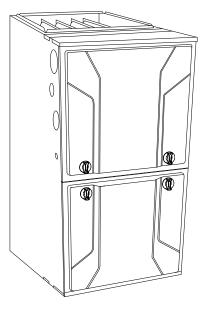
986TB EVOLUTION® TWO-STAGE, VARIABLE SPEED 4-WAY MULTIPOISE CONDENSING GAS FURNACE SERIES A

bryant



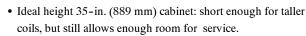
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Product Data

The 986TB Multipoise Variable-Speed Condensing Gas Furnace features the two-stage Evolution[®] System. The Perfect Heat Technology[®] two-stage gas system is at the heart of the comfort provided by this furnace, along with the Evolution variable-speed ECM blower motor, and two-speed inducer motor. With an Annual Fuel Utilization Efficiency (AFUE) of up to 96.7%, the Evolution two-stage gas furnace provides exceptional savings when compared to a standard furnace. This Evolution Gas Furnace also features 4-way multipoise installation flexibility, and is available in five model sizes. The 986TB can be vented for direct vent/two-pipe, ventilated combustion air, or single-pipe applications. A Bryant Connex[™] and Evolution Air Conditioner or Heat Pump can be used to form a complete Evolution System. All units meet California Air Quality Management District emission requirements. All sizes are design certified in Canada.

STANDARD FEATURES

- Evolution® System; compatible with single- and multiple-zone Evolution systems.
- All sizes meet ENERGY STAR® Version 4.0 criteria for gas furnaces: 95+ AFUE; AMACF electrical rating; 2% or less cabinet airflow leakage.
- Quiet operation. Compare for yourself at HVACpartners.com.



- Full Evolution Features—match with the Evolution Bryant Connex[™] for Evolution System benefits including by-pass less zoning and TrueSense dirty filter detection.
- Integral part of the Perfect Humidity System® Technology.
- Perfect Light[™] Silicon Nitride Hot Surface Igniter.
- SmartEvap[™] technology helps control humidity levels in the home when used with a compatible humidity control system.
- Fan On Plus[™] 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 installation, with unique vent elbow and optional through-the-cabinet downflow venting capability.
- Variable-Speed blower motor, two-speed inducer motor, and two-stage gas valve.
- Self-diagnostics and extended diagnostic data through the Advanced Product Monitor (APM) accessory or Evolution Connex[™] Interface.
- 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, single-pipe venting or ventilated combustion air.
- 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.



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



SAP ORDERING NO.		ASIN ENSI (IN.)			D HEATI PUT† (BT		н	EATING AII	RFLOW	COOLING CFM @ 0.5	MOTOR HP (VARIABLE	MEDIA CABINET	APPROX. SHIP WT.
SAF ONDERING NO.	н	D	w	High	Low	AFUE	CFM‡ (Low Heating)	(Low (High High leating) Heating) E		ESP	SPEED)	SUPPLIED (IN.)	(LB)
986TB42060V17A-A	35	30	17.5	58,000	38,000	96.3%	855	1075	0.12	510 - 1335	1/2	16	140
986TB42080V17A-A	35	30	17.5	78,000	50,000	96.2%	1060	1500	0.15	490 - 1375	1/2	16	150
986TB60080V21A-A	35	30	21.0	78,000	51,000	96.7%	1095	1345	0.15	750 - 1945	1	20	155
986TB66100V21A-A	35	30	21.0	98,000	63,000	96.1%	1385	1575	0.20	715 - 2160	1	20	165
986TB66120V24A-A	35	30	24.5	117,000	76,000	96.7%	1640	1820	0.20	885 - 2185	1	24	189

† Capacity in accordance with DOE test procedures. Ratings are position dependent. See rating plate.
 # Heating CFM at factory default blower motor heating settings.

ESP – External Static Pressure

ESP – External Static Pressure

FEATURES AND BENEFITS

Perfect Heat Technology® feature — This feature with Adaptive Control is a proprietary function that promotes homeowner comfort through two stages of heating. This Bryant furnace offers a patented algorithm that continually monitors and adjusts furnace operation by looking at both current and past conditions to determine the most effective stage of heating and the amount of time to run each stage, every cycle.

Perfect Humidity System® Technology — The Perfect 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, Perfect Humidity gives the homeowner the right amount of humidity day and night, even in mild weather. No other manufacturer can do this! Perfect Humidity saves energy, too. By keeping humidity under control, the homeowner can set their thermostat lower to stay comfortable and save energy.

SmartEvap^m **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 blower off-delay when humidity control is needed. Once humidity is back in control, SmartEvap re-enables the energy-saving cooling blower off-delay.

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

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

Perfect Light[™] Igniter — Bryant'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 Bryant'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 Bryant 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 Bryant 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 or Single-pipe Venting, or Optional Ventilated Combustion Air — This furnace can be installed as a 2-pipe (Direct Vent) furnace, in an optional ventilated combustion air application, or in single-pipe, non-direct vent applications. 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.

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

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

		SPEC	IFICALIC	ND CIND					
Heating Capacity and Efficient			42060	42080	60080	66100	66120		
Input	High Heat	(BTUH)	60,000	80,000	80,000	100,000	120,000		
Input	Low Heat	(BTUH)	39,000	52,000	52,000	65,000	78,000		
	High Heat	(BTUH)	58,000	78,000	78,000	98,000	117,000		
	Low Heat	(BTUH)	38,000	50,000	51,000	63,000	76,000		
Efficiency		AFUE % (ICS)	96.3	96.2	96.7	96.1	96.7		
		. , ,	35 - 65	40 - 70	40 - 70	45 - 75	45 - 75		
Certified Temperature		High Heat	(19 - 36)	(22 - 39)	(22 - 39)	(25 - 42)	(25 - 42		
Rise Range °F (°C)			30 - 60	30 - 60	30 - 60	30 - 60	30 - 60		
ruse runge r (0)		Low Heat	(17 - 33)	(17 - 33)	(17 - 33)	(17 - 33)	(17 - 33		
			(17 00)	(17 00)	(17 00)	(17 00)	(17 00)		
Airflow Capacity and Blow	er Data		42060	42080	60080	66100	66120		
Rated External Static		Heating	0.12	0.15	0.15	0.20	0.20		
Pressure (in. w.c.)		Cooling	0.5	0.5	0.5	0.5	0.5		
		High Heat	1075	1500	1345	1575	1820		
Airflow Delivery		Low Heat	855	1060	1095	1385	1640		
@ Rated ESP (CFM)			1335	1375	1945	2160	2185		
		Cooling							
Cooling Capacity (tons)		400 CFM/ton	3	3.5	4.5	5	5.5		
3 1 3 (7		350 CFM/ton	3.5	4	5.5	6	6		
Direct-Drive Motor Type					ly Commutated N	Notor (ECM)			
Direct-Drive Motor HP			1/2	1/2	1	1	1		
Motor Full Load Amps			7.7	7.7	12.8	12.8	12.8		
RPM Range					300 - 1300				
Speed Selections				Varia	able (Communica	ating)			
Blower Wheel Dia x Width		in.	11 x 8	11 x 8	11x10	11 x 10	11 x 11		
Air Filtration System					plied External M ield Supplied Filt				
Filter Used for Certified Watt	Data*				KGAWF**06UFF				
	Dula					`			
Electrical Data			42060	42080	60080	66100	66120		
Input Voltage		Volts-Hertz-Phase			115-60-1				
Operating Voltage Range		Min-Max		- i	104-127				
Maximum Input Amps		Amps	8.5	8.5	13.6	13.7	13.7		
Unit Ampacity		Amps	11.5	11.5	17.9	18.0	18.0		
Minimum Wire Size		AWG	14	14	12	12	12		
Maximum Wire Length		Feet	32	32	32	31	31		
@ Minimum Wire Size		(M)	(9.8)	(9.8)	(9.8)	(9.4)	(9.4)		
Maximum Fuse/Ckt Bkr		A	4 5	45					
(Time-Delay Type Recomme	nded)	Amps	15	15	20	20	20		
Transformer Capacity (24vac	c output)			-1	40 VA	1	1		
	• •	Heating			24.3 VA				
External Control Power Avail	able	Cooling			34.6 VA				
		3							
Controls			42060	42080	60080	66100	66120		
Gas Connection Size					1/2" - NPT				
Burners (Monoport)			3	4	4	5	6		
Gas Valve (Redundant)				1		1	-		
· · · · · · · · · · · · · · · · · · ·		Manufacturer			White Rogers				
		Gas pressure (in. wc)			4.5				
Ma	aximum Inlet	Gas pressure (in. wc)			13.6				
Manufactured (Mobile) Home		,		not	approved for MH	use			
Ignition Device					Silicon Nitride				
Limit Control			180	170	200	180	160		
Heating Blower Control (Hea	ting Off-Dela	v)			: 90, 120, 150, 18				
Cooling Blower Control (Time	Delay Relay	()		, ajuotable					
Communication System		1)	90 seconds Evolution; Evolution Zoning						
Thormootot Connections					\sqrt{N}	m 2417 D H H M			
Thermostat Connections Accessory Connections				R, W/W1, W2 EAC (115vac); H	Y/Y2, Y1, G, Co		、		

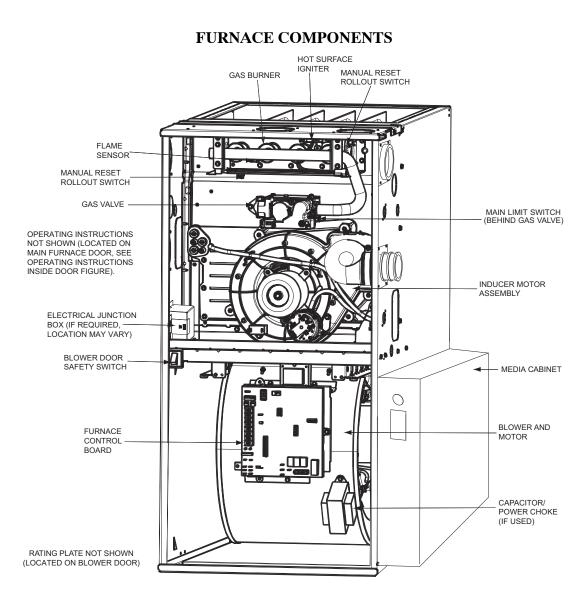
* See Accessory List for part numbers available.

MODEL NUMBER NOMENCLATURE Example of a Model Number

3 Base Eff. 1 - 2 Family/Tier 5 Major Series 6 - 7 8 - 10 Htg. Cap. 4 12 - 13 Width 15 14 Voltage 16 11 Htg. Stages Clg. Cap. Motor Minor Series Features 6 А А 30 040 V 14 98 0 - +90 AFUE 2 - +92 AFUE 3 - +93 AFUE 5 - +95 AFUE 6 - +96 AFUE 7 - +97 AFUE 91 - Legacy 92 - Preferred 98 - Evolution S - Single Stage T - Two Stage 24 - 800 CFM 30 - 1000 CFM 36 - 1200 CFM 42 - 1400 CFM 48 - 1600 CFM M - Modulating 14 - 14.2" 17 - 17.5" 21 - 21.0" L - Low NOx Voltage 24 - 24.5" 040= 40,000 BTU 060= 60,000 BTU 080= 80,000 BTU 100=100,000 BTU V - Variable Speed 54 1800 CFM Major Series 60 - 2000 CFM 66 - 2200 CFM (@ 0.5" ESP) 120=120 000 BTU 40=140,000 BTU

Not all familes have these models.

A12374



REPRESENTATIVE DRAWING ONLY, SOME MODELS MAY VARY IN APPEARANCE.

4

ACCESSORIES

ACCI	ESSORIES						
DESCRIPTION	PART NUMBER	42060	42080	60080	66100	66120	
Venting Accessories							
Vent Kit - Through the Cabinet	KGADC0101BVC • • • KGAVT0701CVT KGAVT0801CVT KGAVT0101BRA See Venting Tables						
Vent Terminal - Concentric - 2" (51 mm)							
Vent Terminal - Concentric - 3" (76 mm)	KGAVT0801CVT		Soo	Vonting T	ables		
Vent Terminal Bracket - 2" (51 mm)	KGAVT0101BRA		366	venung i	ables		
Vent Terminal Bracket - 3" (76 mm)	KGAVT0201BRA						
Vent Kit – Rubber Coupling	KGAAC0101RVC		See	Venting Ta	ables		
Condensate Drainage Accessories							
Freeze Protect Kit - Heat Tape	KGAHT0101CFP	•	•	•	٠	•	
CPVC to PVC Drain Adapters - 1/2" CPVC to 3/4" PVC	KGAAD0110PVC	•	•	•	٠	•	
Horizontal Trap Grommet - Direct Vent	KGACK0101HCK		All I	DV Horizo	ntal	<u> </u>	
Condensate Neutralizer Kit	P908-0001	•	•	•	•	•	
External Trap Kit	KGAET0201ETK	٠	٠	•	٠	٠	
Ductwork Adapter Accessories						<u> </u>	
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) 21.0-in. wide	KGARP0301B21			•	•		
Return Air Base (Upflow Applications) 24.5-in. wide	KGARP0301B24					•	
IAQ Device Duct Adapters 20.0-in. IAQ to 16 in. Side Return	KGAAD0101MEC		20"x2	5" IAQ D	evices		
IAQ Device Duct Adapters 24.0-in. IAQ to 16 in. Side Return	KGAAD0201MEC			5" IAQ D			
Gas Conversion Accessories	ING/VIBO201WE0				011000		
Gas Conversion Kit - Nat to LP; Var-speed Products	KGBNP5201VSP	•	•	•	•	•	
Gas Conversion Kit - LP to Nat; Var-speed Products	KGBPN4401VSP	•	•	•	•	•	
Gas Orifice Kit - #42 (Nat Gas)	LH32DB207	•	•	•	•	•	
Gas Orifice Kit - #43 (Nat Gas)	LH32DB207	•	•	•	•	•	
Gas Orifice Kit - #44 (Nat Gas)	LH32DB202	•	•	•	•	•	
Gas Orifice Kit - #45 (Nat Gas)	LH32DB205	•	•	•	•	•	
Gas Orifice Kit - #46 (Nat Gas)	LH32DB203	•	•	•	•	•	
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)	LH32DB200	•	•	•	•	•	
Gas Orifice Kit - #56 (LP)	LH32DB201	•	•	•	•	•	
Gas Orifice Kit - 1.25mm (LP)	LH32DB200	•	•	•	•	•	
Gas Orifice Kit - 1.30mm (LP)	LH32DB209	•	•	•	•	•	
Control Accessories	EIISZDBZIU	•	•	•	•	•	
ECM Motor Simulator Kit	KGBSD0301FMS	•	•	•	•	•	
Advanced Product Monitor - APM	KGASD0301APM	•	•	•	•	•	
Evolution® Touch Control – Wi–Fi	SYSTXBBECW01	•	•	•	•	•	
Evolution® Touch Control – Non–Wi–Fi	SYSTXBBECN01	•		•	•		
IAQ Accessories	STSTABLEINET	•	•	•	•	•	
Filter Pack (6 pack) – Washable - 16x25x1 (406x635x25 mm)	KGAWF1306UFR						
Filter Pack (6 pack) – Washable - 10223 (4000035225 mm)	KGAWF1506UFR	•	•	•	•	•	
EZ-Flex Filter - 16" (406 mm)	EXPXXFIL0016	•		h EZXCAI		•	
EZ-Flex Filter - 20" (508 mm)	EXPXXFIL0020			h EZXCA			
EZ-Flex Filter - 24" (610 mm)	EXPXXFIL0020			h EZXCA			
				h EZXCAI			
EZ-Flex Filter with End Caps - 16" (406 mm)	EXPXXUNV0016						
EZ-Flex Filter with End Caps - 20" (508 mm) EZ-Flex Filter with End Caps - 24" (610 mm)	EXPXXUNV0020 EXPXXUNV0024			h EZXCAI h EZXCAI			
						-	
Cartridge Media Filter - 16" (406 mm)	FILXXCAR0016			FILCAB			
Cartridge Media Filter - 20" (508 mm)	FILXXCAR0020			FILCAB			
Cartridge Media Filter - 24" (610 mm)	FILXXCAR0024			FILCAB			
Bryant Evolution Air Purifier - 16x25 (406x635 mm)	GAPAAXBB1625-A08			to 1600 C			
Bryant Evolution Air Purifier - 20x25 (508x635 mm)	GAPAAXBB2025-A08			to 2000 C			
Bryant Evolution Air Purifier Repl. Filter- 16x25 (406x635 mm)	GAPACCCAR1625-A05			AXCC162			
Bryant Evolution Air Purifier Repl. Filter- 20x25 (508x635 mm)	GAPACCCAR2025-A05			AXCC202			
Bryant Preferred [™] Air Purifier - 16x25 (508x635 mm)	PGAPAXX1625			to 1600 C			
Bryant Preferred [™] Air Purifier - 20x25 (508x635 mm)	PGAPAXX2025		Up	to 2000 C	÷нМ		
Bryant Preferred [™] Air Purifier Repl Filter - 16x25 (406x635 mm)	PGAPXCAR1625-A02						
Bryant Preferred™ Air Purifier Repl. Filter - 20x25 (508x635 mm)	PGAPXCAR2025-A02						
Ised with the model furnace							

• = Used with the model furnace

	AC ⁴ AND HEATING AIR DELIVERY - CFM (Bottom Return ⁵ With Filter) AC/CF Switch Settings External Static Pressure (ESP) SWx-3 SWx-1 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0												
Unit Size							Extern	al 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
42060				-	-				-		-	-	
AC Default:	OFF	OFF	OFF	1060	1070	1080	1080	1075	1065	1050	1035	1025	1010
05.0.4	055	055	055	L 5 4 5	500	500	505	510	1				
CF Default:	OFF	OFF	OFF	545	530	520	525	510			See note 4	4	
	OFF	OFF	ON	545	530	520	525	510			See note 4	4	
1	OFF	OFF		545	550	520	525	510		、 		+	
1 -	OFF	ON	OFF	710	710	710	695	690		<u> </u>	L See note 4	4	
1		UN	011	110	710	110	000	000					
1 1	OFF	ON	ON	875	880	890	895	895	890	885	880	870	855
AC (SW2)													
AC (3 <i>W2)</i>	ON	OFF	OFF	1060	1070	1080	1080	1075	1065	1050	1035	1025	1010
CF (SW3)													
i t	ON	OFF	ON	1235	1240	1250	1255	1255	1250	1230	1190	1155	1115
1 1													
1 1	ON	ON	OFF	1235	1240	1250	1255	1255	1250	1230	1190	1155	1115
1 1													
	ON	ON	ON	1235	1240	1250	1255	1255	1250	1230	1190	1155	1115
				-									
AC SW2:	Maxi	mum Clg Ai	rflow ²	1425	1425	1405	1370	1335	1300	1260	1225	1190	1155
				T	-		-		T	T	T	I	T
Heating (SW1)	Hiç	gh Heat Airfl	ow ³	1075	1085	1095	1095	1090	1080	1065	1050	1035	1020
(0117)													
1 ł	lo	w Heat Airfl	ow ³	855	855	860	870	870	865	860	855	845	785
I													
Unit Size	AC/C	F Switch S	ettings				Extern	al Static	Pressure	e (ESP)			
1 1	SWx-3	SWx-2	SWx-1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.0	1.0
	U IIX U	0007-2	3007-1	0.1	0.2	0.0	0.4	0.5	0.0	0.7	0.0	0.9	1.0
42080	UIIXU	0117-2	3002-1	0.1	0.2	0.0	0.4	0.5	0.0	0.7	0.0	0.9	1.0
42080 AC Default:	OFF	OFF	OFF	1055	1065	1080	1075	1065	1050	1045	1035	1025	1005
AC Default:	OFF	OFF	OFF	1055		1080	1075	1065		1045	1035	1025	
										1045	<u> </u>	1025	
AC Default:	OFF	OFF	OFF OFF	1055 520	1065 505	1080 505	1075 495	1065 490		1045	1035 See note 4	1025 4	
AC Default:	OFF	OFF	OFF	1055	1065	1080	1075	1065		1045	1035	1025 4	
AC Default:	OFF OFF OFF	OFF OFF OFF	OFF OFF ON	1055 520 520	1065 505 505	1080 505 505	1075 495 495	1065 490 490		1045	1035 See note 4 See note 4	1025 4 4	
AC Default:	OFF	OFF	OFF OFF	1055 520	1065 505	1080 505	1075 495	1065 490		1045	1035 See note 4	1025 4 4	
AC Default:	OFF OFF OFF OFF	OFF OFF OFF ON	OFF OFF ON OFF	1055 520 520 665	1065 505 505 685	1080 505 505 680	1075 495 495 660	1065 490 490 665	1050	1045 5 5 5	1035 See note « See note « See note «	1025 4 4 4 4	1005
AC Default: CF Default:	OFF OFF OFF	OFF OFF OFF	OFF OFF ON	1055 520 520	1065 505 505	1080 505 505	1075 495 495	1065 490 490		1045	1035 See note 4 See note 4	1025 4 4	
AC Default:	OFF OFF OFF OFF	OFF OFF OFF ON ON	OFF OFF ON OFF ON	1055 520 520 665 885	1065 505 505 685 895	1080 505 505 680 905	1075 495 495 660 900	1065 490 490 665 900	1050 	1045	1035 See note 4 See note 4 See note 4 875	1025 4 4 860	1005 845
AC Default: CF Default: AC (SW2)	OFF OFF OFF OFF	OFF OFF OFF ON	OFF OFF ON OFF	1055 520 520 665	1065 505 505 685	1080 505 505 680	1075 495 495 660	1065 490 490 665	1050	1045 5 5 5	1035 See note « See note « See note «	1025 4 4 4 4	1005
AC Default: CF Default:	OFF OFF OFF OFF OFF ON	OFF OFF OFF ON ON OFF	OFF OFF ON OFF ON OFF	1055 520 520 665 885 1055	1065 505 505 685 895 1065	1080 505 505 680 905 1080	1075 495 495 660 900 1075	1065 490 490 665 900 1065	1050 	1045 5 5 885 1045	1035 See note 4 See note 4 See note 4 875 1035	1025 4 4 4 860 1025	1005 845 1005
AC Default: CF Default: AC (SW2)	OFF OFF OFF OFF	OFF OFF OFF ON ON	OFF OFF ON OFF ON	1055 520 520 665 885	1065 505 505 685 895	1080 505 505 680 905	1075 495 495 660 900	1065 490 490 665 900	1050 	1045	1035 See note 4 See note 4 See note 4 875	1025 4 4 4 860	1005 845
AC Default: CF Default: AC (SW2)	OFF OFF OFF OFF OFF ON	OFF OFF OFF ON ON OFF	OFF OFF ON OFF ON OFF	1055 520 520 665 885 1055	1065 505 505 685 895 1065	1080 505 505 680 905 1080	1075 495 495 660 900 1075	1065 490 490 665 900 1065	1050 	1045 5 5 885 1045	1035 See note 4 See note 4 See note 4 875 1035	1025 4 4 4 860 1025	1005 845 1005
AC Default: CF Default: AC (SW2)	OFF OFF OFF OFF OFF ON ON	OFF OFF OFF ON ON OFF	OFF OFF ON OFF ON OFF	1055 520 520 665 885 1055 1245	1065 505 505 685 895 1065 1245	1080 505 505 680 905 1080 1255	1075 495 495 660 900 1075 1255	1065 490 490 665 900 900 1065 1260	1050 	1045 5 5 885 1045 1250	1035 See note 4 See note 4 875 1035 1235	1025 4 4 860 1025 1220	1005 845 1005 1185
AC Default: CF Default: AC (SW2)	OFF OFF OFF OFF OFF ON ON	OFF OFF OFF ON ON OFF	OFF OFF ON OFF ON OFF	1055 520 520 665 885 1055 1245	1065 505 505 685 895 1065 1245	1080 505 505 680 905 1080 1255	1075 495 495 660 900 1075 1255	1065 490 490 665 900 900 1065 1260	1050 	1045 5 5 885 1045 1250	1035 See note 4 See note 4 875 1035 1235	1025 4 4 860 1025 1220	1005 845 1005 1185
AC Default: CF Default: AC (SW2)	OFF OFF OFF OFF OFF ON ON	OFF OFF OFF ON ON OFF OFF ON	OFF OFF OFF ON OFF ON OFF	1055 520 520 665 885 1055 1245 1245	1065 505 505 685 895 1065 1245 1245	1080 505 505 680 905 1080 1255 1255	1075 495 495 660 900 1075 1255 1255	1065 490 665 900 1065 1260	1050 	1045 (885 1045 1250 1250	1035 See note 4 See note 4 875 1035 1235 1235	1025 4 4 4 860 1025 1220 1220	1005 845 1005 1185 1185
AC Default: CF Default: AC (SW2)	OFF OFF OFF OFF OFF ON ON ON	OFF OFF OFF ON ON OFF OFF ON	OFF OFF ON OFF ON OFF ON OFF	1055 520 520 665 885 1055 1245 1245	1065 505 505 685 895 1065 1245 1245	1080 505 505 680 905 1080 1255 1255	1075 495 495 660 900 1075 1255 1255	1065 490 665 900 1065 1260	1050 	1045 (885 1045 1250 1250	1035 See note 4 See note 4 875 1035 1235 1235	1025 4 4 4 860 1025 1220 1220	1005 845 1005 1185 1185
AC Default: CF Default: AC (SW2) CF (SW3)	OFF OFF OFF OFF OFF ON ON ON	OFF OFF ON ON OFF OFF OFF	OFF OFF ON OFF ON OFF ON OFF	1055 520 520 665 885 1055 1245 1245 1245	1065 505 505 685 895 1065 1245 1245 1245	1080 505 505 680 905 1080 1255 1255	1075 495 495 660 900 1075 1255 1255	1065 490 665 900 1065 1260 1260	1050 	1045 5 5 5 7 885 885 1045 1250 1250 1250	1035 See note 4 See note 4 875 1035 1235 1235	1025 4 4 860 1025 1220 1220 1220	1005 845 1005 1185 1185 1185
AC Default: CF Default: AC (SW2) CF (SW3) AC SW2: Heating	OFF OFF OFF OFF OFF ON ON ON ON ON	OFF OFF OFF ON ON OFF OFF ON ON	OFF OFF ON OFF ON OFF ON OFF	1055 520 520 665 885 1055 1245 1245 1245 1245	1065 505 505 685 895 1065 1245 1245 1245 1245	1080 505 505 680 905 1080 1255 1255 1255	1075 495 660 900 1075 1255 1255 1255	1065 490 665 900 1065 1260 1260 1260 1260	1050 1050 895 1050 1255 1255 1255 1255	1045 (885 1045 1250 1250 1250 1250	1035 See note 4 See note 4 875 1035 1235 1235 1235 1235	1025 4 4 4 1025 1025 1220 1220 1220 1220	1005 1005 845 1005 1185 1185 1185 1185 1185
AC Default: CF Default: AC (SW2) CF (SW3) AC SW2:	OFF OFF OFF OFF OFF ON ON ON ON ON	OFF OFF ON ON OFF OFF OFF	OFF OFF ON OFF ON OFF ON OFF	1055 520 520 665 885 1055 1245 1245 1245	1065 505 505 685 895 1065 1245 1245 1245	1080 505 505 680 905 1080 1255 1255	1075 495 495 660 900 1075 1255 1255	1065 490 665 900 1065 1260 1260	1050 	1045 5 5 5 7 885 885 1045 1250 1250 1250	1035 See note 4 See note 4 875 1035 1235 1235	1025 4 4 860 1025 1220 1220 1220	1005 845 1005 1185 1185 1185
AC Default: CF Default: AC (SW2) CF (SW3) AC SW2: Heating	OFF OFF OFF OFF OFF ON ON ON ON ON	OFF OFF OFF ON ON OFF OFF ON ON	OFF OFF ON OFF ON OFF ON OFF ON orff ON	1055 520 520 665 885 1055 1245 1245 1245 1245	1065 505 505 685 895 1065 1245 1245 1245 1245	1080 505 505 680 905 1080 1255 1255 1255	1075 495 660 900 1075 1255 1255 1255	1065 490 665 900 1065 1260 1260 1260 1260	1050 1050 895 1050 1255 1255 1255 1255	1045 (885 1045 1250 1250 1250 1250	1035 See note 4 See note 4 875 1035 1235 1235 1235 1235	1025 4 4 4 1025 1025 1220 1220 1220 1220	1005 1005 845 1005 1185 1185 1185 1185 1185

AIR DELIVERY

986TB

AIR DELIVERY (CONTINUED)

AC⁴ AND HEATING AIR DELIVERY - CFM (Bottom Return⁵ With Filter)

Unit Size	AC/C	F Switch S	D HEATING ettings				,		Pressure	e (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
60080				T	1	1	1	1	1	1	1	1	
AC Default:	OFF	OFF	OFF	1745	1755	1755	1760	1755	1750	1745	1725	1705	1685
CF Default:	OFF	OFF	OFF	700	710	750	725	750		6	See note 4	4	
				1	1	1	1		1				
	OFF	OFF	ON	700	710	750	725	750		5	See note 4	4	
	OFF	ON	OFF	830	860	870	890	960		5	See note 4	4	
	OFF	ON	ON	1045	1045	1060	1070	1070	1070	1095	1090	1080	1070
AC (SW2)	ON	OFF	OFF	1215	1220	1245	1240	1235	1235	1225	1220	1235	1235
CF (SW3)					TEEG	1210	1210	1200	1200	TEEO	TEES	1200	1200
	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
			OFF	1745	1755	1755	1700	1755	1750	1745	1723	1705	1005
	ON	ON	ON	1745	1755	1755	1760	1755	1750	1745	1725	1705	1685
AC SW2:	Movi	mum Clg Ai	inflow 2	1000	1000	1045	1045	1045	1060	1050	1040	1015	1000
AC SW2:	IVIAX		iniow -	1920	1920	1945	1945	1945	1960	1950	1940	1915	1900
	Hiç	gh Heat Airfl	low ³	1340	1355	1370	1385	1380	1385	1400	1400	1385	1380
Heating (SW1)	-		0										
	Lo	w Heat Airfl	ow ³	1080	1115	1115	1120	1125	1135	1125	1120	1125	1110
Unit Size	AC/C	F Switch S	ettings				Extern	al Static	Pressure	e (ESP)			
	AC/C SWx-3	F Switch S SWx-2	ettings SWx-1	0.1	0.2	0.3	Extern 0.4	al Static 0.5	Pressure 0.6	e (ESP) 0.7	0.8	0.9	1.0
66100	SWx-3	SWx-2	SWx-1				0.4	0.5	0.6	0.7			
			-	0.1	0.2 1825	0.3 1840					0.8 1805	0.9 1780	1.0 1770
66100	SWx-3	SWx-2	SWx-1				0.4	0.5	0.6	0.7		1780	
66100 AC Default:	SWx-3 OFF OFF	SWx-2 OFF OFF	SWx-1 OFF OFF	1820 750	1825 740	1840 745	0.4 1845 730	0.5 1840 715	0.6	0.7	1805 See note 4	1780 4	
66100 AC Default:	SWx-3 OFF	SWx-2 OFF	SWx-1 OFF	1820	1825	1840	0.4 1845	0.5 1840	0.6	0.7	1805	1780 4	
66100 AC Default:	SWx-3 OFF OFF	SWx-2 OFF OFF	SWx-1 OFF OFF	1820 750	1825 740	1840 745	0.4 1845 730	0.5 1840 715	0.6	0.7	1805 See note 4	1780 4 4	
66100 AC Default:	SWx-3 OFF OFF OFF	SWx-2 OFF OFF OFF ON	SWx-1 OFF OFF ON OFF	1820 750 750	1825 740 740	1840 745 745	0.4 1845 730 730	0.5 1840 715 715	0.6	0.7	1805 See note 4 See note 4	1780 4 4	
66100 AC Default: CF Default:	SWx-3 OFF OFF	SWx-2 OFF OFF OFF	SWx-1 OFF OFF ON	1820 750 750	1825 740 740	1840 745 745	0.4 1845 730 730	0.5 1840 715 715	0.6	0.7	1805 See note 4 See note 4	1780 4 4	
66100 AC Default:	SWx-3 OFF OFF OFF	SWx-2 OFF OFF OFF ON	SWx-1 OFF OFF ON OFF	1820 750 750 900	1825 740 740 900	1840 745 745 915	0.4 1845 730 730 910	0.5 1840 715 715 905	0.6	0.7	1805 Gee note « Gee note « Gee note «	1780 4 4 4	1770
66100 AC Default: CF Default:	SWx-3 OFF OFF OFF OFF OFF ON	SWx-2 OFF OFF OFF ON ON OFF	SWx-1 OFF OFF ON OFF ON OFF	1820 750 750 900 1070	1825 740 740 900 1075	1840 745 745 915 1095	0.4 1845 730 730 910 1095	0.5 1840 715 715 905 1090	0.6 1835 1085	0.7	1805 Gee note 4 Gee note 4 Gee note 4 1080	1780 4 4 1065	1770
66100 AC Default: CF Default: AC (SW2)	SWx-3 OFF OFF OFF OFF OFF	SWx-2 OFF OFF OFF ON ON	SWx-1 OFF OFF ON OFF ON	1820 750 750 900 1070	1825 740 740 900 1075	1840 745 745 915 1095	0.4 1845 730 730 910 1095	0.5 1840 715 715 905 1090	0.6 1835 1085	0.7	1805 Gee note 4 Gee note 4 Gee note 4 1080	1780 4 4 1065	1770
66100 AC Default: CF Default: AC (SW2)	SWx-3 OFF OFF OFF OFF OFF ON ON	SWx-2 OFF OFF OFF ON ON ON OFF	SWx-1 OFF OFF ON OFF ON OFF	1820 750 750 900 1070 1280 1440	1825 740 740 900 1075 1285 1445	1840 745 745 915 1095 1305 1465	0.4 1845 730 730 910 1095 1305 1465	0.5 1840 715 715 905 1090 1310 1470	0.6 1835 1835 1085 1305 1485	0.7	1805 Gee note 4 Gee note 4 1080 1300 1485	1780 4 4 1065 1290 1475	1770 1070 1285 1460
66100 AC Default: CF Default: AC (SW2)	SWx-3 OFF OFF OFF OFF OFF ON	SWx-2 OFF OFF OFF ON ON OFF	SWx-1 OFF OFF ON OFF ON OFF	1820 750 750 900 1070 1280	1825 740 740 900 1075 1285	1840 745 745 915 1095 1305	0.4 1845 730 730 910 1095 1305	0.5 1840 715 715 905 1090 1310	0.6 1835 1085 1305	0.7	1805 See note 4 See note 4 See note 4 1080	1780 4 4 1065 1290	1770
66100 AC Default: CF Default: AC (SW2)	SWx-3 OFF OFF OFF OFF OFF ON ON	SWx-2 OFF OFF OFF ON ON ON OFF	SWx-1 OFF OFF ON OFF ON OFF	1820 750 750 900 1070 1280 1440	1825 740 740 900 1075 1285 1445	1840 745 745 915 1095 1305 1465	0.4 1845 730 730 910 1095 1305 1465	0.5 1840 715 715 905 1090 1310 1470	0.6 1835 1835 1085 1305 1485	0.7	1805 Gee note 4 Gee note 4 1080 1300 1485	1780 4 4 1065 1290 1475	1770 1070 1285 1460
66100 AC Default: CF Default: AC (SW2) CF (SW3)	SWx-3 OFF OFF OFF OFF OFF OFF ON ON ON	SWx-2 OFF OFF OFF ON ON OFF OFF ON ON	SWx-1 OFF OFF ON OFF ON OFF ON OFF	1820 750 750 900 1070 1280 1440 1820 2135	1825 740 740 900 1075 1285 1445 1825 2140	1840 745 745 915 1095 1305 1465 1840 2140	0.4 1845 730 730 910 1095 11095 11305 1465 1845 2135	0.5 1840 715 715 905 1090 1310 1470 1470 1840 2140	0.6 1835 1835 1085 1085 1305 1485 1485 1835 2130	0.7 1825 5 5 1095 1295 1480 1825 2115	1805 Gee note 4 Gee note 4 1080 1300 1485 1805 2100	1780 4 4 1065 1290 1475 1780 2070	1770 1070 1285 1460 1770 2015
66100 AC Default: CF Default: AC (SW2)	SWx-3 OFF OFF OFF OFF OFF OFF ON ON ON	SWx-2 OFF OFF OFF ON ON OFF OFF	SWx-1 OFF OFF ON OFF ON OFF ON OFF	1820 750 750 900 1070 1280 1280 1440 1820	1825 740 900 1075 1285 1445 1825	1840 745 745 915 1095 1305 1305 1465 1840	0.4 1845 730 730 910 1095 1305 1305 1465 1845	0.5 1840 715 715 905 1090 1310 1310 1470 1840	0.6 1835 1835 1085 1305 1305 1485 1835	0.7 1825 5 5 5 5 5 5 5 5 5 5 5 5 5	1805 See note 4 See note 4 1080 1300 1485 1805	1780 4 4 1065 1290 1475 1780	1770 1070 1285 1460 1770
66100 AC Default: CF Default: AC (SW2) CF (SW3) AC SW2:	SWx-3 OFF OFF OFF OFF OFF OFF ON ON ON ON ON	SWx-2 OFF OFF OFF ON ON OFF OFF ON ON	SWx-1 OFF OFF ON OFF ON OFF ON OFF ON	1820 750 750 900 1070 1280 1440 1820 2135	1825 740 740 900 1075 1285 1445 1825 2140	1840 745 745 915 1095 1305 1465 1840 2140	0.4 1845 730 730 910 1095 11095 11305 1465 1845 2135	0.5 1840 715 715 905 1090 1310 1470 1470 1840 2140	0.6 1835 1835 1085 1085 1305 1485 1485 1835 2130	0.7 1825 5 5 1095 1295 1480 1825 2115	1805 Gee note 4 Gee note 4 1080 1300 1485 1805 2100	1780 4 4 1065 1290 1475 1780 2070	1770 1070 1285 1460 1770 2015
66100 AC Default: CF Default: AC (SW2) CF (SW3)	SWx-3 OFF OFF OFF OFF OFF OFF ON ON ON ON ON	SWx-2 OFF OFF OFF ON ON OFF OFF OFF ON ON ON	SWx-1 OFF OFF ON OFF ON OFF ON OFF ON irflow ²	1820 750 750 900 1070 1280 1280 1440 1820 2135 2160	1825 740 740 900 1075 1285 11445 1825 1825 2140 2165	1840 745 745 915 1095 1305 1465 1840 2140	0.4 1845 730 730 910 1095 1305 1305 1465 1845 1845 2135	0.5 1840 715 715 905 1090 1310 1310 1470 1840 2140	0.6 1835 1835 1085 1085 1305 1485 1835 2130 2150	0.7 1825 5 5 5 5 5 5 5 5 5 5 5 5 5	1805 See note 4 See note 4 1080 1300 1485 1805 2100 2120	1780 4 4 1065 1290 1475 1780 2070 2065	1770 1070 1285 1460 1770 2015 2020

Unit Size	AC/C	F Switch S	ettings				Extern	al Static	Pressure	e (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
66120													
AC Default:	OFF	OFF	OFF	1850	1855	1860	1855	1850	1830	1805	1775	1750	1730
CF Default:	OFF	OFF	OFF	930	925	915	900	885		ŝ	See note 4	4	
	-	-				-	-		-				
	OFF	OFF	ON	765	745	740	705	680		5	See note 4	4	
	OFF	ON	OFF	930	925	915	900	885		5	See note 4	4	
	OFF	ON	ON	1095	1100	1110	1105	1085		5	See note 4	4	_
AC (SW2)		055	0.55	4005	1055	1005	1000	1075	1005	1070	1000	1050	1000
CF (SW3)	ON	OFF	OFF	1265	1255	1265	1280	1275	1285	1270	1260	1250	1230
	ON	OFF	ON	1465	1455	1470	1465	1465	1470	1455	1450	1435	1415
	ON	UFF	UN	1400	1455	1470	1405	1405	1470	1455	1450	1435	1415
	ON	ON	OFF	1850	1855	1860	1855	1850	1830	1805	1775	1750	1730
	ON			1050	1055	1000	1055	1050	1000	1005	1773	1750	1730
	ON	ON	ON	2200	2200	2200	2190	2185	2170	2145	2085	1990	1890
	<u> </u>	<u> </u>		1		1			1	1			
AC SW2:	Max	imum Clg Ai	irflow ²	2200	2200	2200	2190	2185	2170	2145	2085	1990	1890
		-			L	1			1	1	L		
	Hig	gh Heat Airfl	ow ³	1815	1820	1825	1820	1815	1795	1775	1745	1720	1700
Heating (SW1)													
(0111)	Lo	w Heat Airfl	ow ³	1640	1640	1645	1650	1645	1645	1630	1620	1600	1580

AIR DELIVERY (CONTINUED)

AC⁴ AND HEATING AIR DELIVERY - CFM (Bottom Return⁵ With Filter)

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

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

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 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" (533 mm) casing size furnaces are 5% less on side return only installations.

 Return air above 1800 CFM on 24.5" (622 mm) casing sizes requires two sides, one side and bottom, or bottom only to allow sufficient airflow to the furnace.

Airflows over 1800 CFM require bottom return, two-side return, or bottom and side return; otherwise excessive watt draws may result. A
minimum filter size of 20" x 25" (508 x 635 mm) is required.

MAXIMUM EQUIVALENT VENT LENGTH - FT. (M)

NOTE: Maximum Equivalent Vent Length (MEVL) includes standard and concentric vent termination and does NOT include elbows. Use Table 2 - Deductions from Maximum Equivalent Vent Length to determine allowable vent length for each application.

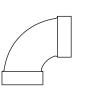
Altitude	Unit Size BTU/Hr		DIR	ECT VEN	IT (2-PIPE)	AND NO	N-DIRECT	VENT (1-	PIPE)		
FT (M)					Ve	ent Pipe 🛛	Diameter (i	n.) 1			
		1	-1/2		2	2-	-1/2		3		4
	40,000 ³	50	(15.2)	210	(64.0)	250	(76.2)	NA ²		NA	
F	60,000	30	(9.1)	135	(41.1)	235	(71.6)	265	(80.8)	NA	
0 to 2000	80,000	20	(6.1)	70	(21.3)	175	(53.3)	235	(71.6)	265	(80.8)
(0 to 610)	100,000	NA		25	(7.6)	110	(33.5)	235	(71.6)	265	(80.8)
	120,000	NA		NA		15	(4.6)	100	(30.5)	250	(76.2)
F	140,000 ⁴	NA		NA		10	(3.0)	90	(27.4)	210	(64.0)
	40,000	45	(13.7)	198	(60.4)	232	(70.7)	NA		NA	
	60,000	27	(8.2)	127	(38.7)	222	(67.7)	250	(76.2)	NA	
2001 to 3000	80,000	17	(5.2)	64	(19.5)	165	(50.3)	222	(67.7)	249	(75.9)
(610 to 914)	100,000	NA		22	(6.7)	104	(31.7)	223	(68.0)	250	(76.2)
· · ·	120,000	NA		NA		11	(3.4)	93	(28.3)	237	(72.2)
F	140,000 ⁴	NA		NA		NA	1	80	(24.4)	185	(56.4)
	40,000	39	(11.9)	184	(56.1)	214	(65.2)	NA		NA	
	60,000	23	(7.0)	119	(36.3)	210	(64.0)	235	(71.6)	NA	
3001 to 4000	80,000	15	(4.6)	59	(18.0)	155	(47.2)	210	(64.0)	232	(70.7)
(914 to 1219)	100,000	NA		19	(5.8)	98	(29.9)	211	(64.3)	236	(71.9)
· · · -	120,000	NA		NA		8	(2.4)	86	(26.2)	224	(68.3)
F	140,000 ⁴	NA		NA		NA	1	79	(24.1)	158	(48.2)
	40,000	36	(11.0)	177	(53.9)	205	(62.5)	NA		NA	
	60,000	21	(6.4)	115	(35.1)	204	(62.2)	228	(69.5)	NA	
4001 to 4500	80,000	14	(4.3)	56	(17.1)	150	(45.7)	202	(61.6)	224	(68.3)
(1219 to 1370)	100,000	NA		17	(5.2)	94	(28.7)	205	(62.5)	229	(69.8)
	120,000	NA		NA		NA		83	(25.3)	217	(66.1)
	140,000 ⁴	NA		NA		NA		69	(21.0)	146	(44.5)

Table 1 – Maximum Equivalent Vent Length - Ft. (M) 0 to 4500 Ft. (0 to 1370 M) Altitude

NOTES: See notes at end of venting tables. See Table 3 for altitudes over 4500 ft. (1370 M)

ELBOW CONFIGURATIONS

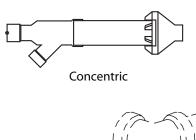




Long







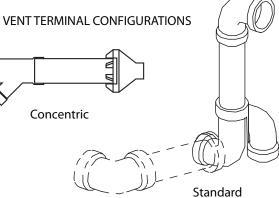


Table 2 – Deductions from Maximum Equivalent Vent Length - Ft. (M)

Pipe Diameter (in):	1-	1/2	:	2	2-	1/2	:	3		4
Mitered 90° Elbow	8	(2.4)	8	(2.4)	8	(2.4)	8	(2.4)	8	(2.4)
Medium Radius 90º Elbow	5	(1.5)	5	(1.5)	5	(1.5)	5	(1.5)	5	(1.5)
Long Radius 90° Elbow	3	(0.9)	3	(0.9)	3	(0.9)	3	(0.9)	3	(0.9)
Mitered 45° Elbow	4	(1.2)	4	(1.2)	4	(1.2)	4	(1.2)	4	(1.2)
Medium Radius 45° Elbow	2.5	(0.8)	2.5	(0.8)	2.5	(0.8)	2.5	(0.8)	2.5	(0.8)
Long Radius 45° Elbow	1.5	(0.5)	1.5	(0.5)	1.5	(0.5)	1.5	(0.5)	1.5	(0.5)
Тее	16	(4.9)	16	(4.9)	16	(4.9)	16	(4.9)	16	(4.9)
Concentric Vent Termination	١	IA	0	(0.0)	Ν	IA	0	(0.0)	١	A
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 2.

Standard vent terminations or factory accessory concentric vent terminations count for zero deduction.

See vent system manufacturer's data for equivalent lengths of flexible vent pipe or other termination systems. **DO NOT ASSUME** that one foot of flexible vent pipe equals one foot of straight PVC/ABS DWV vent pipe.

Compare the Total Equivalent Vent Length to the Maximum Equivalent Vent Lengths in Tables 1 and 3.

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?

Is TEVL less than MEVL?					YES	Therefore, 2" pipe may be used
Maximum Equivalent Vent Length (MEVL)					127 ft.	For 2" pipe from Table 1
Total Equivalent Vent Length (TEVL)					112 ft.	Add all of the above lines
Add correction for flexible vent pipe, if any					0 ft.	From Vent Manufacturer's instructions; zero for PVC/ABS DWV
Add equiv length of vent termination					0 ft.	From Table 2
Add equiv length of (2) 45° long-radius elbows (use the highest number of elbows for either the vent or inlet pipe)	2	x	1.5 ft	=	3 ft.	From Table 2
Add equiv length of (3) 90° long-radius elbows (use the highest number of elbows for either the vent or inlet pipe)	3	x	3 ft	=	9 ft.	From Table 2
Measure the required linear length of air inlet and ve longest of the two here:	nt pipe;	inse	rt the		100 ft	Use length of the longer of the vent or air inlet piping system

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?

Is TEVL less than MEVL?					YES	Therefore, 80 mm pipe may be used
Maximum Equivalent Vent Length (MEVL)					250 ft.	For 3" pipe from Table 1
						•
Is TEVL less than MEVL?					NO	Therefore, 60mm pipe may NOT be used; try 80 mm
Maximum Equivalent Vent Length (MEVL)					127 ft.	For 2" pipe from Table 1
					105 11.	
Total Equivalent Vent Length (TEVL)				I	163 ft.	Add all of the above lines
Add correction for flexible vent pipe, if any	1.8	x	20 ft	=	36 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 equiv length of (2) 45° long-radius elbows (use the highest number of elbows for either the vent or inlet pipe)	0	x		=	0 ft.	From Vent Manufacturer's instructions
Add equiv length of (3) 90° long-radius elbows (use the highest number of elbows for either the vent or inlet pipe)	3	x	3 ft	=	9 ft.	From Vent Manufacturer's instructions
Measure the required linear length of air inlet and ve longest of the two here:	nt pipe;	inse	rt the		100 ft	Use length of the longer of the vent or air inlet piping system

MAXIMUM EQUIVALENT VENT LENGTH - FT. (M) (CONTINUED)

NOTE: Maximum Equivalent Vent Length (MEVL) includes standard and concentric vent termination and does NOT include elbows. Use Table 2 - Deductions from Maximum Equivalent Vent Length to determine allowable vent length for each application.

T		1	4301 10 10		(1371 to 3(DIRECT V	,	PE) AND S	SINGI F-PI	PE		
Altitude	Unit Size					•	Diameter (i				
FT (M) ⁵	onn oize	1.	-1/2	1	2	•	1/2		3		4
	40,000	33	(10.1)	171	(52.1)	196	(59.7)	NA ²		NA	
_	60,000	20	(6.1)	111	(33.8)	198	(60.4)	221	(67.4)	NA	
4501 to 5000	80,000	13	(4.0)	54	(16.5)	146	(44.5)	195	(59.4)	216	(65.8)
(1370 to 1524)	100,000	NA	, ,	16	(4.9)	91	(27.7)	200	(61.0)	222	(67.7)
	120,000	NA		NA	. ,	NA	NA		(24.4)	211	(64.3)
	140,000 ⁴	NA		NA		NA		60	(18.3)	134	(40.8)
	40,000	27	(8.2)	158	(48.2)	179	(54.6)	NA	_ · ·	NA	_ · ·
	60,000	16	(4.9)	103	(31.4)	186	(56.7)	207	(63.1)	NA	
5001 to 6000	80,000	11	(3.4)	49	(14.9)	137	(41.8)	183	(55.8)	200	(61.0)
(1524 to 1829)	100,000	NA		12	(3.7)	85	(25.9)	188	(57.3)	208	(63.4)
· /	120,000	NA		NA		NA		74	(22.6)	199	(60.7)
	140,000 ⁴	NA		NA		NA		50	(15.2)	109	(33.2)
	40,000	21	(6.4)	145	(44.2)	162	(49.4)	NA		NA	
	60,000	13	(4.0)	96	(29.3)	174	(53.0)	194	(59.1)	NA	
6001 to 7000	80,000	NA	, ,	44	(13.4)	120	(36.6)	171	(52.1)	185	(56.4)
(1829 to 2134)	100,000	NA		10	(3.0)	79	(24.1)	178	(54.3)	195	(59.4)
· /	120,000	NA		NA		NA		68	(20.7)	187	(57.0)
	140,000 ⁴	NA		NA		NA		41	(12.5)	87	(26.5)
	40,000	15	(4.6)	133	(40.5)	146	(44.5)	NA		NA	
	60,000	10	(3.0)	89	(27.1)	163	(49.7)	181	(55.2)	NA	
7001 to 8000	80,000	NA		40	(12.2)	120	(36.6)	159	(48.5)	170	(51.8)
(2134 to 2438)	100,000	NA		NA	1	73	(22.3)	167	(50.9)	182	(55.5)
	120,000	NA		NA		NA		62	(18.9)	175	(53.3)
	140,000 ⁴	NA		NA		NA		32	(9.8)	63	(19.2)
	40,000	10	(3.0)	121	(36.9)	130	(39.6)	NA		NA	
	60,000	7	(2.1)	82	(25.0)	152	(46.3)	168	(51.2)	NA	
8001 to 9000	80,000	NA	1	35	(10.7)	111	(33.8)	148	(45.1)	156	(47.5)
(2438 to 2743)	100,000	NA		NA		67	(20.4)	157	(47.9)	170	(51.8)
	120,000	NA		NA		NA		56	(17.1)	164	(50.0)
	140,000 ⁴	NA		NA		NA		23	(7.0)	42	(12.8)
	40,000	5	(1.5)	110	(33.5)	115	(35.1)	NA		NA	
	60,000	NA		76	(23.2)	142	(43.3)	156	(47.5)	NA	
9001 to 10,000	80,000	NA		31	(9.4)	103	(31.4)	137	(41.8)	142	(43.3)
(2743 to 3048)	100,000	NA		NA		62	(18.9)	147	(44.8)	157	(47.9)
-	120,000	NA		NA		NA		51	(15.5)	153	(46.6)
	140,000 ⁴	NA		NA		NA		16	(4.9)	20	(6.1)

Table 3 – Maximum Equivalent Vent Length - Ft. (M)4501 to 10,000 Ft. (1371 to 3048 M) Altitude

NOTES:

1. Use only the vent pipe sizes shown for each furnace. It is NOT necessary to choose the smallest diameter pipe possible for venting.

2. NA - Not allowed. Pressure switch will not close, or flame disturbance may result.

3. Total equivalent vent lengths under 10' for 40,000 BTUH furnaces from 0 to 2000 ft. (0 to 610 M) above sea level require use of an outlet choke plate . Failure to use an outlet choke when required may result in flame disturbance or flame sense lockout.

4. Not all furnace families include 140,000 BTUH input models.

5. Vent sizing for Canadian installations over 4500 ft (1370 M) above sea level are subject to acceptance by local authorities having jurisdiction.

6. Size both the combustion air and vent pipe independently, then use the larger size for both pipes.

7. Assume the two 45° elbows equal one 90° elbow. Wide radius elbows are desirable and may be required in some cases.

8. Elbow and pipe sections within the furnace casing and at the vent termination should not be included in vent length or elbow count.

9. The minimum pipe length is 5 ft. (1.5 M) linear feet (meters) for all applications.

10. Use 3-in. (76 mm) diameter vent termination kit for installations requiring 4-in. (102 mm) diameter pipe.

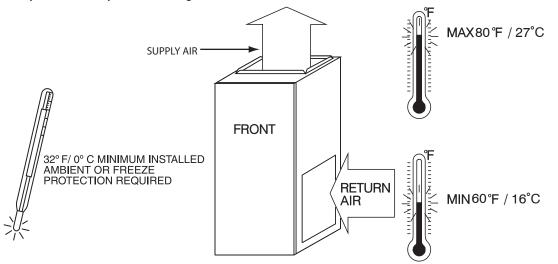
				No	Insulat	ion			3/8-	in. (9.5	mm)			1/2-i	n. (12.7	mm)	
Two Stage	Winter Design	Pipe	Pip	e Diam	eter-in	ches (r	nm)	Pip	e Diam	eter-ind	ches (m	im)	Pip	oe Diam	eter-in	ches (m	nm)
Furnace High Heat Input	Temp ° F (° Č)	Length in Ft. & M	1.5	2.0	2.5	3.0	4.0	1.5	2.0	2.5	3.0	4.0	1.5	2.0	2.5	3.0	4.
			(38)	(51)	(64)	(76)	(102)	(38)	(51)	(64)	(76)	(102)	(38)	(51)	(64)	(76)	(10
	/	Ft.	40.0	35.0	35.0	N/A	N/A	50.0	104.0	94.0	N/A	N/A	50.0	122.0	110.0	N/A	N/
	20 (-10)	М	12.2	10.7	10.7	N/A	N/A	15.2	31.7	28.7	N/A	N/A	15.2	37.2	33.5	N/A	N,
		Ft.	19.0	14.0	12.0	N/A	N/A	50.0	61.0	54.0	N/A	N/A	50.0	74.0	65.0	N/A	N
	0 (-20)	М	5.8	4.3	3.7	N/A	N/A	15.2	18.6	16.5	N/A	N/A	15.2	22.6	19.8	N/A	N,
40000*		Ft.	9.0	3.0	1.0	N/A	N/A	50.0	41.0	35.0	N/A	N/A	50.0	51.0	43.0	N/A	N
	-20 (-30)	М	2.7	0.9	0.3	N/A	N/A	15.2	12.5	10.7	N/A	N/A	15.2	15.5	13.1	N/A	N
		Ft.	3.0	0.0	0.0	N/A	N/A	39.0	29.0	23.0	N/A	N/A	48.0	37.0	30.0	N/A	N
	-40 (-40)	М	0.9	0.0	0.0	N/A	N/A	11.9	8.8	7.0	N/A	N/A	14.6	11.3	9.1	N/A	N
						. ,					,					,	
		Ft.	30.0	51.0	51.0	45.0	N/A	30.0	135.0	138.0	120.0	N/A	30.0	135.0	162.0	141.0	N
	20 (-10)	M	9.1	15.5	15.5	13.7	N/A	9.1	41.1	42.1	36.6	N/A	9.1	41.1	49.4	43.0	N
		Ft.	30.0	24.0	23.0	16.0	N/A	30.0	93.0	82.0	69.0	N/A	30.0	111.0	98.0	83.0	N
	0 (-20)	M	9.1	7.3	7.0	4.9	N/A	9.1	28.3	25.0	21.0	N/A	9.1	33.8	29.9	25.3	N
60000		Ft.	18.0	11.0	9.0	1.0	N/A	30.0	65.0	20.0 56.0	44.0	N/A	30.0	79.0	68.0	55.0	N
	-20 (-30)	N	5.5	3.4	9.0 2.7	0.3	N/A	9.1	19.8	17.1	13.4	N/A	9.1	24.1	20.7	16.8	N
-		Ft.	10.0	3.4	0.0	0.0	N/A	30.0	48.0	40.0	29.0	N/A	30.0	59.0	50.0	38.0	N
	-40 (-40)	 М	1	0.9	0.0	0.0	N/A				29.0 8.8		9.1	18.0			N
		IVI	3.0	0.9	0.0	0.0	N/A	9.1	14.6	12.2	0.0	N/A	9.1	10.0	15.2	11.6	
		-				50.0	17.0		70.0	170.0	150.0	105.0		70.0	175.0	477.0	T
	20 (-10)	Ft.	20.0	64.0	64.0	56.0	47.0	20.0	70.0	173.0	150.0	125.0	20.0	70.0	175.0	177.0	14
	. ,	M	6.1	19.5	19.5	17.1	14.3	6.1	21.3	52.7	45.7	38.1	6.1	21.3	53.3	53.9	4
	0 (-20)	Ft.	20.0	32.0	30.0	22.0	11.0	20.0	70.0	104.0	87.0	67.0	20.0	70.0	124.0	104.0	82
80000	. ,	М	6.1	9.8	9.1	6.7	3.4	6.1	21.3	31.7	26.5	20.4	6.1	21.3	37.8	31.7	2
	-20 (-30)	Ft.	20.0	17.0	14.0	6.0	0.0	20.0	70.0	71.0	57.0	40.0	20.0	70.0	86.0	71.0	5
	()	М	6.1	5.2	4.3	1.8	0.0	6.1	21.3	21.6	17.4	12.2	6.1	21.3	26.2	21.6	1
	-40 (-40)	Ft.	15.0	7.0	5.0	0.0	0.0	20.0	61.0	52.0	40.0	24.0	20.0	70.0	64.0	50.0	3
	()	М	4.6	2.1	1.5	0.0	0.0	6.1	18.6	15.8	12.2	7.3	6.1	21.3	19.5	15.2	10
	20 (-10)	Ft.	N/A	25.0	79.0	70.0	59.0	N/A	25.0	110.0	186.0	155.0	N/A	25.0	110.0	219.0	18
	20 (-10)	М	N/A	7.6	24.1	21.3	18.0	N/A	7.6	33.5	56.7	47.2	N/A	7.6	33.5	66.8	55
	0 (-20)	Ft.	N/A	25.0	40.0	31.0	19.0	N/A	25.0	110.0	109.0	86.0	N/A	25.0	110.0	131.0	10
100000	0 (-20)	М	N/A	7.6	12.2	9.4	5.8	N/A	7.6	33.5	33.2	26.2	N/A	7.6	33.5	39.9	3-
100000	00 (00)	Ft.	N/A	23.0	21.0	13.0	0.0	N/A	25.0	91.0	74.0	54.0	N/A	25.0	110.0	90.0	68
	-20 (-30)	М	N/A	7.0	6.4	4.0	0.0	N/A	7.6	27.7	22.6	16.5	N/A	7.6	33.5	27.4	20
	40 (40)	Ft.	N/A	13.0	10.0	1.0	0.0	N/A	25.0	68.0	53.0	35.0	N/A	25.0	83.0	66.0	46
	-40 (-40)	М	N/A	4.0	3.0	0.3	0.0	N/A	7.6	20.7	16.2	10.7	N/A	7.6	25.3	20.1	14
																	-
	/ >	Ft.	N/A	N/A	15.0	85.0	73.0	N/A	N/A	15.0	100.0	190.0	N/A	N/A	15.0	100.0	22
	20 (-10)	М	N/A	N/A	4.6	25.9	22.3	N/A	N/A	4.6	30.5	57.9	N/A	N/A	4.6	30.5	68
		Ft.	N/A	N/A	15.0	41.0	29.0	N/A	N/A	15.0	100.0	109.0	N/A	N/A	15.0	100.0	13
	0 (-20)	М	N/A	N/A	4.6	12.5	8.8	N/A	N/A	4.6	30.5	33.2	N/A	N/A	4.6	30.5	3
120000		Ft.	N/A	N/A	15.0	20.0	7.0	N/A	N/A	15.0	94.0	71.0	N/A	N/A	15.0	114.0	8
	-20 (-30)	M	N/A	N/A	4.6	6.1	2.1	N/A	N/A	4.6	28.7	21.6	N/A	N/A	4.6	34.7	20
		Ft.	N/A	N/A	15.0	7.0	0.0	N/A	N/A	15.0	69.0	48.0	N/A	N/A	15.0	85.0	62
	-40 (-40)	M	N/A	N/A	4.6	2.1	0.0	N/A	N/A	4.6	21.0	14.6	N/A	N/A	4.6	25.9	18

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* Not all families have these models. * 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 1 or 3.

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.



986TB

A10490

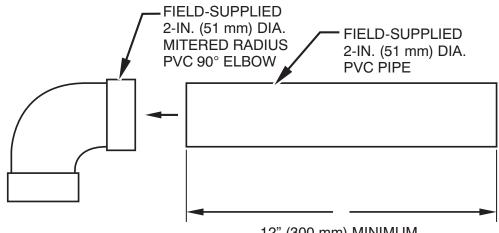
MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS

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)		

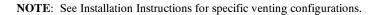
* Recommended

** Consult your local building codes

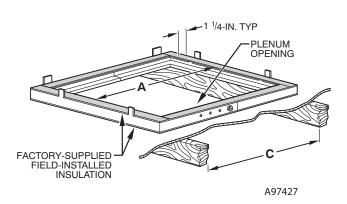
COMBUSTION-AIR PIPE FOR NON-DIRECT (1-PIPE) VENT APPLICATION

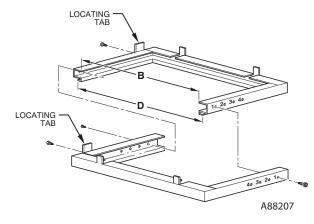


12" (300 mm) MINIMUM



DOWNFLOW SUBBASE





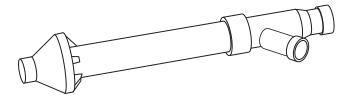
Assembled

Disassembled

DIMENSIONS (IN. / MM)								
FURNACE CASING WIDTH	FURNACE IN DOWNFLOW	PLENUM OPENING*		FLOOR OPENING		HOLE NO. FOR		
	APPLICATION	Α	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		

A93086

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



Concentric Vent Kit

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

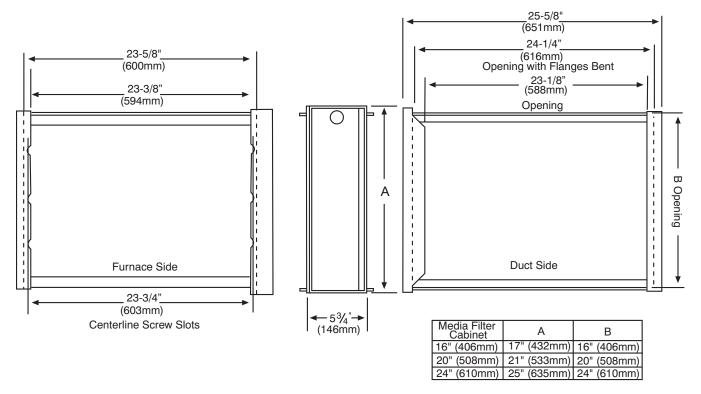


Downflow Subbase

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

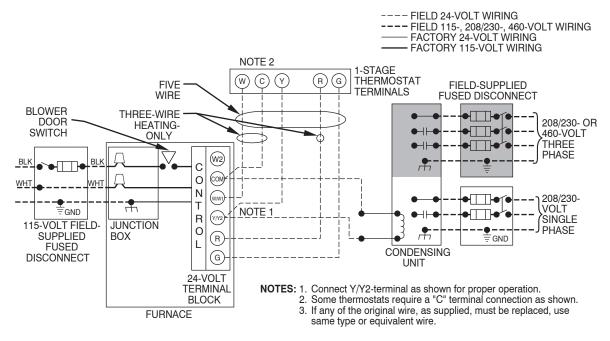
MEDIA FILTER CABINET

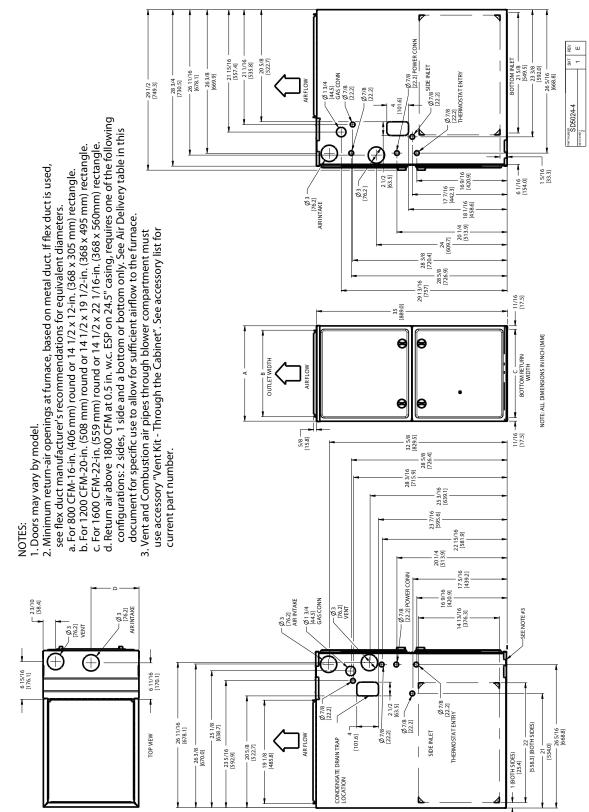


NOTE: Media cabinet is matched to the bottom opening on furnace. May also be used for side return.

A12428

TYPICAL WIRING SCHEMATIC





DIMENSIONAL DRAWING

986TB	Α	В	С	D	SHIP WT.	
FURNACE SIZE	CABINET WIDTH	OUTLET WIDTH	BOTTOM INLET WIDTH	AIR INTAKE	LB (KG)	
42060	17-1/2 (445)	15-7/8 (403)	16 (406)	8-3/4 (222)	140.0 (63.0)	
42080	17 = 1/2 (443)			8-3/4 (222)	150.0 (67.5)	
60080	01 (500)	19-3/8 (492)	19–1/2 (495)	10–1/2 (267)	154.5 (70.2)	
66100	21 (533)				164.5 (74.0)	
66120	24-1/2 (622)	22-7/8 (581)	23 (584)	12-1/4 (311)	188.5 (84.8)	

General

System Description

Furnish a

4-way multipoise two-stage 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-type filters. Filter shall be in. (mm) X in. (mm). An accessory highly efficient Media Filter is available as an option. Media Filter.

Casing

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

Draft Inducer motor shall be two-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 separate blower speeds for low heat, high heat, 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 Evolution Control or TP-PRH edge® is selected as the thermostat.

Operating Characteristics

Heating	capacity	shall	be			Btuh	input;
Btuh output capacity.							
Fuel Gas	Efficienc	y shall	be _		AFUE.		

Air delivery shall be _____ cfm minimum at 0.50 in. W.C. external static pressure.

Dimensions shall be: depth_____in. (mm); width _in. (mm); height_____in. (mm) (casing only). Height shall be in. (mm) with A/C coil and in. (mm) overall with plenum.

Electrical Requirements

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

Special Features

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

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