20	20	15	10

	Unit Size								00 BTUH							
			L	Ininsulated	t			3/8-i	n. Insulati	on			1/2-	in. Insulat	ion	
	Pipe Dia. in.	1 ½	2	2 ½	3	4	1 ½	2	2 ½	3	4	1 ½	2	2 ½	3	4
Vinter	20	15	40	40	35	30	15	50	90	75	65	15	50	70	70	70
esign)	0	15	20	15	10	5	15	50	45	35	30	15	50	50	40	35
Гетр	-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						100,0	000 BTUH					
			Uninsu	lated			3/8-in. In:	sulation			1/2-in. In	sulation	
	Pipe Dia.	2	2 ½	3	4	2	2 ½	3	4	2	2 ½	3	4
	in.	00	5 0	40	25	00	00	05	00	00	00	405	
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
∘⊏	40	15	10	5			0.5	30	20	20		35	25
Temp °F	-20 -40	15 10	10 5	5		20 20	35 25	30 20	20 10	20 20	45 30		35 25

	Unit Size	Un	insulat	ed		,000 B1 n. Insula		1/2-i	n. Insula	ation		ninsula	ted		0,000 B n. Insula		1/2-iı	n. Insula	ation
	Pipe Dia. in.	2 ½	3	4	2 ½	3	4	2 ½	3	4	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	5	55	50	5	65	105	5	65	125
Design	0	10	20	15	10	55	45	10	65	50	5	25	15	5	65	50	5	65	60
Temp	-20	10	10		10	35	25	10	45	30	5	10	5	5	45	30	5	50	40
°F	-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 (Metric)

	Unit Size				40,0	000* B1	ГИН				Ĭ				 -	60,000	BTÚH					
		Uni	nsula	ted	3/8-ii	n. Insula	ation	1/2-iı	n. Insul	ation		Unins	ulated		3/8	3-in. In	sulatio	on	1/2	2-in. In	sulatio	on
	Pipe Dia. mm	38	51	64	38	51	64	38	51	64	38	51	64	76	38	51	64	76	38	51	64	76
Winter	-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
Design	-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
Temp	-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
°C	-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

	Unit Size							80,0	00 BTUH							
			L	Ininsulate	d			3/8-i	n. Insulati	ion			1/2-	in. Insula	tion	
	Pipe Dia. mm	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									
			Uninsu	lated			3/8-in. In	sulation		1/2-in. Insulation						
	Pipe Dia. mm	51	64	76	102	51	64	76	102	51	64	76	102			
Vinter	-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					,000 BT					140,000 BTUH								
		Un	insulat	ed	3/8-i	n. Insula	ition	1/2-i	1/2-in. Insulation			Uninsulated 3/8-in. Insula				ation	ion 1/2-in. Insulation		
	Pipe Dia.	64	76	102	64	76	102	64	76	102	64	76	102	64	76	102	64	76	102
	mm																		
Winter	-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
Design	-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
Temp	-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
°C	-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

^{*} Pipe length (ft) specified for maximum pipe lengths located in unconditioned spaces. Pipes located in unconditioned space cannot exceed total allowable pipe length calculated from Table 2.

 $[\]dagger$ Insulation thickness based on R value of 3.5 per in.

MAXIMUM EQUIVALENT VENT LENGTH

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

Use Table 3 - Deductions from Maximum Equivalent Vent Length to determine allowable vent length for each application.

Table 2 – MAXIMUM EQUIVALENT VENT LENGTH

	Unit Size 60,000				80,000						100,000				120,000		
	Pipe Dia. (in)	1 ½	2	2 1/2	3	1 1/2	2	2 ½	3	4	2	2 1/2	3	4	2 1/2	3	4
	0-2000	40	100	175	200	25	95	130	175	200	35	80	175	200	10	75	185
	2001-3000	35	95	165	185	20		125	165	185		75	165	185	10	70	175
	3001-4000	30	90	155	175	20	65	115	155	175	30	73	155	175	5	65	165
(feet)	4001-4500		85	150	170		00	110	150	165	30	70	133	170			160
	4501-5000		80	130	165]		110	145	160		65	150	165		60	100
l b	5001-6000	25	75	140	155	15	55	100	135	150	25	03	140	155			155
Altitude	6001-7000		70	130	145	1	50	90	125	140		60	135	145	N/A	50	140
1	7001-8000		65	120	135]	30	90	120	125	20	55	125	135		45	130
	8001-9000	20	60	115	125	10	45	80	110	115		50	115	125		40	120
	9001-10000	20	55	105	115	1 '0	40	75	100	105	15	45	100	115		30	115

							ı	Metric									
	Unit Size		60,	000		80,000						100	,000			120,000	
	Pipe Dia. (mm)	38	51	64	76	38	51	64	76	102	51	64	76	102	64	76	10
	0-610	12	31	54	61	8	30	40	54	61	11	25	54	61	3	23	57
	611-914	11	29	51	57	- 6		38	51	57		23	51	57		21	54
S .	915-1219	9	27	48	54	1 0	20	36	48	53	9	23	48	54	1.5	20	51
(meter	1220-1370		26		52		20	34	46	51]	22	40	52			50
E	1371-1524		24	46	51	ĺ		34	45	50		21	46	51		19	30
용	1525-1829	7.5	22		47	4.5	17	31	42	46	8	21	43	48	-		48
Altitu	1830-2134		22	42	44	1	15	27	39	42		19	41	45	N/A	16	43
₹	2135-2438	1	20	37	42	1	15	21	36	39	7	18	38	42		14	40
	2439-2743	6	19	35	38	3	14	26	34	36		15	36	39	-	13	38
	2744-3048	1 0	17	33	36	1 3	13	24	31	33	4.5	14	34	36		12	35

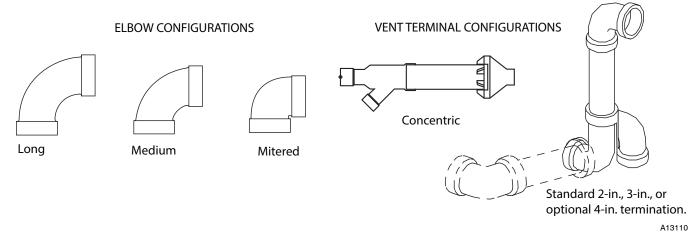


Table 3 - Deductions from Maximum Equivalent Vent Length - Ft. (M)

				1						
Pipe Diameter (in):	1-	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	(0.8)	2.5	(8.0)	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	١	NA .	0	(0.0)	١	IA	0	(0.0)	١	IA
Standard Vent Termination	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)

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 3.

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 2.

Example 1

A direct-vent 60,000 Btuh furnace installed at 2100 ft. (640 M). Venting system includes, **FOR EACH PIPE**, 100 feet (30 M) of vent pipe, 95 feet (28 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-in. (50 mm ND) PVC/ABS DWV vent piping?

Measure the required linear length of air inlet and ve longest of the two here:		100 ft	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)	9 ft.	From Table 3			
Add equiv length of (2) 45° long-radius elbows (use the highest number of elbows for either the vent or inlet pipe)	3 ft.	From Table 3			
Add equiv length of vent termination				0 ft.	From Table 3
Add correction for flexible vent pipe, if any				O ft.	From Vent Manufacturer's instructions; zero for PVC/ABS DWV
Total Equivalent Vent Length (TEVL)				112 ft.	Add all of the above lines
Maximum Equivalent Vent Length (MEVL)		127 ft.	For 2" pipe from Table 2		
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. (640 M) Venting system includes, **FOR EACH PIPE**, 100 feet (30 M) of vent pipe, 95 feet (28 M) of combustion air inlet pipe, (3) 90° long radius elbows, and a polypropylene concentric vent kit. Also includes 20 feet (6 M) of flexible polypropylene vent pipe, included within the 100 feet (30 M) of vent pipe.

Assume that one meter of flexible 60 mm or 80 mm polypropylene pipe equals 1.8 meters of PVC/ABS pipe. VERIFY FROM VENT MANUFACTURER'S INSTRUCTIONS.

Can this application use 60 mm (O.D.) polypropylene vent piping? If not what size piping can be used?

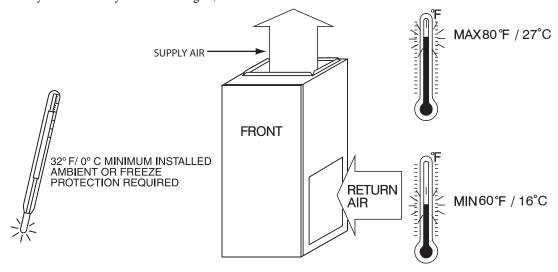
Measure the required linear length of air inlet and ve longest of the two here:		100 ft	Use length of the longer of the vent or air inlet piping system			
Add equiv length of (3) 90° long-radius elbows (use the highest number of elbows for either the vent or inlet pipe)	3	х	3 ft	=	9 ft.	From Vent Manufacturer's instructions
Add equiv length of (2) 45° long-radius elbows (use the highest number of elbows for either the vent or inlet pipe)	0	х		=	O ft.	From Vent Manufacturer's instructions
Add equiv length of of vent termination	9 M	х	3 ft/M	=	18 ft.	From Vent Manufacturer's instructions
Add correction for flexible vent pipe, if any	1.8	х	20 ft	=	36 ft.	From Vent Manufacturer's instructions
Total Equivalent Vent Length (TEVL)	•	•	•		163 ft.	Add all of the above lines
Maximum Equivalent Vent Length (MEVL)					127 ft.	For 2" pipe from Table 2
Is TEVL less than MEVL?					NO	Therefore, 60mm pipe may NOT be used; try 80 mm
Maximum Equivalent Vent Length (MEVL)					250 ft.	For 3" pipe from Table 2
Is TEVL less than MEVL?					YES	Therefore, 80 mm pipe may be used

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.

RETURN AIR TEMPERATURE

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



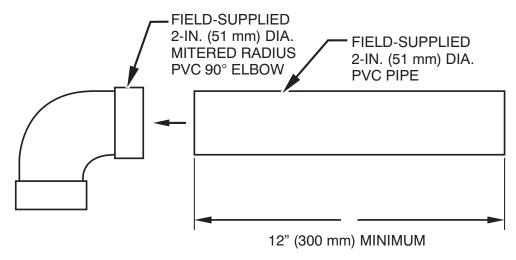
A10490

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)

^{*} Recommended

VENTILATED COMBUSTION-AIR PIPE FOR ATTIC/CRAWLSPACE APPLICATIONS

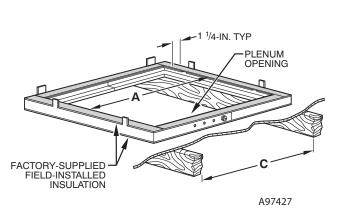


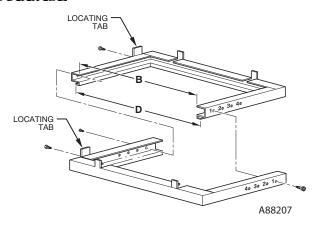
A12376

NOTE: See Installation Instructions for specific venting configurations.

^{**}Consult your local building codes

DOWNFLOW SUBBASE



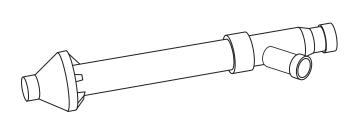


Assembled

Disassembled

	DIMENSIONS (IN. / MM)							
FURNACE	FURNACE IN DOWNFLOW	PLENUM	OPENING*	FLOOR C	PENING	HOLE NO. FOR		
CASING WIDTH	CASING WIDTH APPLICATION		В	С	D	- WIDTH ADJUSTMENT		
17-1/2 (444.5)	Furnace with or without Cased Coil Assembly or Coil Box	15 – 1/8 (384.2)	19 (482.6)	16-3/4 (425.5)	20-3/8 (517.5)	3		
21 (533.4)	Furnace with or without Cased Coil Assembly or Coil Box	18-5/8 (396.4)	19 (482.6)	20-1/4 (514.4)	20-3/8 (517.5)	2		
24-1/2 (622.3)	Furnace with or without Cased Coil Assembly or Coil Box	22-1/8 (562.0)	19 (482.6)	23-3/4 (603.3)	20-3/8 (517.5)	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.

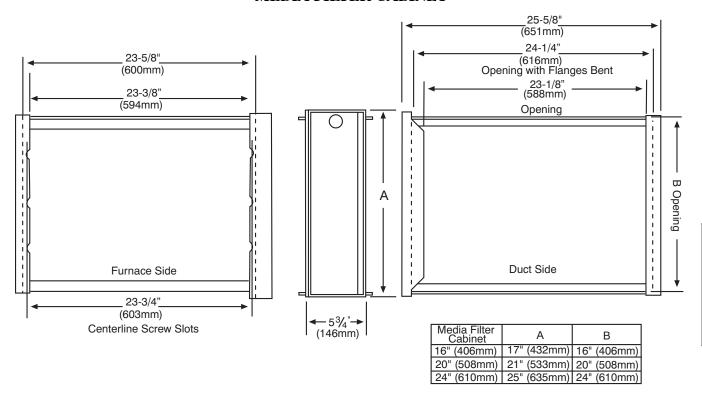


Downflow Subbase

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

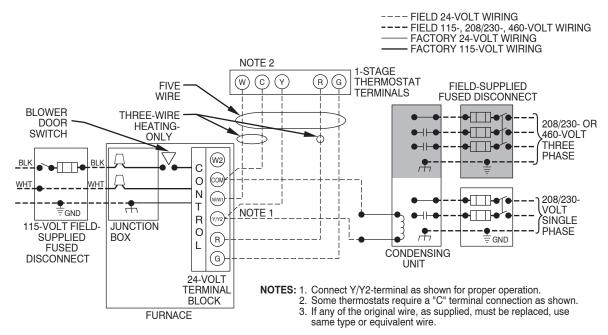
MEDIA FILTER CABINET



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

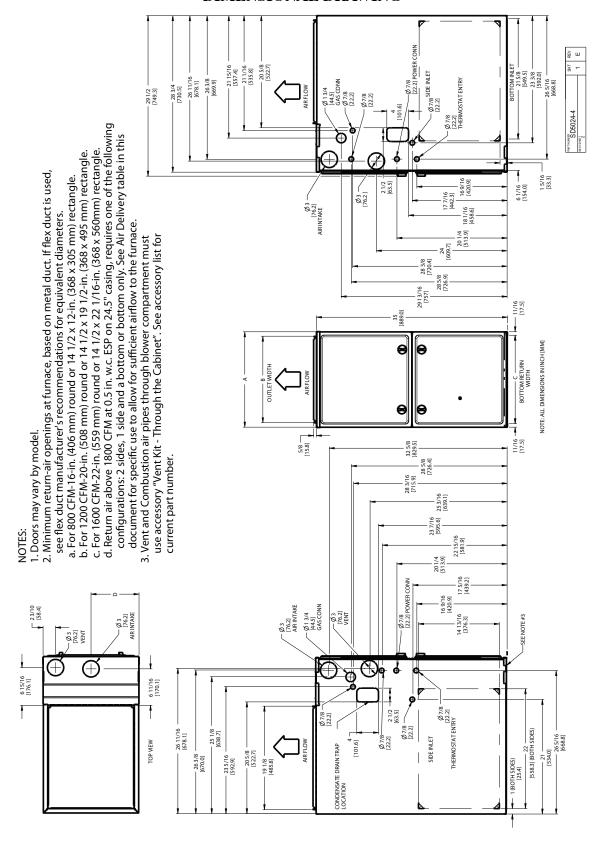
A12428

TYPICAL WIRING SCHEMATIC



A11401

DIMENSIONAL DRAWING



A12267

59MN7	Α	В	С	D	SHIP WT LB (KG)
FURNACE SIZE	CABINET WIDTH	OUTLET WIDTH	BOTTOM INLET WIDTH	AIR INTAKE	SHIP WI. – LB (KG)
060 – 14	17-1/2 (445)	15-7/8 (403)	16 (406)	8-3/4 (222)	154.0 (69.3)
080 – 14	17 = 1/2 (445)	13=7/8 (403)	10 (400)	0-3/4 (222)	164.0 (73.8)
060-20					158.5 (72.0)
080-20	21 (533)	19-3/8 (492)	19-1/2 (495)	10-1/2 (267)	168.5 (76.6)
100-22					178.5 (80.3)
120-22	24-1/2 (622)	22-7/8 (581)	23 (584)	12-1/4 (311)	202.5 (91.1)

25 MN7

GUIDE SPECIFICATIONS

General

System Description

Furnish a 4-way multipoise modulating gas-fired condensing furnace for use with natural gas or propane (factory- authorized conversion kit required for propane); furnish external media cabinet for use with accessory media filter or standard filter.

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 infinitely variable speed from 300-1300 RPM operating only when 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-t	ype	filters.	Filt	er shall	l be	in
(mm) X	in. (mm).	An	access	ory	highly	efficient	Media
Filter is available as	an option.				Med	dia Filter.	

Casing

Casing shall be of .030 in. thickness minimum, pre-painted steel.

Draft Inducer Motor

Draft inducer motor shall be variable-speed 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 separate blower speeds for all modulating heating capacities, low cooling, high cooling and continuous fan. Continuous fan speed may be adjusted from the thermostat. Cooling airflow will be selectable between 325 to 400 CFM per ton of air conditioning. Features will also include temporary reduced airflow in the cooling mode for improved dehumidification when an Infinity Control or TP-PRH edge® is selected as the thermostat.

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 bein. (mn	n) with A/C coil and
in. (mm) overall wi	ith 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 identifying accessories and descriptions for specific features and available enhancements.

Replaces: 59MN7A-05PD