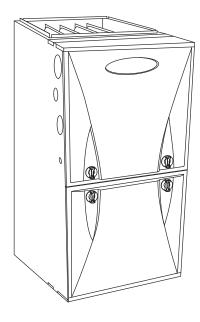
59TP6A Performance Two-Stage, Variable Speed 4-Way Multipoise **Condensing Gas Furnace** Series 1



# **Product Data**



The 59TP6A Multipoise Variable-Speed Condensing Gas Furnace features the two-stage Performance™ System. The Comfort Heat® technology two-stage gas valve is at the heart of the comfort provided by this furnace, along with the variable-speed ECM blower motor, and two-speed inducer motor. With an Annual Fuel Utilization Efficiency (AFUE) up to 96.5%, the Performance™ Series two-stage gas furnace provides exceptional savings when compared to standard gas furnaces. This Performance Gas Furnace also features 4-way multipoise installation flexibility, and is available in eight model sizes. The 59TP6A can be vented for direct vent/two-pipe, ventilated combustion air, or single-pipe applications. All units meet California Air Quality Management District emission requirements. All sizes are design certified in Canada.

## STANDARD FEATURES

• 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.
- Ideal height 35" (889 mm) cabinet: short enough for taller coils, but still allows enough room for service.
- Silicon Nitride Perfect Light<sup>™</sup> Hot Surface Igniter.
- SmartEvap<sup>™</sup> technology helps control humidity levels in the home when used with a compatible humidity control system.
- ComfortFan<sup>™</sup> technology allows control of continuous fan speed from a compatible thermostat.
- 4-way multipoise design for upflow, downflow or horizontal installations, with unique vent elbow and optional throughthe-cabinet downflow venting capability.
- Full-featured variable-speed blower motor, two-speed inducer motor, and two-stage gas valve.
- · Self-diagnostics.
- · 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.

















SAP ORDERING	D	CASIN IMENSI (IN.)		RATED HE	EATING O (BTUH)	UTPUT†	HEA	TING AIRF	LOW	COOLING CFM @ 0.5	MOTOR HP - SPEED
NO.	н	D	w	High	Low	AFUE	CFM‡ (High Heating	CFM (Low Heating)	High Heating ESP (in. W.C.)	ESP (in. W.C.)	(VARIABLE SPEED)
59TP6A040E141110	35	29.5	14.2	39,000	25,000	96.5%	815	660	0.10	905	1/2
59TP6A040E171112	35	29.5	17.5	39,000	25,000	96.0%	860	660	0.10	1065	1/2
59TP6A060E141112	35	29.5	14.2	58,000	38,000	95.0%	1120	910	0.12	1065	1/2
59TP6A060E171114	35	29.5	17.5	58,000	38,000	96.3%	1135	860	0.12	1475	3/4
59TP6A080E171116	35	29.5	17.5	78,000	50,000	96.2%	1505	1160	0.15	1610	3/4
59TP6A080E211120	35	29.5	21.0	78,000	51,000	96.5%	1555	1200	0.15	2005	1
59TP6A100E211120	35	29.5	21.0	97,000	63,000	96.1%	1865	1435	0.20	2005	1
59TP6A120E241122	35	29.5	24.0	117,000	76,000	96.5%	2375	1675	0.20	2115	1

<sup>†</sup>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**

Comfort Heat Technology® — This feature with Adaptive Control is a proprietary function that promotes homeowner comfort through two stages of heating. This Carrier 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.

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 blower off delay 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! 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, 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.

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, Variable Speed Motors** — Our variable-speed ECM (Electronically Commutated Motor) optimizes comfort levels in the home year round; features such as passive/active dehumidification, ramping profiles, and quiet operation. They can provide cooling match enhancements to increase the effective SEER of select Carrier air conditioner or heat pump system. This motor does not report back RPM and static pressure to enable static pressure reporting to the UI or zoning system, which is required for zoning, active filter monitoring and system static pressure reporting.

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.

**Optional Media Filter Cabinet** — Enhanced indoor air quality in the home is made easier with our media filter cabinet 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 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 heat exchanger section of the casing minimizes heat loss. The acoustical insulation in the blower compartment reduces air and motor noise for quiet operation.

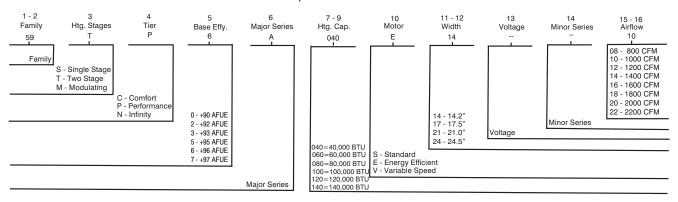
**Monoport Burners** — The burners are specially designed and finely tuned for smooth, quiet combustion and economical operation.

**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.

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.

## MODEL NUMBER NOMENCLATURE

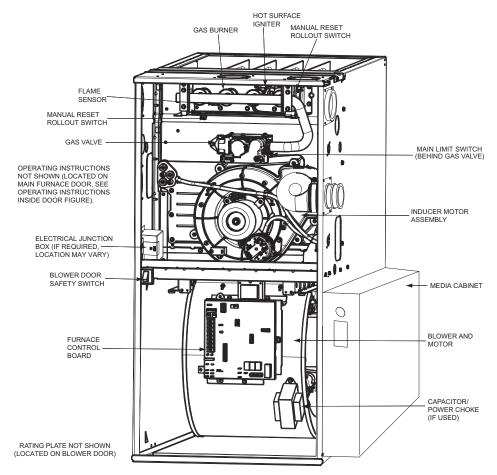
#### **Example of Model Number**



Not all familes have these models.

A14368

#### **FURNACE COMPONENTS**



REPRESENTATIVE DRAWING ONLY, SOME MODELS MAY VARY IN APPEARANCE.

A11408

## **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 Capacity and Efficiency			040-10	040-12	060-12	060-14	080-16	080-20	100-20	120-22
Hiah	Heat	(BTUH)	40,000	40,000	60,000	60,000	80,000	80,000	100,000	120,000
Input Low	Heat	(BTUH)	26,000	26,000	39,000	39,000	52,000	52,000	65,000	78,000
High	Heat	(BTUH)	39,000	39,000	58,000	58,000	78,000	78,000	97,000	117,000
Output	Heat	(BTUH)	25,000	25,000	38,000	38,000	50,000	51,000	63,000	76,000
1		Lligh Llogt	40 - 70	40 - 70	40 - 70	40 - 70	40 - 70	40 - 70	40 - 70	40 - 70
Certified Temperature		High Heat	(22 - 39)	(22 - 39)	(22 - 39)	(22 - 39)	(22 - 39)	(22 - 39)	(22 - 39)	(22 - 39)
Rise Range °F (°C)		Low Heat	30 - 60	30 - 60	30 - 60	30 - 60	30 - 60	30 - 60	30 - 60	30 - 60
		Low Heat	(17 - 33)	(17 - 33)	(17 - 33)	(17 - 33)	(17 - 33)	(17 - 33)	(17 - 33)	(17 - 33)
Airflow Capacity and Blower Data	1		040-10	040-12	060-12	060-14	080-16	080-20	100-20	120-22
Rated External Static		Heating	0.10	0.10	0.12	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	0.5	0.5	0.5
Airflow Delivery		High Heat	815	860	1120	1135	1505	1555	1865	2375
@ Rated ESP (CFM)		Low Heat	660	660	910	860	1160	1200	1435	1675
@ : tatea = 2: (0:)		Cooling	905	1065	1065	1475	1610	2005	2005	2115
Cooling Capacity (tons)		400 CFM/ton	2	2.5	2.5	3.5	4	5	5	5
@ 400, 350 CFM/ton		350 CFM/ton	2.5	3	3	4	4.5	5.5	5.5	6
Direct-Drive Motor Type					Electronica	,		otor (ECM	<u> </u>	
Direct-Drive Motor HP			1/2	1/2	1/2	3/4	3/4	1	1	1
Motor Full Load Amps			6.8	6.8	6.8	8.4	8.4	10.9	10.9	10.9
RPM Range						600 -				
Speed Selections						Variable	(PWM)			
Blower Wheel Dia x Width		in.	11 x 7	11 x 8	11 x 7	11 x 8	11 x 8	11 x 10	11 x 10	11 x 11
Air Filtration System					C	ptional Me				
All I littation System						Field Supp	olied Filter			
,										
Filter Used for Certified Watt Data						KGAWF1	1506UFR			
Filter Used for Certified Watt Data						_				
Filter Used for Certified Watt Data  Electrical Data			040-10	040-12	060-12	060-14	080-16	080-20	100-20	120-22
Filter Used for Certified Watt Data  Electrical Data Input Voltage		Volts-Hertz-Phase	040-10	040-12	060-12	<b>060-14</b> 115-	<b>080-16</b> 60-1		100-20	120-22
Filter Used for Certified Watt Data  Electrical Data Input Voltage Operating Voltage Range		Min-Max				<b>060-14</b> 115- 104-	<b>080-16</b> 60-1 -127	080-20		
Filter Used for Certified Watt Data  Electrical Data Input Voltage Operating Voltage Range Maximum Input Amps		Min-Max Amps	7.5	7.5	7.6	060-14 115- 104- 9.2	<b>080-16</b> 60-1 -127 9.2	<b>080-20</b>	11.8	11.8
Filter Used for Certified Watt Data  Electrical Data Input Voltage Operating Voltage Range Maximum Input Amps Unit Ampacity		Min-Max Amps Amps	7.5 10.3	7.5 10.2	7.6 10.3	060-14 115- 104- 9.2 12.4	080-16 60-1 -127 9.2 12.4	11.7 15.5	11.8 15.6	11.8 15.6
Filter Used for Certified Watt Data  Electrical Data Input Voltage Operating Voltage Range Maximum Input Amps Unit Ampacity Minimum Wire Size		Min-Max Amps Amps AWG	7.5 10.3 14	7.5 10.2 14	7.6 10.3 14	9.2 12.4 14	9.2 12.4 14	11.7 15.5 12	11.8 15.6 12	11.8 15.6 12
Filter Used for Certified Watt Data  Electrical Data Input Voltage Operating Voltage Range Maximum Input Amps Unit Ampacity Minimum Wire Size Maximum Wire Length		Min-Max Amps Amps AWG Feet	7.5 10.3 14 36	7.5 10.2 14 36	7.6 10.3 14 36	9.2 12.4 14 29	9.2 12.4 14 29	11.7 15.5 12 37	11.8 15.6 12 36	11.8 15.6 12 36
Filter Used for Certified Watt Data  Electrical Data Input Voltage Operating Voltage Range Maximum Input Amps Unit Ampacity Minimum Wire Size Maximum Wire Length @ Minimum Wire Size		Min-Max Amps Amps AWG	7.5 10.3 14	7.5 10.2 14	7.6 10.3 14	9.2 12.4 14	9.2 12.4 14	11.7 15.5 12	11.8 15.6 12	11.8 15.6 12
Filter Used for Certified Watt Data  Electrical Data Input Voltage Operating Voltage Range Maximum Input Amps Unit Ampacity Minimum Wire Size Maximum Wire Length @ Minimum Wire Size Maximum Fuse/Ckt Bkr		Min-Max Amps Amps AWG Feet (M)	7.5 10.3 14 36 (11.0)	7.5 10.2 14 36 (11.0)	7.6 10.3 14 36 (11.0)	9.2 12.4 14 29 (8.8)	9.2 12.4 14 29	11.7 15.5 12 37 (11.3)	11.8 15.6 12 36 (11.0)	11.8 15.6 12 36 (11.0)
Filter Used for Certified Watt Data  Electrical Data Input Voltage Operating Voltage Range Maximum Input Amps Unit Ampacity Minimum Wire Size Maximum Wire Length @ Minimum Wire Size Maximum Fuse/Ckt Bkr (Time-Delay Type Recommended)		Min-Max Amps Amps AWG Feet	7.5 10.3 14 36	7.5 10.2 14 36	7.6 10.3 14 36	9.2 12.4 14 29 (8.8)	9.2 12.4 14 29 (8.8)	11.7 15.5 12 37	11.8 15.6 12 36	11.8 15.6 12 36
Filter Used for Certified Watt Data  Electrical Data Input Voltage Operating Voltage Range Maximum Input Amps Unit Ampacity Minimum Wire Size Maximum Wire Length @ Minimum Wire Size Maximum Fuse/Ckt Bkr (Time-Delay Type Recommended) Transformer Capacity (24vac output	t)	Min-Max Amps Amps AWG Feet (M) Amps	7.5 10.3 14 36 (11.0)	7.5 10.2 14 36 (11.0)	7.6 10.3 14 36 (11.0)	9.2 12.4 14 29 (8.8) 15	9.2 12.4 14 29 (8.8) 15	11.7 15.5 12 37 (11.3)	11.8 15.6 12 36 (11.0)	11.8 15.6 12 36 (11.0)
Filter Used for Certified Watt Data  Electrical Data Input Voltage Operating Voltage Range Maximum Input Amps Unit Ampacity Minimum Wire Size Maximum Wire Length @ Minimum Wire Size Maximum Fuse/Ckt Bkr (Time-Delay Type Recommended) Transformer Capacity (24vac output External Control Power	t)	Min-Max Amps Amps AWG Feet (M) Amps	7.5 10.3 14 36 (11.0)	7.5 10.2 14 36 (11.0)	7.6 10.3 14 36 (11.0)	9.2 12.4 14 29 (8.8) 15	9.2 12.4 14 29 (8.8) 15	11.7 15.5 12 37 (11.3)	11.8 15.6 12 36 (11.0)	11.8 15.6 12 36 (11.0)
Filter Used for Certified Watt Data  Electrical Data Input Voltage Operating Voltage Range Maximum Input Amps Unit Ampacity Minimum Wire Size Maximum Wire Length @ Minimum Wire Size Maximum Fuse/Ckt Bkr (Time-Delay Type Recommended) Transformer Capacity (24vac output	t)	Min-Max Amps Amps AWG Feet (M) Amps	7.5 10.3 14 36 (11.0)	7.5 10.2 14 36 (11.0)	7.6 10.3 14 36 (11.0)	9.2 12.4 14 29 (8.8) 15	9.2 12.4 14 29 (8.8) 15	11.7 15.5 12 37 (11.3)	11.8 15.6 12 36 (11.0)	11.8 15.6 12 36 (11.0)
Filter Used for Certified Watt Data  Electrical Data Input Voltage Operating Voltage Range Maximum Input Amps Unit Ampacity Minimum Wire Size Maximum Wire Length @ Minimum Wire Size Maximum Fuse/Ckt Bkr (Time-Delay Type Recommended) Transformer Capacity (24vac output External Control Power Available	t)	Min-Max Amps Amps AWG Feet (M) Amps	7.5 10.3 14 36 (11.0)	7.5 10.2 14 36 (11.0)	7.6 10.3 14 36 (11.0)	115- 104- 9.2 12.4 14 29 (8.8) 15 40 24.3 34.6	080-16   60-1   127   9.2   12.4   14   29   (8.8)   15   VA   3 VA	11.7 15.5 12 37 (11.3)	11.8 15.6 12 36 (11.0) 20	11.8 15.6 12 36 (11.0) 20
Filter Used for Certified Watt Data  Electrical Data Input Voltage Operating Voltage Range Maximum Input Amps Unit Ampacity Minimum Wire Size Maximum Wire Length @ Minimum Wire Size Maximum Fuse/Ckt Bkr (Time-Delay Type Recommended) Transformer Capacity (24vac output External Control Power Available  Controls	t)	Min-Max Amps Amps AWG Feet (M) Amps	7.5 10.3 14 36 (11.0)	7.5 10.2 14 36 (11.0)	7.6 10.3 14 36 (11.0)	9.2 12.4 14 29 (8.8) 15 40 24.3 34.6	9.2 12.4 14 29 (8.8) 15 VA 3 VA	11.7 15.5 12 37 (11.3)	11.8 15.6 12 36 (11.0)	11.8 15.6 12 36 (11.0)
Filter Used for Certified Watt Data  Electrical Data Input Voltage Operating Voltage Range Maximum Input Amps Unit Ampacity Minimum Wire Size Maximum Wire Length @ Minimum Wire Size Maximum Fuse/Ckt Bkr (Time-Delay Type Recommended) Transformer Capacity (24vac output External Control Power Available  Controls Gas Connection Size	t)	Min-Max Amps Amps AWG Feet (M) Amps	7.5 10.3 14 36 (11.0) 15	7.5 10.2 14 36 (11.0) 15	7.6 10.3 14 36 (11.0) 15	115- 104- 9.2 12.4 14 29 (8.8) 15 40 24.3 34.6	080-16   60-1   127   9.2   12.4   14   29   (8.8)   15   VA   5 VA   080-16   NPT	11.7 15.5 12 37 (11.3) 20	11.8 15.6 12 36 (11.0) 20	11.8 15.6 12 36 (11.0) 20
Filter Used for Certified Watt Data  Electrical Data Input Voltage Operating Voltage Range Maximum Input Amps Unit Ampacity Minimum Wire Size Maximum Wire Length @ Minimum Wire Size Maximum Fuse/Ckt Bkr (Time-Delay Type Recommended) Transformer Capacity (24vac output External Control Power Available  Controls Gas Connection Size Burners (Monoport)	t)	Min-Max Amps Amps AWG Feet (M) Amps Heating Cooling	7.5 10.3 14 36 (11.0)	7.5 10.2 14 36 (11.0)	7.6 10.3 14 36 (11.0)	115- 104- 9.2 12.4 14 29 (8.8) 15 40 24.3 34.6	080-16   60-1   127   9.2   12.4   14   29   (8.8)   15   VA   3 VA   5 VA   NPT   4	11.7 15.5 12 37 (11.3)	11.8 15.6 12 36 (11.0) 20	11.8 15.6 12 36 (11.0) 20
Filter Used for Certified Watt Data  Electrical Data Input Voltage Operating Voltage Range Maximum Input Amps Unit Ampacity Minimum Wire Size Maximum Wire Length @ Minimum Wire Size Maximum Fuse/Ckt Bkr (Time-Delay Type Recommended) Transformer Capacity (24vac output External Control Power Available  Controls Gas Connection Size Burners (Monoport) Gas Valve (Redundant)		Min-Max Amps Amps AWG Feet (M) Amps Heating Cooling	7.5 10.3 14 36 (11.0) 15	7.5 10.2 14 36 (11.0) 15	7.6 10.3 14 36 (11.0) 15	115- 104- 9.2 12.4 14 29 (8.8) 15 40 24.3 34.6 060-14 1/2" - 3 White F	080-16   60-1   127   9.2   12.4   14   29   (8.8)   15   VA   5 VA   5 VA   NPT   4   Rodgers	11.7 15.5 12 37 (11.3) 20	11.8 15.6 12 36 (11.0) 20	11.8 15.6 12 36 (11.0) 20
Filter Used for Certified Watt Data  Electrical Data Input Voltage Operating Voltage Range Maximum Input Amps Unit Ampacity Minimum Wire Size Maximum Wire Length @ Minimum Wire Size Maximum Fuse/Ckt Bkr (Time-Delay Type Recommended) Transformer Capacity (24vac output External Control Power Available  Controls Gas Connection Size Burners (Monoport) Gas Valve (Redundant)	ı Inlet G	Min-Max Amps Amps AWG Feet (M) Amps Heating Cooling  Manufacturer as pressure (in. wc)	7.5 10.3 14 36 (11.0) 15	7.5 10.2 14 36 (11.0) 15	7.6 10.3 14 36 (11.0) 15	115- 104- 9.2 12.4 14 29 (8.8) 15 40 24.3 34.6 060-14 1/2" - 3 White F	080-16   60-1   127   9.2   12.4   14   29   (8.8)   15   VA   5 VA   6 VA   NPT   4   Rodgers   5	11.7 15.5 12 37 (11.3) 20	11.8 15.6 12 36 (11.0) 20	11.8 15.6 12 36 (11.0) 20
Filter Used for Certified Watt Data  Electrical Data Input Voltage Operating Voltage Range Maximum Input Amps Unit Ampacity Minimum Wire Size Maximum Wire Length @ Minimum Wire Size Maximum Fuse/Ckt Bkr (Time-Delay Type Recommended) Transformer Capacity (24vac output External Control Power Available  Controls Gas Connection Size Burners (Monoport) Gas Valve (Redundant)  Minimum Maximum	ı Inlet G	Min-Max Amps Amps AWG Feet (M) Amps Heating Cooling	7.5 10.3 14 36 (11.0) 15	7.5 10.2 14 36 (11.0) 15	7.6 10.3 14 36 (11.0) 15	115- 104- 9.2 12.4 14 29 (8.8) 15 40 24.3 34.6 060-14 1/2" - 3 White F	080-16   60-1   127   9.2   12.4   14   29   (8.8)   15   VA   3 VA   5 VA	11.7 15.5 12 37 (11.3) 20	11.8 15.6 12 36 (11.0) 20	11.8 15.6 12 36 (11.0) 20
Filter Used for Certified Watt Data  Electrical Data Input Voltage Operating Voltage Range Maximum Input Amps Unit Ampacity Minimum Wire Size Maximum Wire Length @ Minimum Wire Size Maximum Fuse/Ckt Bkr (Time-Delay Type Recommended) Transformer Capacity (24vac output External Control Power Available  Controls Gas Connection Size Burners (Monoport) Gas Valve (Redundant)  Minimum Maximum Manufactured (Mobile) Home Kit	ı Inlet G	Min-Max Amps Amps AWG Feet (M) Amps Heating Cooling  Manufacturer as pressure (in. wc)	7.5 10.3 14 36 (11.0) 15	7.5 10.2 14 36 (11.0) 15	7.6 10.3 14 36 (11.0) 15	060-14 115- 104- 9.2 12.4 14 29 (8.8) 15 40 24.3 34.6  060-14 1/2" - 3 White F	080-16   60-1   127   9.2   12.4   14   29   (8.8)   15   VA   3 VA   5 VA   NPT   4   4   4   4   4   6   5   5   6   6   6   for MH u.	11.7 15.5 12 37 (11.3) 20	11.8 15.6 12 36 (11.0) 20	11.8 15.6 12 36 (11.0) 20
Filter Used for Certified Watt Data  Electrical Data Input Voltage Operating Voltage Range Maximum Input Amps Unit Ampacity Minimum Wire Size Maximum Wire Length @ Minimum Wire Size Maximum Fuse/Ckt Bkr (Time-Delay Type Recommended) Transformer Capacity (24vac output External Control Power Available  Controls Gas Connection Size Burners (Monoport) Gas Valve (Redundant)  Minimum Maximum Manufactured (Mobile) Home Kit Ignition Device	ı Inlet G	Min-Max Amps Amps AWG Feet (M) Amps Heating Cooling  Manufacturer as pressure (in. wc)	7.5 10.3 14 36 (11.0) 15	7.5 10.2 14 36 (11.0) 15	7.6 10.3 14 36 (11.0) 15	115- 104- 9.2 12.4 14 29 (8.8) 15 40 24.3 34.6  060-14 1/2" - 3 White F	080-16   60-1   127   9.2   12.4   14   29   (8.8)   15   VA   5 VA	080-20  11.7 15.5 12 37 (11.3) 20  080-20 4	11.8 15.6 12 36 (11.0) 20	11.8 15.6 12 36 (11.0) 20
Filter Used for Certified Watt Data  Electrical Data Input Voltage Operating Voltage Range Maximum Input Amps Unit Ampacity Minimum Wire Size Maximum Wire Length @ Minimum Wire Size Maximum Fuse/Ckt Bkr (Time-Delay Type Recommended) Transformer Capacity (24vac output External Control Power Available  Controls Gas Connection Size Burners (Monoport) Gas Valve (Redundant)  Minimum Maximum Manufactured (Mobile) Home Kit Ignition Device Limit Control	Inlet G	Min-Max Amps Amps AWG Feet (M) Amps  Heating Cooling  Manufacturer as pressure (in. wc)	7.5 10.3 14 36 (11.0) 15	7.5 10.2 14 36 (11.0) 15	7.6 10.3 14 36 (11.0) 15	115- 104- 9.2 12.4 14 29 (8.8) 15 40 24.3 34.6  060-14 1/2" - 3 White F 4, 13 of approved Silicon 180	080-16   60-1   127   9.2   12.4   14   29   (8.8)   15   VA   3 VA   5 VA	080-20  11.7 15.5 12 37 (11.3) 20  080-20  4	11.8 15.6 12 36 (11.0) 20	11.8 15.6 12 36 (11.0) 20
Filter Used for Certified Watt Data  Electrical Data Input Voltage Operating Voltage Range Maximum Input Amps Unit Ampacity Minimum Wire Size Maximum Wire Length @ Minimum Wire Size Maximum Fuse/Ckt Bkr (Time-Delay Type Recommended) Transformer Capacity (24vac output External Control Power Available  Controls Gas Connection Size Burners (Monoport) Gas Valve (Redundant)  Minimum Maximum Manufactured (Mobile) Home Kit Ignition Device Limit Control Heating Blower Control (Heating Of	Inlet G	Min-Max Amps Amps AWG Feet (M) Amps  Heating Cooling  Manufacturer as pressure (in. wc) as pressure (in. wc)	7.5 10.3 14 36 (11.0) 15	7.5 10.2 14 36 (11.0) 15	7.6 10.3 14 36 (11.0) 15	060-14 115- 104- 9.2 12.4 14 29 (8.8) 15 40 24.3 34.6  060-14 1/2" - 3 White F 4.3 ot approved Silicon 180 le: 90, 120	080-16   60-1   127   9.2   12.4   14   29   (8.8)   15   VA   5 VA   5 VA	080-20  11.7 15.5 12 37 (11.3) 20  080-20  4	11.8 15.6 12 36 (11.0) 20	11.8 15.6 12 36 (11.0) 20
Filter Used for Certified Watt Data  Electrical Data Input Voltage Operating Voltage Range Maximum Input Amps Unit Ampacity Minimum Wire Size Maximum Wire Length @ Minimum Wire Size Maximum Fuse/Ckt Bkr (Time-Delay Type Recommended) Transformer Capacity (24vac output External Control Power Available  Controls Gas Connection Size Burners (Monoport) Gas Valve (Redundant)  Minimum Maximum Manufactured (Mobile) Home Kit Ignition Device Limit Control Heating Blower Control (Heating Of Cooling Blower Control (Time Delay	Inlet G	Min-Max Amps Amps AWG Feet (M) Amps  Heating Cooling  Manufacturer as pressure (in. wc) as pressure (in. wc)	7.5 10.3 14 36 (11.0) 15	7.5 10.2 14 36 (11.0) 15	7.6 10.3 14 36 (11.0) 15	060-14 115- 104- 9.2 12.4 14 29 (8.8) 15 40 24.3 34.6  060-14 1/2" - 3 White F 4, 13 of approved Silicon 180 le: 90, 120 90 see	080-16   60-1   127   9.2   12.4   14   29   (8.8)   15   VA   5 VA   6 VA   NPT   4   4   4   4   4   6   5   5   6   6   6   for MH u. Nitride   170   150, 180   conds	080-20  11.7 15.5 12 37 (11.3) 20  080-20  4	11.8 15.6 12 36 (11.0) 20	11.8 15.6 12 36 (11.0) 20
Filter Used for Certified Watt Data  Electrical Data Input Voltage Operating Voltage Range Maximum Input Amps Unit Ampacity Minimum Wire Size Maximum Wire Length @ Minimum Wire Size Maximum Fuse/Ckt Bkr (Time-Delay Type Recommended) Transformer Capacity (24vac output External Control Power Available  Controls Gas Connection Size Burners (Monoport) Gas Valve (Redundant)  Minimum Maximum Manufactured (Mobile) Home Kit Ignition Device Limit Control Heating Blower Control (Heating Of Cooling Blower Control (Time Delay Communication System	Inlet G	Min-Max Amps Amps AWG Feet (M) Amps  Heating Cooling  Manufacturer as pressure (in. wc) as pressure (in. wc)	7.5 10.3 14 36 (11.0) 15	7.5 10.2 14 36 (11.0) 15	7.6 10.3 14 36 (11.0) 15 <b>060-12</b> 3	060-14 115- 104- 9.2 12.4 14 29 (8.8) 15 40 24.3 34.6  060-14 1/2" - 3 White F 4.3 ot approved Silicon 180 le: 90, 120 90 see	080-16   60-1   127   9.2   12.4   14   29   (8.8)   15   VA   5 VA   S VA   O80-16   NPT   4   4   4   4   4   5   5   5   6   6   for MH u. Nitride   170   150, 180   conds one	080-20  11.7 15.5 12 37 (11.3) 20  080-20  4	11.8 15.6 12 36 (11.0) 20 100-20	11.8 15.6 12 36 (11.0) 20
Filter Used for Certified Watt Data  Electrical Data Input Voltage Operating Voltage Range Maximum Input Amps Unit Ampacity Minimum Wire Size Maximum Wire Length @ Minimum Wire Size Maximum Fuse/Ckt Bkr (Time-Delay Type Recommended) Transformer Capacity (24vac output External Control Power Available  Controls Gas Connection Size Burners (Monoport) Gas Valve (Redundant)  Minimum Maximum Manufactured (Mobile) Home Kit Ignition Device Limit Control Heating Blower Control (Heating Of Cooling Blower Control (Time Delay	Inlet G	Min-Max Amps Amps AWG Feet (M) Amps  Heating Cooling  Manufacturer as pressure (in. wc) as pressure (in. wc)	7.5 10.3 14 36 (11.0) 15	7.5 10.2 14 36 (11.0) 15	7.6 10.3 14 36 (11.0) 15	060-14 115- 104- 9.2 12.4 14 29 (8.8) 15 40 24.3 34.6  060-14 1/2" - 3 White F 4.3 st approved Silicon 180 le: 90, 120 90 see	080-16   60-1   127   9.2   12.4   14   29   (8.8)   15   VA   5 VA   5 VA	080-20  11.7 15.5 12 37 (11.3) 20  080-20  4	11.8 15.6 12 36 (11.0) 20 100-20 5	11.8 15.6 12 36 (11.0) 20

<sup>\*</sup> See Accessory List for part numbers available.

## **ACCESSORIES**

West Terminal - Concentric - 2" (15 mm)		ACCESS		-						
Vient Nat   Terroriagh   Concentric 2**   Sir mm)	DESCRIPTION	PART NUMBER	040-10	040-12	060-12	060-14	080-16	080-20	100-20	120-22
Vant Terminal - Concentric - 2" (6" imm)										
Vient Terminal Screek 1-2" (61 mm)   KGAVT001BRA			•	•	•	•	•	•	•	•
Vant Terminal Bracket - 2" (6" mm)   KGANT/016BRA	, ,									
Value   Terrinal Bardoute: 2* (c. in mm)	,					See Venti	ing Tables			
Vant Kir - Rubber Coupling	, ,									
Condenset Drainage Accessories	,									
Finesce Problect Kit - Heat Tape		KGAAC0101RVC				See Venti	ing Tables			
CPVC Drain Adapters - 1/2" CPVC to 3/4" PVC   NGAAAD0110PVC   NAME   N		1/041/75101050	1							
Horizontal Trap Grommet - Direct Vent					1					•
Condensate Neutralizer Kit			•	•	•	_		•	•	•
External Trap Kit	•									•
Ductwork Adapter Accessories										•
Furnace Base Rt for Combustible Floors		NUALIOZOILIN								
Coil Adapter Kits – No Offset  KGADA0101ALL  Coil Adapter Kits – Single Offset  KGADA0201ALL  KGADA0301ALL  KGADA0301B17  Cat's 25' IAQ Devices  KGADA0101BCC  20''x25' IAQ Devices  AGACONTOR KIT - 412 (Nat Gas)  LHS2DB201VSP  LHS2		KGASB0201ALL	•	•	•	•	•	•	•	•
Coil Adapter Kits — Single Offset Coil Adapter Kits — Double Offset KGADA0201ALL Return Air Base (Upflow Applications) 14.0—in. wide Return Air Base (Upflow Applications) 17.5—in. wide Return Air Base (Upflow Applications) 17.5—in. wide Return Air Base (Upflow Applications) 17.5—in. wide Return Air Base (Upflow Applications) 21.5—in. wide Return Air Base (Upflow Applications) 21.					1					•
Coll Adapter Kits - Double Offset   KGADA0301ALL										•
Raturn Air Base (Upflow Applications) 14.0—in. wide Roturn Air Base (Upflow Applications) 17.5—in. wide Roturn Air Base (Upflow Applications) 21.5—in. wide Roturn Air Base (Upflow Applications) 21.5—in. wide Roturn Air Base (Upflow Applications) 21.5—in. wide Roturn Air Base (Upflow Applications) 24.5—in. wide Roturn Air Base (U	Coil Adapter Kits – Double Offset	KGADA0301ALL	•	•	•	•	•	•	•	•
Return Air Base (Upflow Applications) 17.5 – in. wide Return Air Base (Upflow Applications) 21.0 – in. wide Return Air Base (Upflow Applications) 21.0 – in. wide Return Air Base (Upflow Applications) 24.5 – in. wide Return Air Base (Upflow Applications) 24.5 – in. wide Return Air Base (Upflow Applications) 24.5 – in. wide Return Air Base (Upflow Applications) 24.5 – in. wide Return Roberto Duck Adapters 20.0 – in. IAQ to 16 in. Side Return Roberto Duck Adapters 20.0 – in. IAQ to 16 in. Side Return Roberto Duck Adapters 24.0 – in. IAQ to 16 in. Side Return Roberto Duck Adapters 24.0 – in. IAQ to 16 in. Side Return Roberto Duck Adapters 24.0 – in. IAQ to 16 in. Side Return Roberto Duck Adapters 24.0 – in. IAQ to 16 in. Side Return Roberto Duck Adapters 24.0 – in. IAQ to 16 in. Side Return Roberto Duck Adapters 24.0 – in. IAQ to 16 in. Side Return Roberto Duck Adapters 24.0 – in. IAQ to 16 in. Side Return Roberto Duck Adapters 24.0 – in. IAQ to 16 in. Side Return Roberto Duck Adapters 24.0 – in. IAQ to 16 in. Side Return Roberto Duck Adapters 24.0 – in. IAQ to 16 in. Side Roberto Duck Adapters 24.0 – in. IAQ to 16 in. Side Roberto Duck Adapters 24.0 – in. IAQ to 16 in. Side Roberto Duck Adapters 24.0 – in. IAQ to 16 in. Side Roberto Duck Adapters 24.0 – in. IAQ to 16 in. Side Roberto Duck Adapters 24.0 – in. IAQ to 16 in. Side Roberto Duck Adapters 24.0 – in. IAQ to 16 in. Side Roberto Duck Adapters 24.0 – in. IAQ to 16 in. Side Roberto Duck Adapters 24.0 – in. IAQ to 16 in. IAQ		KGARP0301B14	•	•						
Return Air Base (Upflow Applications) 24.5—in. wide RAD Device Duck Adapters 20.0—in. IAQ to 16 in. Side Return  AID Device Duck Adapters 24.0—in. IAQ to 16 in. Side Return  Gas Conversion Ric - Nat to L.P; Var-speed Products Gas Conversion Ric - Nat Gas) L.H32DB3020 L.H32DB3020 L.H32DB3030 L.H32DB3030 L.H32DB3060 L.H32DB3070 L.H32D	Return Air Base (Upflow Applications) 17.5-in. wide	KGARP0301B17			•	•	•			
IAQ Device Duct Adapters 20.0 - in. IAQ to 16 in. Side   Return		KGARP0301B21						•	•	
Return	Return Air Base (Upflow Applications) 24.5-in. wide	KGARP0301B24								•
Redum   AGD Device Ducf Adapters 24.0 - in. IAQ to 16 in. Side   Retum   AGD Device Ducf Adapters 24.0 - in. IAQ to 16 in. Side   Retum   AGD Devices   Redum   AGD Devices		KGAAD0101MEC				20"v25" 14	O Devices	2		-
Return		RGAADOTOTIVILO				20 X23 IF	Q Devices	•		
Gas Conversion Accessories Gas Conversion Kir. Natto LP: Var-speed Products Gas Conversion Kir. LP to Nat. Var-speed Products Gas Conversion Kir. LP to Nat. Var-speed Products Gas Conversion Kir. LP to Nat. Var-speed Products Gas Orifice Kir. #42 (Nat Gas) LH32DB207 LH32DB207 LH32DB207 LH32DB208 Gas Orifice Kir. #43 (Nat Gas) LH32DB208 Gas Orifice Kir. #44 (Nat Gas) LH32DB208 Gas Orifice Kir. #45 (Nat Gas) LH32DB208 Gas Orifice Kir. #46 (Nat Gas) LH32DB208 Gas Orifice Kir. #47 (Nat Gas) LH32DB208 Gas Orifice Kir. #47 (Nat Gas) LH32DB208 Gas Orifice Kir. #48 (Nat Gas) LH32DB208 Gas Orifice Kir. #50 (LP) LH32DB201 Gas Orifice Kir. #55 (LP) LH32DB203 Gas Orifice Kir. #55 (LP) LH32DB206 Gas Orifice Kir. 1.50mm (LP) LH32DB206 Gas Orifice Kir. 1.50mm (LP) LH32DB207 Gas Orifice Kir. 1.50mm (LP) LH32DB208 Gas Orifice Kir. 1.50mm (LP) LH32DB208 Gas Orifice Kir. 1.50mm (LP) LH32DB209  Parformance® Series Edge® Thermostat T6-PRH01-A Twinning Kir KGATW891HSI IN ACcessories  Fliter Pack (Gack) - Washable - 16x25x1 KGAWF1300UFR IKGAWF1300UFR IKCAMF3000 Use with EZXCAB-1016 Use with EZXCAB-1020 Use with EZXCAB	•	KGAAD0201MEC		· <u> </u>	_	24"x25" IA	Q Devices	- S		
Gas Conversion Kit - Nat to LP, Var-speed Products KGCNP5201VSP										
Gas Conversion Kir - LP to Natt Var-speed Products		I/OONED COALLOD								
Gas Orifice Kit - #42 (Nat Gas)										•
Gas Orffice Kit - #43 (Nat Gas)  Gas Orffice Kit - #44 (Nat Gas)  Gas Orffice Kit - #45 (Nat Gas)  LH32DB205  Gas Orffice Kit - #45 (Nat Gas)  LH32DB2078  Gas Orffice Kit - #46 (Nat Gas)  LH32DB2078  Gas Orffice Kit - #46 (Nat Gas)  LH32DB2078  Gas Orffice Kit - #48 (Nat Gas)  LH32DB2078  Gas Orffice Kit - #48 (Nat Gas)  LH32DB208  Gas Orffice Kit - #48 (Nat Gas)  LH32DB208  Gas Orffice Kit - #45 (LP)  LH32DB203  Gas Orffice Kit - #56 (LP)  LH32DB203  Gas Orffice Kit - #56 (LP)  LH32DB206  Gas Orffice Kit - #56 (LP)  LH32DB209  Gas Orfice Kit - #56 (LP)  LH32DB201  Gas Orffice Kit - #56 (LP)  LH32DB201  Gas Orffice Kit - #56 (LP)  LH32DB201  Gas Orffice Kit - #56 (LP)  LH32DB203  Gas Orffice Kit - #56 (LP)  LH32DB201  Gas Orffice Kit - #56 (LP)  LH32DB201  Gas Orffice Kit - #56 (LP)  LH32DB201  Gas Orfice Kit	, ,		1							•
Gas Orifice Kir. #44 (Nat Gas)										•
Gas Orifice Kit - #45 (Nat Gas)  Gas Orifice Kit - #46 (Nat Gas)  Gas Orifice Kit - #47 (Nat Gas)  Gas Orifice Kit - #48 (Nat Gas)  Gas Orifice Kit - #50 (LP)  Gas Orifice Kit - 1.25mm (LP)  LH32DB209  LH32DB209  LH32DB209  Gas Orifice Kit - 1.30mm (LP)  Gas Orifice Kit - 1.30mm (LP)  LH32DB209  Gas Orifice Kit - 1.30mm (LP)  LH32DB209  Ferformance Series Edge Thermostat  Tontrol Accessories  Ferformance Series Edge Thermostat  Tontrol Accessories  Filter Pack (6 pack) - Washable - 16x25x1  (406x635x25 mm)  Filter Pack (6 pack) - Washable - 24x25x1  (406x635x25 mm)  Filter Pack (6 pack) - Washable - 24x25x1  (406x635x25 mm)  EXPXXFIL0016  Gas Orifice Kit - 1.26 (Mo mm)  EXPXXFIL0020  Gas Orifice Kit - 1.26 (Mo mm)  EXPXXFIL0020  Gas Orifice Kit - 1.26 (Mo mm)  EXPXXVINV0016  Gas Orifice Kit - 1.26 (Mo mm)  Filty Carbon Gas Orifice Kit - 1.26 (Mo mm)  Filty Carbon Gas Orifice Kit - 1.26 (Mo mm)  Filty Carbon Gas Orifice Kit - 1.26 (Mo mm)  Filty Carbon Gas Orifice Kit - 1.26 (Mo mm)  Filty Carbon Gas Orifice Kit - 1.26 (Mo mm)  Filty Carbon Gas Orifice Kit - 1.26 (Mo mm)  Filty Carbon Gas Orifice Kit - 1.26 (Mo mm)  Filty Carbon Gas Orifice Kit - 1.26 (Mo mm)  Filty Carbon Gas Orifice Kit - 1.26 (Mo mm)  Filty Carbon Gas Orifice Kit - 1.20 (Mo mm)  Filty Carbon Gas Orifice Kit - 1.20 (Mo mm)  Filty Carbon Gas Orifice Kit - 1.20 (Mo mm)  Filty Carbon Gas Orifice Kit - 1.20 (Mo mm)  Filty Carbon Gas Orifice Kit - 1.20 (Mo mm)  Filty Orifice Kit - 1.										•
Gas Orifice Kit #46 (Nat Gas)										•
Cas Orffice Kit + #47 (Nat Gas)	,									•
Gas Orifice Kit. #84 (I/At Gas)	,								-	•
Gas Orifice Kit #55 (LP)	, ,		•	•	•	•	•	•	•	•
Gas Orifice Kit -#55 (LP)	,					•				•
Cas Orffice Kit - 1.25mm (LP)	,		•	•	•	•	•	•	•	•
Gas Orifice Kit - 1.30mm (LP)	Gas Orifice Kit - #56 (LP)	LH32DB206	•	•	•	•	•	•	•	•
Control Accessories         Performance® Series Edge® Thermostat         T6 – PRH01 – A         ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	Gas Orifice Kit - 1.25mm (LP)	LH32DB209	•	•	•	•	•	•	•	•
Performance	Gas Orifice Kit - 1.30mm (LP)	LH32DB210	•	•	•	•	•	•	•	•
Twinning Kit   KGATW0801HS				•	•					
IAQ Accessories   Filter Pack (6 pack) - Washable - 16x25x1			•	•	•	•	•	•	•	•
Filter Pack (6 pack) — Washable - 16x25x1 (406x835x25 mm)  Filter Pack (6 pack) — Washable - 24x25x1 (610x835x25 mm)  EZ-Flex Filter - 16" (406 mm) EXPXXFIL0016 Use with EZXCAB — 1016 EZ-Flex Filter - 20" (508 mm) EXPXXFIL0020 Use with EZXCAB — 1020 EZ-Flex Filter - 24" (610 mm) EXPXXFIL0024 Use with EZXCAB — 1020 EZ-Flex Filter with End Caps - 16" (406 mm) EXPXXINV0016 Use with EZXCAB — 1020 EZ-Flex Filter with End Caps - 20" (508 mm) EXPXXINV0024 Use with EZXCAB — 1016 EZ-Flex Filter with End Caps - 20" (508 mm) EXPXXINV0020 Use with EZXCAB — 1020 EZ-Flex Filter with End Caps - 24" (610 mm) EXPXXINV0024 Use with EZXCAB — 1020 EZ-Flex Filter with End Caps - 24" (610 mm) EXPXXINV0024 Use with EZXCAB — 1020 EZ-Flex Filter with End Caps - 24" (610 mm) EXPXXINV0024 Use with EXXCAB — 1020 EZ-Flex Filter with End Caps - 24" (610 mm) EXPXXINV0024 Use with FILCABXL — 1016 Cartridge Media Filter - 20" (508 mm) FILXXCAR0016 Use with FILCABXL — 1016 Cartridge Media Filter - 20" (508 mm) FILXXCAR0020 Use with FILCABXL — 1020 Cartridge Media Filter - 24" (610 mm) FILXXCAR0024 Use with FILCABXL — 1020 Cartridge Media Filter - 16x25 (406x635 mm) GAPAAXCC1625-A08 Up to 1600 CFM Carrier Infinity Air Purifier 16x25 (508x635 mm) GAPAAXC2025-A08 Up to 2000 CFM Carrier Infinity Air Purifier Repl. Filter - 16x25 (508x635 mm) GAPAAXC2025-A05 Use with GAPAAXCC1625 (508x635 mm) Carrier Infinity Air Purifier Repl. Filter - 20x25 (508x635 mm) GAPACCCAR1625-A05 Use with GAPAAXCC1625 Up to 1600 CFM Carrier Performance Air Purifier - 16x25 (508x635 mm) PGAPXX2025 Up to 1600 CFM Up to 2000 CFM		KGATW0801HSI				•	•		•	•
(406x635x25 mm)   KGAWF1306UFR										
Filter Pack (6 pack) - Washable - 24x25x1 (610x835x25 mm)		KGAWF1306UFR	•	•	•	•	•	•	•	•
EZ-Flex Filter - 16" (406 mm)   EXPXXFIL0016   Use with EZXCAB—1016										
EZ-Flex Filter - 16" (406 mm) EXPXXFIL0016 Use with EZXCAB-1016 EZ-Flex Filter - 20" (508 mm) EXPXXFIL0020 Use with EZXCAB-1020 EZ-Flex Filter - 24" (610 mm) EXPXXFIL0024 Use with EZXCAB-1024 EZ-Flex Filter with End Caps - 16" (406 mm) EXPXXVINV0016 Use with EZXCAB-1016 EZ-Flex Filter with End Caps - 20" (508 mm) EXPXXVINV0020 Use with EZXCAB-1020 EZ-Flex Filter with End Caps - 24" (610 mm) EXPXXVINV0020 Use with EZXCAB-1020 EZ-Flex Filter with End Caps - 24" (610 mm) EXPXXVINV0024 Use with EZXCAB-1024 Cartridge Media Filter - 16" (406 mm) FILXXCAR0016 Use with FILCABXL-1016 Cartridge Media Filter - 20" (508 mm) FILXXCAR0020 Use with FILCABXL-1020 Cartridge Media Filter - 24" (610 mm) FILXXCAR0020 Use with FILCABXL-1020 Cartridge Media Filter - 24" (610 mm) FILXXCAR0024 Use with FILCABXL-1024 Carrier Infinity Air Purifier - 16x25 (406x635 mm) GAPAAXCC1625-A08 Up to 1600 CFM Carrier Infinity Air Purifier - 20x25 (508x635 mm) GAPAAXCC2025-A08 Carrier Infinity Air Purifier Repl. Filter- 16x25 (406x635 mm) Carrier Infinity Air Purifier Repl. Filter- 16x25 (508x635 mm) Carrier Performance Air Purifier - 16x25 (508x635 mm) Carrier Performance Air Purifier - 20x25 (508x635 mm)		KGAWF1506UFR	•	•	•	•	•	•	•	•
EZ-Flex Filter - 20" (508 mm)         EXPXXFIL0020         Use with EZXCAB – 1020           EZ-Flex Filter - 24" (610 mm)         EXPXXFIL0024         Use with EZXCAB – 1024           EZ-Flex Filter with End Caps - 16" (406 mm)         EXPXXVINV0016         Use with EZXCAB – 1016           EZ-Flex Filter with End Caps - 20" (508 mm)         EXPXXUNV0020         Use with EZXCAB – 1020           EZ-Flex Filter with End Caps - 24" (610 mm)         EXPXXUNV0024         Use with EZXCAB – 1020           Cartridge Media Filter - 16" (406 mm)         FILXXCAR0016         Use with FILCABXL – 1016           Cartridge Media Filter - 20" (508 mm)         FILXXCAR0020         Use with FILCABXL – 1020           Cartridge Media Filter - 24" (610 mm)         FILXXCAR0024         Use with FILCABXL – 1020           Cartridge Media Filter - 24" (610 mm)         FILXXCAR0024         Use with FILCABXL – 1024           Carrier Infinity Air Purifier - 16x25 (406x635 mm)         GAPAAXCC1625-A08         Up to 1600 CFM           Carrier Infinity Air Purifier Repl. Filter - 16x25         GAPACCCAR1625-A05         Use with GAPAAXCC1625           (406x635 mm)         GAPACCCAR1625-A05         Use with GAPAAXCC2025           (508x635 mm)         GAPACCCAR2025-A05         Use with GAPAAXCC2025           (508x635 mm)         PGAPXX1625         Up to 1600 CFM           Carrier Performance Air Purifier - 20x25 (508x6	,	EXPXXEII 0016			l II	 se with F7	  ΥСΔΒ10	16		
EZ-Flex Filter - 24" (610 mm)	,									
EZ-Flex Filter with End Caps - 16" (406 mm)										
EZ-Flex Filter with End Caps - 20" (508 mm)         EXPXXUNV0020         Use with EZXCAB – 1020           EZ-Flex Filter with End Caps - 24" (610 mm)         EXPXXUNV0024         Use with EZXCAB – 1024           Cartridge Media Filter - 16" (406 mm)         FILXXCAR0016         Use with FILCABXL – 1016           Cartridge Media Filter - 20" (508 mm)         FILXXCAR0020         Use with FILCABXL – 1020           Cartridge Media Filter - 24" (610 mm)         FILXXCAR0024         Use with FILCABXL – 1024           Carrier Infinity Air Purifier - 16x25 (406x635 mm)         GAPAAXCC1625-A08         Up to 1600 CFM           Carrier Infinity Air Purifier Appl. Filter - 16x25 (508x635 mm)         GAPAAXCC2025-A08         Use with GAPAAXCC1625           Carrier Infinity Air Purifier Repl. Filter - 16x25 (406x635 mm)         GAPACCCAR1625-A05         Use with GAPAAXCC1625           Carrier Infinity Air Purifier Repl. Filter - 20x25 (508x635 mm)         GAPACCCAR2025-A05         Use with GAPAAXCC2025           Carrier Performance Air Purifier - 16x25 (508x635 mm)         PGAPXX1625         Up to 1600 CFM           Carrier Performance Air Purifier - 20x25 (508x635 mm)         PGAPXX2025         Up to 2000 CFM	, ,									
Cartridge Media Filter - 16" (406 mm)         FILXXCAR0016         Use with FILCABXL – 1016           Cartridge Media Filter - 20" (508 mm)         FILXXCAR0020         Use with FILCABXL – 1020           Cartridge Media Filter - 24" (610 mm)         FILXXCAR0024         Use with FILCABXL – 1024           Carrier Infinity Air Purifier - 16x25 (406x635 mm)         GAPAAXCC1625-A08         Up to 1600 CFM           Carrier Infinity Air Purifier - 20x25 (508x635 mm)         GAPAAXCC2025-A08         Up to 2000 CFM           Carrier Infinity Air Purifier Repl. Filter- 16x25 (406x635 mm)         GAPACCCAR1625-A05         Use with GAPAAXCC1625           Carrier Infinity Air Purifier Repl. Filter- 20x25 (508x635 mm)         GAPACCCAR2025-A05         Use with GAPAAXCC2025           Carrier Performance Air Purifier - 16x25 (508x635 mm)         PGAPXX1625         Up to 1600 CFM           Carrier Performance Air Purifier - 20x25 (508x635 mm)         PGAPXX2025         Up to 2000 CFM					U	se with EZ	XCAB-10	20		
Cartridge Media Filter - 20" (508 mm)         FILXXCAR0020         Use with FILCABXL – 1020           Cartridge Media Filter - 24" (610 mm)         FILXXCAR0024         Use with FILCABXL – 1024           Carrier Infinity Air Purifier - 16x25 (406x635 mm)         GAPAAXCC1625-A08         Up to 1600 CFM           Carrier Infinity Air Purifier - 20x25 (508x635 mm)         GAPAAXCC2025-A08         Up to 2000 CFM           Carrier Infinity Air Purifier Repl. Filter- 16x25 (406x635 mm)         GAPACCCAR1625-A05         Use with GAPAAXCC1625           Carrier Infinity Air Purifier Repl. Filter- 20x25 (508x635 mm)         GAPACCCAR2025-A05         Use with GAPAAXCC2025           Carrier Performance Air Purifier - 16x25 (508x635 mm)         PGAPXX1625         Up to 1600 CFM           Carrier Performance Air Purifier - 20x25 (508x635 mm)         PGAPXX2025         Up to 2000 CFM	EZ-Flex Filter with End Caps - 24" (610 mm)	EXPXXUNV0024			U:	se with EZ	XCAB-10	24		
Cartridge Media Filter - 24" (610 mm)         FILXXCAR0024         Use with FILCABXL – 1024           Carrier Infinity Air Purifier - 16x25 (406x635 mm)         GAPAAXCC1625-A08         Up to 1600 CFM           Carrier Infinity Air Purifier - 20x25 (508x635 mm)         GAPAAXCC2025-A08         Up to 2000 CFM           Carrier Infinity Air Purifier Repl. Filter- 16x25 (406x635 mm)         GAPACCCAR1625-A05         Use with GAPAAXCC1625           Carrier Infinity Air Purifier Repl. Filter- 20x25 (508x635 mm)         GAPACCCAR2025-A05         Use with GAPAAXCC2025           Carrier Performance Air Purifier - 16x25 (508x635 mm)         PGAPXX1625         Up to 1600 CFM           Carrier Performance Air Purifier - 20x25 (508x635 mm)         PGAPXX2025         Up to 2000 CFM	Cartridge Media Filter - 16" (406 mm)	FILXXCAR0016			Us	e with FILO	CABXL-1	016		
Carrier Infinity Air Purifier - 16x25 (406x635 mm)         GAPAAXCC1625-A08         Up to 1600 CFM           Carrier Infinity Air Purifier - 20x25 (508x635 mm)         GAPAAXCC2025-A08         Up to 2000 CFM           Carrier Infinity Air Purifier Repl. Filter- 16x25 (406x635 mm)         GAPACCCAR1625-A05         Use with GAPAAXCC1625           Carrier Infinity Air Purifier Repl. Filter- 20x25 (508x635 mm)         GAPACCCAR2025-A05         Use with GAPAAXCC2025           Carrier Performance Air Purifier - 16x25 (508x635 mm)         PGAPXX1625         Up to 1600 CFM           Carrier Performance Air Purifier - 20x25 (508x635 mm)         PGAPXX2025         Up to 2000 CFM		FILXXCAR0020			Us	e with FILO	CABXL-1	020		
Carrier Infinity Air Purifier - 20x25 (508x635 mm)         GAPAAXCC2025-A08         Up to 2000 CFM           Carrier Infinity Air Purifier Repl. Filter- 16x25 (406x635 mm)         GAPACCCAR1625-A05         Use with GAPAAXCC1625           Carrier Infinity Air Purifier Repl. Filter- 20x25 (508x635 mm)         GAPACCCAR2025-A05         Use with GAPAAXCC2025           Carrier Performance Air Purifier - 16x25 (508x635 mm)         PGAPXX1625         Up to 1600 CFM           Carrier Performance Air Purifier - 20x25 (508x635 mm)         PGAPXX2025         Up to 2000 CFM		FILXXCAR0024			Us	e with FILO	CABXL-1	024		
Carrier Infinity Air Purifier Repl. Filter- 16x25 (406x635 mm)         GAPACCCAR1625-A05         Use with GAPAAXCC1625           Carrier Infinity Air Purifier Repl. Filter- 20x25 (508x635 mm)         GAPACCCAR2025-A05         Use with GAPAAXCC2025           Carrier Performance Air Purifier - 16x25 (508x635 mm)         PGAPXX1625         Up to 1600 CFM           Carrier Performance Air Purifier - 20x25 (508x635 mm)         PGAPXX2025         Up to 2000 CFM										
(406x635 mm)         GAPACCCAR1625-A05         Use with GAPAAXCC1625           Carrier Infinity Air Purifier Repl. Filter- 20x25 (508x635 mm)         GAPACCCAR2025-A05         Use with GAPAAXCC2025           Carrier Performance Air Purifier - 16x25 (508x635 mm)         PGAPXX1625         Up to 1600 CFM           Carrier Performance Air Purifier - 20x25 (508x635 mm)         PGAPXX2025         Up to 2000 CFM		GAPAAXCC2025-A08				Up to 20	000 CFM			
(508x635 mm)         GAPACCCAH2025-A05         Use with GAPAACC2025           Carrier Performance Air Purifier - 16x25 (508x635 mm)         PGAPXX1625         Up to 1600 CFM           Carrier Performance Air Purifier - 20x25 (508x635 mm)         PGAPXX2025         Up to 2000 CFM	(406x635 mm)	GAPACCCAR1625-A05			Us	e with GA	PAAXCC16	625		
mm)	(508x635 mm)	GAPACCCAR2025-A05			Us	e with GA	PAAXCC20	025		
mm) PGAPXX2025 Up to 2000 CFM	mm)	PGAPXX1625				Up to 16	600 CFM			
	mm)	PGAPXX2025				Up to 20	000 CFM			
(406x635 mm) PGAPAXXCAH1625 Use with PGAPXX1625	,	PGAPAXXCAR1625			ι	Jse with Po	GAPXX162	25		
Carrier Performance Air Purifier Repl. Filter - 20x25 (508x635 mm)  PGAPAXXCAR2025  Use with PGAPXX2025  Use with PGAPXX2025	(508x635 mm)	PGAPAXXCAR2025			ι	Jse with Po	GAPXX202	25		

Used with the model furnace

## **AIR DELIVERY - CFM**

	Coolin		5 and SW2-	2 set to	OFF, exc	ept as in							
Unit Size	SW2-8	ng Switch S SW2-7	SW2-6	0.1	0.2	0.3	0.4	0.5	Pressure 0.6	0.7	0.8	0.9	1.030
040-10 Clg Default:	OFF	OFF	OFF	1125	1080	1020	970	905	855	805	755	700	635
org Berduit.													
	OFF	OFF	ON	615	555	510	475	440	395	355	270	230	note 8
	OFF	ON	OFF	785	740	695	665	630	590	565	520	485	450
	OFF	ON	ON	990	950	910	875	850	815	770	720	670	615
Cooling (SW2)	ON	OFF	OFF	1125	1080	1020	970	905	855	805	755	700	635
	ON	OFF	ON	1125	1080	1020	970	905	855	805	755	700	635
	ON	ON	OFF	1125	1080	1020	970	905	855	805	755	700	635
	ON	ON	ON	1125	1080	1020	970	905	855	805	755	700	635
Clg SW2:	Maxii	mum Clg Ai	rflow <sup>2</sup>	1125	1080	1020	970	905	855	805	755	700	635
Heating	Hig	ıh Heat Airfl	ow <sup>3</sup>	815	770	725	695	660	625	595	550	510	475
(SW1)	Lo	w Heat Airfl	ow <sup>3</sup>	660	605	560	530	495	450	415	340	300	Note 7
040-12 Clq Default:	OFF	OFF	OFF	1250	1210	1165	1115	1065	1015	965	915	860	810
	OFF	OFF	ON	575	540	490	435	385			See note	4	
	OFF	ON	OFF	770	725	685	640	600	560	515	480	See	note 4
	OFF	ON	ON	945	910	875	835	800	770	735	695	665	635
Cooling (SW2)	ON	OFF	OFF	1140	1105	1075	1040	1005	970	930	885	835	790
	ON	OFF	ON	1250	1210	1165	1115	1065	1015	965	915	860	810
	ON	ON	OFF	1250	1210	1165	1115	1065	1015	965	915	860	810
	ON	ON	ON	1250	1210	1165	1115	1065	1015	965	915	860	810
Clg SW2:	Maxii	mum Clg Ai	rflow <sup>2</sup>	1250	1210	1165	1115	1065	1015	965	915	860	810
Heating	Hig	ıh Heat Airfl	ow <sup>3</sup>	860	825	785	745	705	670	630	595	565	525
(SW1)	Lo	w Heat Airfl	ow <sup>3</sup>	650	595	545	500	460	415	365	320	275	note 7
060 – 12 Clg Default:	OFF	OFF	OFF	1250	1210	1165	1115	1065	1015	955	895	815	745
	OFF	OFF	ON	605	565	510	455	420		,	See note	4	
	OFF	ON	OFF	785	750	705	675	630	585		See n	ote 4	
	OFF	ON	ON	955	920	895	860	825	785	755	720	685	650
Cooling (SW2)	ON	OFF	OFF	1135	1110	1080	1055	1020	990	935	880	825	745
	ON	OFF	ON	1250	1210	1165	1115	1065	1015	955	895	815	745
	ON	ON	OFF	1250	1210	1165	1115	1065	1015	955	895	815	745
	ON	ON	ON	1250	1210	1165	1115	1065	1015	955	895	815	745
Clg SW2:	Maxi	mum Clg Ai	rflow <sup>2</sup>	1250	1210	1165	1115	1065	1015	955	895	815	745
	Hig	ıh Heat Airfl	ow <sup>3</sup>	1125	1100	1070	1045	1010	980	925	875	820	740
Heating (SW1)	Lo	w Heat Airfl	ow <sup>3</sup>	900	865	835	800	760	720	690	650	610	580

## AIR DELIVERY - CFM (CONTINUED)

11-14-01	Coolii	ng Switch S	Settinas				Extern	al Static	Pressure	e (ESP)			-
Unit Size	SW2-8	SW2-7	SW2-6	0.1	0.2	0.3	0.4	0.5	0.6	0.7	8.0	0.9	1.0
Clg Default:	OFF	OFF	OFF	1330	1295	1260	1220	1190	1150	1110	1075	1045	1005
	OFF	OFF	ON	725	660	600	520	435		5	ee note	4	
	OFF	ON	OFF	780	725	660	615	540		5	See note 4	1 4	
	OFF	ON	ON	975	925	875	835	785	750	690	655	610	570
Cooling (SW2)	ON	OFF	OFF	1160	1120	1090	1045	1010	970	920	885	840	800
	ON	OFF	ON	1330	1295	1260	1220	1190	1150	1110	1075	1045	1005
	ON	ON	OFF	1705	1650	1595	1545	1475	1415	1340	1275	1200	1105
	ON	ON	ON	1705	1650	1595	1545	1475	1415	1340	1275	1200	1105
Clg SW2:	Maxi	num Clg A	rflow <sup>2</sup>	1705	1650	1595	1545	1475	1415	1340	1275	1200	1105
Heating	Hiç	ı gh Heat Airfi İ	ow <sup>3</sup>	1145	1105	1075	1030	995	955	905	870	825	785
(SW1) 080-16	Lo	w Heat Airfl	ow <sup>3</sup>	870	820	760	720	655	620	560	525	470	435
Clg Default:	OFF	OFF	OFF	1805	1765	1720	1665	1610	1540	1475	1400	1315	1235
	OFF	OFF	ON	775	635	455	230		5	See note	8		
	OFF	ON	OFF	840	740	675	625	555		5	See note 4	4 	
	OFF	ON	ON	995	955	910	860	815	770	720	660	620	585
Cooling (SW2)	ON	OFF	OFF	1175	1140	1090	1060	1025	980	940	905	855	815
	ON	OFF	ON	1325	1280	1245	1210	1180	1140	1105	1070	1025	990
	ON	ON	OFF	1545	1515	1480	1445	1410	1380	1350	1315	1245	1175
	ON	ON	ON	1805	1765	1720	1665	1610	1540	1475	1400	1315	1235
Clg SW2:	Maxi	mum Clg A	rflow <sup>2</sup>	1805	1765	1720	1665	1610	1540	1475	1400	1315	1235
Heating	Hiç	gh Heat Airf	ow <sup>3</sup>	1520	1490	1455	1420	1385	1355	1320	1285	1220	1155
(SW1) 080-20	Lo	w Heat Airfl	ow <sup>3</sup>	1180	1145	1095	1065	1030	985	945	910	860	820
Clg Default:	OFF	OFF	OFF	1905	1870	1825	1785	1750	1700	1665	1625	1560	1460
	OFF	OFF	ON	950	770	620	515	440	365		See n	ote 4	
	OFF	ON	OFF	1015	935	880	825	765	690	625	580	See r	note 4
	OFF	ON	ON	1155	1105	1040	990	920	875	815	755	710	645
Cooling (SW2)	ON	OFF	OFF	1335	1290	1245	1190	1145	1085	1040	990	930	890
	ON	OFF	ON	1520	1485	1435	1390	1340	1300	1255	1200	1160	1115
	ON	ON	OFF	1905	1870	1825	1785	1750	1700	1665	1625	1560	1460
	ON	ON	ON	2290	2230	2160	2085	2005	1915	1820	1730	1640	1525
Clg SW2:	Max	imum Clg Ai	rflow <sup>2</sup>	2290	2230	2160	2085	2005	1915	1820	1730	1640	1525
Heating		gh Heat Airf		1575	1535	1485	1445	1400	1350	1310	1260	1215	1170
(SW1)	Lo	w Heat Airfl	ow <sup>3</sup>	1230	1170	1125	1065	1015	955	900	855	795	755

NOTE: See notes at end of table.

## **AIR DELIVERY - CFM (CONTINUED)**

Unit Size   SW2-8   SW2-7   SW2-6   0.1   0.2   0.3   0.4   0.5   0.6   0.7   0.8   0.9   1.0		Cacli	a Cuital C	Attings.	1		JI 1VI (			,	(ECD)			
Cooling (SW2)	Unit Size	SW2-8	ig SWITCH S	SW2-6	0.1	0.2	0.3					0.8	0.0	1.0
OFF OFF OFF OFF OFF OFF OFF OFF OFF OF	100-20	UVVZ-0	0112-1	0442-0	0.1	U.Z	1 0.0	0.4	0.5	0.0	0.7	0.0	0.9	1.0
OFF ON OFF 1080 895 815 740 690 615 555 475 See note 4  OFF ON ON 1155 1080 1020 940 890 825 785 710 660 590  Cooling (SW2)  ON OFF OFF 1310 1260 1195 1140 1075 1025 970 925 875 810  ON OFF ON 1520 1475 1425 1365 1315 1255 1210 1155 1110 1055  ON ON ON OFF 1890 1845 1800 1755 1700 1655 1610 1560 1510 1460  ON ON ON ON ON 2290 2230 2160 2085 2005 1915 1820 1730 1640 1525  Clg SW2: Maximum Clg Airflow 2 2290 2230 2160 2085 2005 1915 1820 1730 1640 1525  Heating (SW1)  Low Heat Airflow 3 1905 1865 1825 1775 1730 1685 1640 1590 1545 1490  Low Heat Airflow 3 1480 1435 1375 1330 1265 1215 1160 1115 1000 1005  120-22  Clg Default: OFF OFF OFF 2010 1960 1910 1850 1800 1750 1690 1645 1565 1480  OFF ON ON 1015 805 645 550 480 See note 4  Cooling (SW2)  ON OFF ON ON 1615 1550 1500 1435 1370 1325 1265 1215 1160 1110  ON ON ON OFF 2010 1960 1910 1850 1800 1750 1690 1645 1565 1480  ON ON ON OFF 2010 1960 1910 1850 1800 1750 1690 1645 1565 1480  ON ON ON OFF 2010 1960 1910 1850 1800 1750 1690 1645 1565 1480  ON ON ON OFF 2010 1960 1910 1850 1800 1750 1690 1645 1565 1480  ON ON ON OFF 2010 1960 1910 1850 1800 1750 1690 1645 1565 1480  ON ON ON ON 1615 1550 1500 1435 1370 1325 1265 1215 1160 1110  ON ON ON ON ON 1068 2375 2300 2205 2115 2010 1890 1750 1645 1550  Heating  Heat Airflow 3 note 8 2375 2300 2205 2115 2010 1890 1750 1645 1550		OFF	OFF	OFF	1890	1845	1800	1755	1700	1655	1610	1560	1510	1460
OFF ON OFF 1080 895 815 740 690 615 555 475 See note 4  OFF ON ON 1155 1080 1020 940 890 825 785 710 660 590  Cooling (SW2)  ON OFF OFF 1310 1260 1195 1140 1075 1025 970 925 875 810  ON OFF ON 1520 1475 1425 1365 1315 1255 1210 1155 1110 1055  ON ON ON OFF 1890 1845 1800 1755 1700 1655 1610 1560 1510 1460  ON ON ON ON ON 2290 2230 2160 2085 2005 1915 1820 1730 1640 1525  Clg SW2: Maximum Clg Airflow 2 2290 2230 2160 2085 2005 1915 1820 1730 1640 1525  Heating (SW1)  Low Heat Airflow 3 1905 1865 1825 1775 1730 1685 1640 1590 1545 1490  Low Heat Airflow 3 1480 1435 1375 1330 1265 1215 1160 1115 1000 1005  120-22  Clg Default: OFF OFF OFF 2010 1960 1910 1850 1800 1750 1690 1645 1565 1480  OFF ON ON 1015 805 645 550 480 See note 4  Cooling (SW2)  ON OFF ON ON 1615 1550 1500 1435 1370 1325 1265 1215 1160 1110  ON ON ON OFF 2010 1960 1910 1850 1800 1750 1690 1645 1565 1480  ON ON ON OFF 2010 1960 1910 1850 1800 1750 1690 1645 1565 1480  ON ON ON OFF 2010 1960 1910 1850 1800 1750 1690 1645 1565 1480  ON ON ON OFF 2010 1960 1910 1850 1800 1750 1690 1645 1565 1480  ON ON ON OFF 2010 1960 1910 1850 1800 1750 1690 1645 1565 1480  ON ON ON ON 1615 1550 1500 1435 1370 1325 1265 1215 1160 1110  ON ON ON ON ON 1068 2375 2300 2205 2115 2010 1890 1750 1645 1550  Heating  Heat Airflow 3 note 8 2375 2300 2205 2115 2010 1890 1750 1645 1550														
Cooling (SW2)  OFF ON ON 1155 1080 1020 940 890 825 785 710 660 590  ON OFF OFF 1310 1260 1195 1140 1075 1025 970 925 875 810  ON OFF ON 1520 1475 1425 1365 1315 1255 1210 1155 1110 1085  ON ON ON OFF 1890 1845 1800 1755 1700 1655 1610 1560 1510 1460  ON ON ON ON 2290 2230 2160 2085 2005 1915 1820 1730 1640 1525  Clg SW2: Maximum Clg Airflow 2 2290 2230 2160 2085 2005 1915 1820 1730 1640 1525  Heating (SW1)  Low Heat Airflow 3 1905 1865 1825 1775 1730 1685 1640 1590 1545 1490  Low Heat Airflow 3 1480 1435 1375 1330 1265 1215 1160 1115 1060 1005  120-22  Clg Default: OFF OFF ON 1015 805 645 550 480 See note 4  OFF ON ON 1205 1135 1055 1000 935 See note 4  Cooling (SW2)  ON OFF ON ON 1615 1550 1500 1435 1370 1325 1265 1215 1160 1110  ON ON ON OFF 2010 1960 1910 1850 1800 1750 1690 1645 1565 1480  ON OFF OFF ON 1615 1550 1500 1435 1370 1325 1265 1215 1160 1110  ON ON OFF 2010 1960 1910 1850 1800 1750 1690 1645 1565 1480  ON ON OFF OFF 2010 1960 1910 1850 1800 1750 1690 1645 1565 1480  ON ON OFF OFF 2010 1960 1910 1850 1800 1750 1690 1645 1565 1480  ON ON OFF 375 975 915 835 765 See note 4  Cooling (SW2)  ON OFF OFF 1070 1330 1260 1190 1145 1080 1033 970 905 845  ON OFF ON 1615 1550 1500 1435 1370 1325 1265 1215 1160 1110  ON ON ON ON 1016 8 2375 2300 2205 2115 2010 1890 1750 1645 1550  High Heat Airflow 3 note 8 2375 2300 2205 2115 2010 1890 1750 1645 1550		OFF	OFF	ON	1015	825	630	485	405	325		See r	ote 4	
Cooling (SW2)  OFF ON ON 1155 1080 1020 940 890 825 785 710 660 590  ON OFF OFF 1310 1260 1195 1140 1075 1025 970 925 875 810  ON OFF ON 1520 1475 1425 1365 1315 1255 1210 1155 1110 1085  ON ON ON OFF 1890 1845 1800 1755 1700 1655 1610 1560 1510 1460  ON ON ON ON 2290 2230 2160 2085 2005 1915 1820 1730 1640 1525  Clg SW2: Maximum Clg Airflow 2 2290 2230 2160 2085 2005 1915 1820 1730 1640 1525  Heating (SW1)  Low Heat Airflow 3 1905 1865 1825 1775 1730 1685 1640 1590 1545 1490  Low Heat Airflow 3 1480 1435 1375 1330 1265 1215 1160 1115 1060 1005  120-22  Clg Default: OFF OFF ON 1015 805 645 550 480 See note 4  OFF ON ON 1205 1135 1055 1000 935 See note 4  Cooling (SW2)  ON OFF ON ON 1615 1550 1500 1435 1370 1325 1265 1215 1160 1110  ON ON ON OFF 2010 1960 1910 1850 1800 1750 1690 1645 1565 1480  ON OFF OFF ON 1615 1550 1500 1435 1370 1325 1265 1215 1160 1110  ON ON OFF 2010 1960 1910 1850 1800 1750 1690 1645 1565 1480  ON ON OFF OFF 2010 1960 1910 1850 1800 1750 1690 1645 1565 1480  ON ON OFF OFF 2010 1960 1910 1850 1800 1750 1690 1645 1565 1480  ON ON OFF 375 975 915 835 765 See note 4  Cooling (SW2)  ON OFF OFF 1070 1330 1260 1190 1145 1080 1033 970 905 845  ON OFF ON 1615 1550 1500 1435 1370 1325 1265 1215 1160 1110  ON ON ON ON 1016 8 2375 2300 2205 2115 2010 1890 1750 1645 1550  High Heat Airflow 3 note 8 2375 2300 2205 2115 2010 1890 1750 1645 1550				0.55										
Cooling (SW2)  ON OFF OFF 1310 1260 1195 1140 1075 1025 970 925 875 810  ON OFF ON 1520 1475 1425 1365 1315 1255 1210 1155 1110 1055  ON ON OFF 1890 1845 1800 1755 1700 1655 1610 1560 1510 1460  ON ON ON ON 2290 2230 2160 2085 2005 1915 1820 1730 1640 1525  Clg SW2: Maximum Clg Airflow 2 2290 2230 2160 2085 2005 1915 1820 1730 1640 1525  High Heat Airflow 3 1905 1865 1825 1775 1730 1685 1640 1590 1545 1490  Low Heat Airflow 3 1480 1435 1375 1330 1265 1215 1160 1115 1080 1005  120-22  Clg Default: OFF OFF OFF 2010 1960 1910 1850 1800 1750 1690 1645 1565 1480  OFF ON ON 1015 805 645 550 480 See note 4  OFF ON OFF ON 1615 1550 1500 1435 1370 1325 1265 1215 1160 1110  ON ON OFF ON 1615 1550 1500 1435 1370 1325 1265 1215 1160 1110  ON ON ON OFF 2010 1960 1910 1850 1800 1750 1690 1645 1565 1480  ON ON OFF ON 1615 1550 1500 1435 1370 1325 1265 1215 1160 1110  ON ON ON OFF 2010 1960 1910 1850 1800 1750 1690 1645 1565 1480  ON ON ON OFF 2010 1960 1910 1850 1800 1750 1690 1645 1565 1480  ON ON ON OFF 2010 1960 1910 1850 1800 1750 1690 1645 1565 1480  ON ON ON ON OFF 2010 1960 1910 1850 1800 1750 1690 1645 1565 1480  ON ON ON ON OFF 2010 1960 1910 1850 1800 1750 1690 1645 1565 1480  High Heat Airflow 3 note 8 2375 2300 2205 2115 2010 1890 1750 1645 1550  High Heat Airflow 3 note 8 2375 2300 2205 2115 2010 1890 1750 1645 1550		OFF	ON	OFF	1080	895	815	740	690	615	555	475	See r	note 4
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ON ON ON 2290 2230 2160 2085 2005 1915 1820 1730 1640 1525  Clg SW2: Maximum Clg Airflow <sup>2</sup> 2290 2230 2160 2085 2005 1915 1820 1730 1640 1525  High Heat Airflow <sup>3</sup> 1905 1865 1825 1775 1730 1685 1640 1590 1545 1490  Heating (SW1)  Low Heat Airflow <sup>3</sup> 1480 1435 1375 1330 1265 1215 1160 1115 1060 1005  120-22  Clg Default: OFF OFF OFF 2010 1960 1910 1850 1800 1750 1690 1645 1565 1480  OFF ON OFF 1075 975 915 835 765 See note 4  OFF ON ON 1205 1135 1055 1000 935 See note 4  Cooling (SW2)  ON OFF OFF 1400 1330 1260 1190 1145 1080 1035 970 905 845  ON OFF ON ON 1615 1550 1500 1435 1370 1325 1265 1215 1160 1110  ON ON ON ON note 8 2375 2300 2205 2115 2010 1890 1750 1645 1550  High Heat Airflow <sup>3</sup> note 8 2375 2300 2205 2115 2010 1890 1750 1645 1550  High Heat Airflow <sup>3</sup> note 8 2375 2300 2205 2115 2010 1890 1750 1645 1550		011	011	OIV	1320	1475	1425	1005	1013	1233	1210	1100	1110	1000
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Clg SW2: Maximum Clg Airflow <sup>2</sup> 2290 2230 2160 2085 2005 1915 1820 1730 1640 1525  High Heat Airflow <sup>3</sup> 1905 1865 1825 1775 1730 1685 1640 1590 1545 1490  Low Heat Airflow <sup>3</sup> 1480 1435 1375 1330 1265 1215 1160 1115 1060 1005  120-22  Clg Default: OFF OFF ON 1015 805 645 550 480 See note 4  OFF ON OFF ON 1205 1135 1055 1000 935 See note 4  Cooling (SW2)  ON OFF OFF 1400 1330 1260 1190 1145 1080 1035 970 905 845  ON OFF ON 1615 1550 1500 1435 1370 1325 1265 1215 1160 1110  ON ON ON OFF 2010 1960 1910 1850 1800 1750 1690 1645 1565 1480  Clg SW2: Maximum Clg Airflow <sup>2</sup> note 8 2375 2300 2205 2115 2010 1890 1750 1645 1550  High Heat Airflow <sup>3</sup> note 8 2375 2300 2205 2115 2010 1890 1750 1645 1550  High Heat Airflow <sup>3</sup> note 8 2375 2300 2205 2115 2010 1890 1750 1645 1550			<u> </u>	J	1000						10.0		10.0	1.00
High Heat Airflow 3   1905   1865   1825   1775   1730   1685   1640   1590   1545   1490		ON	ON	ON	2290	2230	2160	2085	2005	1915	1820	1730	1640	1525
High Heat Airflow 3   1905   1865   1825   1775   1730   1685   1640   1590   1545   1490														
Heating (SW1)	Clg SW2:	Maxi	mum Clg Ai	rflow <sup>2</sup>	2290	2230	2160	2085	2005	1915	1820	1730	1640	1525
Heating (SW1)														
Cooling (SW2)   Low Heat Airflow 3   1480   1435   1375   1330   1265   1215   1160   1115   1060   1005		Hiç	h Heat Airfl	ow <sup>3</sup>	1905	1865	1825	1775	1730	1685	1640	1590	1545	1490
120-22   Clg Default:   OFF   OFF   OFF   2010   1960   1910   1850   1800   1750   1690   1645   1565   1480		<u> </u>												
Clg Default:         OFF         OFF         OFF         2010         1960         1910         1850         1800         1750         1690         1645         1565         1480           OFF         OFF         OFF         ON         1015         805         645         550         480         See note 4           OFF         ON         OFF         1075         975         915         835         765         See note 4           Cooling (SW2)         ON         OFF         OFF         1400         1330         1260         1190         1145         1080         1035         970         905         845           ON         OFF         ON         1615         1550         1500         1435         1370         1325         1265         1215         1160         1110           ON         ON         OFF         2010         1960         1910         1850         1800         1750         1690         1645         1565         1480           ON         ON         ON         ON         ON         1960         1910         1850         1800         1750         1645         1565         1480           Clg SW2:		Lo	w Heat Airfl	ow <sup>3</sup>	1480	1435	1375	1330	1265	1215	1160	1115	1060	1005
OFF OFF ON 1015 805 645 550 480 See note 4  OFF ON OFF 1075 975 915 835 765 See note 4  OFF ON ON 1205 1135 1055 1000 935 See note 4  ON OFF OFF 1400 1330 1260 1190 1145 1080 1035 970 905 845  ON OFF ON 1615 1550 1500 1435 1370 1325 1265 1215 1160 1110  ON ON OFF 2010 1960 1910 1850 1800 1750 1690 1645 1565 1480  ON ON ON ON Note 8 2375 2300 2205 2115 2010 1890 1750 1645 1550  Heating		OEE	OEE	OEE	2010	1060	1010	1050	1000	1750	1600	1645	1565	1/00
OFF ON OFF 1075 975 915 835 765 See note 4  OFF ON ON 1205 1135 1055 1000 935 See note 4  Cooling (SW2)  ON OFF OFF 1400 1330 1260 1190 1145 1080 1035 970 905 845  ON OFF ON 1615 1550 1500 1435 1370 1325 1265 1215 1160 1110  ON ON OFF 2010 1960 1910 1850 1800 1750 1690 1645 1565 1480  ON ON ON ON ON note 8 2375 2300 2205 2115 2010 1890 1750 1645 1550  High Heat Airflow 3 note 8 2375 2300 2205 2115 2010 1890 1750 1645 1550  Heating	Oly Delault.	OFF	OFF	OFF	2010	1900	1910	1650	1800	1730	1090	1045	1303	1460
OFF ON OFF 1075 975 915 835 765 See note 4  OFF ON ON 1205 1135 1055 1000 935 See note 4  Cooling (SW2)  ON OFF OFF 1400 1330 1260 1190 1145 1080 1035 970 905 845  ON OFF ON 1615 1550 1500 1435 1370 1325 1265 1215 1160 1110  ON ON OFF 2010 1960 1910 1850 1800 1750 1690 1645 1565 1480  ON ON ON ON ON note 8 2375 2300 2205 2115 2010 1890 1750 1645 1550  High Heat Airflow 3 note 8 2375 2300 2205 2115 2010 1890 1750 1645 1550  Heating		OFF	OFF	ON	1015	805	645	550	480			See note	4	
Cooling (SW2)  OFF ON OFF OFF 1400 1330 1260 1190 1145 1080 1035 970 905 845  ON OFF ON OFF ON 1615 1550 1500 1435 1370 1325 1265 1215 1160 1110  ON ON ON OFF 2010 1960 1910 1850 1800 1750 1690 1645 1550 1500  Clg SW2:  Maximum Clg Airflow <sup>2</sup> note 8 2375 2300 2205 2115 2010 1890 1750 1645 1550 High Heat Airflow <sup>3</sup> note 8 2375 2300 2205 2115 2010 1890 1750 1645 1550														
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Cooling (SW2)  ON OFF OFF 1400 1330 1260 1190 1145 1080 1035 970 905 845  ON OFF ON 1615 1550 1500 1435 1370 1325 1265 1215 1160 1110  ON ON OFF 2010 1960 1910 1850 1800 1750 1690 1645 1565 1480  ON ON ON ON ON note 8 2375 2300 2205 2115 2010 1890 1750 1645 1550  Clg SW2: Maximum Clg Airflow 2 note 8 2375 2300 2205 2115 2010 1890 1750 1645 1550  High Heat Airflow 3 note 8 2375 2300 2205 2115 2010 1890 1750 1645 1550														
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ON OFF ON 1615 1550 1500 1435 1370 1325 1265 1215 1160 1110  ON ON OFF 2010 1960 1910 1850 1800 1750 1690 1645 1565 1480  ON ON ON ON note 8 2375 2300 2205 2115 2010 1890 1750 1645 1550  Clg SW2: Maximum Clg Airflow <sup>2</sup> note 8 2375 2300 2205 2115 2010 1890 1750 1645 1550  High Heat Airflow <sup>3</sup> note 8 2375 2300 2205 2115 2010 1890 1750 1645 1550														
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ON ON ON note 8 2375 2300 2205 2115 2010 1890 1750 1645 1550  Clg SW2: Maximum Clg Airflow <sup>2</sup> note 8 2375 2300 2205 2115 2010 1890 1750 1645 1550  High Heat Airflow <sup>3</sup> note 8 2375 2300 2205 2115 2010 1890 1750 1645 1550  Heating		ON	ON	OFF	0010	1000	1010	1050	1000	1750	1000	1015	4505	4 400
Clg SW2:         Maximum Clg Airflow 2         note 8         2375         2300         2205         2115         2010         1890         1750         1645         1550           High Heat Airflow 3         note 8         2375         2300         2205         2115         2010         1890         1750         1645         1550           Heating         Heating         1750         1645         1550         1750         1645         1550		ON	ON	OFF	2010	1960	1910	1850	1800	1/50	1690	1645	1565	1480
Clg SW2:         Maximum Clg Airflow 2         note 8         2375         2300         2205         2115         2010         1890         1750         1645         1550           High Heat Airflow 3         note 8         2375         2300         2205         2115         2010         1890         1750         1645         1550           Heating         Heating         1750         1645         1550         1550         1645         1550		ON	ON	ON	note 0	0075	0000	0005	0115	0010	1000	1750	1645	1550
High Heat Airflow <sup>3</sup> note 8 2375 2300 2205 2115 2010 1890 1750 1645 1550  Heating		UN	UN	UN	note 8	23/5	2300	2205	2115	2010	1890	1/50	1045	1000
High Heat Airflow <sup>3</sup> note 8 2375 2300 2205 2115 2010 1890 1750 1645 1550  Heating	Cla SW2	Mavi	mum Cla ∆i	rflow <sup>2</sup>	note 8	2375	2300	2205	2115	2010	1890	1750	1645	1550
Heating Heating	Sig UVVZ.	IVICA	main Olg Al	THOW	11010 0	2013	2000	2200	2113	2010	1030	1730	1040	1550
Heating		Hic	h Heat Airfl	ow <sup>3</sup>	note 8	2375	2300	2205	2115	2010	1890	1750	1645	1550
	Heating		,											
1 Nominal 350 CFM/ton cooling airflow is delivered with SW1 –5 and SW2 –2 set to OFF	(SW1)				1735	1675	1625	1560	1500	1455	1395	1345	1285	1225

<sup>1.</sup> Nominal 350 CFM/ton cooling airflow is delivered with SW1-5 and SW2-2 set to OFF.

- 2. Maximum cooling airflow is achieved when switches SW2-6, SW2-7, SW2-8 and SW1-5 are set to ON, and SW2-2 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 of 1880 CFM or less on 21" and 24.5" casing size furnaces are 5% less on side return only installations.
- 6. Return air above 1800 CFM on 24.5" casing requires two sides, one side and bottom, or bottom only to allow sufficient airflow to the furnace.
- 7. For upflow applications, air entering from one side into both the side of the furnace and a return air base counts as a side and bottom return.
- 8. Airflow not stable at this ESP.

Set both SW1-5 and SW2-2 to ON for +7% airflow (nominal 370 CFM/ton). Set SW1-5 to ON and SW2-2 to OFF for +15% airflow (nominal 400 CFM/ton).

Set SW2-2 to ON and SW1-5 to OFF for -7% airflow (nominal 325 CFM/ton).

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

## MAXIMUM ALLOWABLE EXPOSED VENT LENGTH

Table 1 - Maximum Allowable Exposed Vent Lengths in Unconditioned Space Insulation Table - Ft.

	Unit Size					00* B											BTUH					
		Uni	nsula	ted	3/8-ir	ı. Insul	ation	1/2-iı	n. Insul	ation		Unins	ulated		3/8	3-in. Ir	sulatio	on	1/2	?-in. In	sulatio	n
Winter Design	Pipe Dia. in.	1 ½	2	2 ½	1 ½	2	2 1/2	1 ½	2	2 ½	1 ½	2	2 ½	3	1 ½	2	2 ½	3	1 ½	2	2 ½	3
Temp	20	20	20	20	20	50	45	20	60	50	20	30	30	25	20	75	65	60	20	85	75	65
°F	0	10	5	5	20	25	20	20	30	25	15	15	10	10	20	40	30	25	20	45	40	30
	-20	5			20	15	10	20	20	15	10	5			20	25	20	15	20	30	25	20
	-40				15	10	5	15	15	10	5				20	15	15	10	20	20	15	10

	Unit Size								000 BTUH							
	Offic Size		U	Ininsulated	t			3/8-i	n. Insulati	on			1/2-	in. Insulat	ion	
Winter Design	Pipe Dia. in.	1 ½	2	2 ½	3	4	1 ½	2	2 ½	3	4	1 ½	2	2 ½	3	4
Temp	20	15	40	40	35	30	15	50	90	75	65	15	50	70	70	70
°F	0	15	20	15	10	5	15	50	45	35	30	15	50	50	40	35
	-20	15	10	5			15	35	30	20	15	15	40	30	25	15
	-40	10	5				15	25	20	15	5	15	30	25	20	10

	Unit Size						100,0	000 BTUH					
	Offic Size		Uninsul	ated			3/8-in. ln:	sulation			1/2-in. ln:	sulation	
Winter Design	Pipe Dia. in.	2	2 ½	3	4	2	2 ½	3	4	2	2 ½	3	4
Temp	20	20	50	40	35	20	80	95	80	20	80	105	90
°F	0	20	20	15	10	20	55	45	35	20	65	55	45
	-20	15	10	5		20	35	30	20	20	45	35	25
	-40	10	5			20	25	20	10	20	30	25	15

	Unit Size					,000 BT									0,000 B				
	Offic Size	Un	insulat	ed	3/8-i	n. Insula	tion	1/2-i	n. Insula	tion	Un	insulat	ed	3/8-ir	n. Insul	ation	1/2-ir	ı. Insula	ation
Winter Design	Pipe Dia. in.	2 ½	3	4	2 ½	3	4	2 ½	3	4	2 ½	3	4	2 ½	3	4	2 ½	3	4
Temp	20	10	50	40	10	75	95	10	75	105	5	55	50	5	65	105	5	65	125
°F	0	10	20	15	10	55	45	10	65	50	5	25	15	5	65	50	5	65	60
	-20	10	10		10	35	25	10	45	30	5	10	5	5	45	30	5	50	40
	-40	10	5		10	25	15	10	30	20	5	5		5	30	20	5	35	25

### Maximum Allowable Exposed Vent Length in Unconditioned Space - Meters

	Unit Size					00* B											60,000						
	Onne Orze	Uni	insulat	ted	3/8-ir	n. Insula	ation	1/2-iı	n. Insul	ation			Unins	ulated		3/8	3-in. In	sulatio	on	1/2	2-in. In	sulatio	n
Winter Design	Pipe Dia. mm	38	51	64	38	51	64	38	51	64		38	51	64	76	38	51	64	76	38	51	64	76
Temp	-7	6.1	6.1	6.1	6.1	15.2	13.7	6.1	18.3	15.2	1	6.1	9.1	9.1	7.6	6.1	22.9	19.8	18.3	6.1	25.9	22.9	19.8
°C	-18	3.0	1.5	1.5	6.1	7.6	6.1	6.1	9.1	7.6		4.6	4.6	3.0	3.0	6.1	12.2	9.1	7.6	6.1	13.7	12.2	9.1
	-29	1.5			6.1	4.6	3.0	6.1	6.1	4.6		3.0	1.5			6.1	7.6	6.1	4.6	6.1	9.1	7.6	6.1
	-40				4.6	3.0	1.5	4.6	4.6	3.0		1.5				6.1	4.6	4.6	3.0	6.1	6.1	4.6	3.0

	Unit Size								00 BTUH							
	Onit Oize		U	ninsulated	t			3/8-i	n. Insulati	on			1/2-	in. Insula	tion	
Winter Design	Pipe Dia. mm	38	51	64	76	102	38	51	64	76	102	38	51	64	76	102
Temp	-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
°C	-18	4.6	6.1	4.6	3.0	1.5	4.6	15.2	13.7	10.7	9.1	4.6	15.2	15.2	12.2	10.7
	-29	4.6	3.0	1.5			4.6	10.7	9.1	6.1	4.6	4.6	12.2	9.1	7.6	4.6
	-40	3.0	1.5				4.6	7.6	6.1	4.6	1.5	4.6	9.1	7.6	6.1	3.0

	Unit Size		Uninsul	ated			100,0 3/8-in, Ins	000 BTUH			1/2-in. In	sulation	
Winter Design	Pipe Dia. mm	51	64	76	102	51	64	76	102	51	64	76	102
Temp	-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
°C	-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
	-29	4.6	3.0	1.5		6.1	10.7	9.1	6.1	6.1	13.7	10.7	7.6
	-40	3.0	1.5			6.1	7.6	6.1	3.0	6.1	9.1	7.6	4.6

	Unit Size					,000 BT									0,000 B				
	Offic Size	Un	insulat	ed	3/8-i	n. Insula	ition	1/2-i	n. Insula	ition	Un	insulat	ed	3/8-iı	n. Insula	ation	1/2-ir	n. Insula	ition
Winter Design	Pipe Dia. mm	64	76	102	64	76	102	64	76	102	64	76	102	64	76	102	64	76	102
Temp	-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
°C	-18	3.0	6.1	4.6	3.0	16.8	13.7	3.0	19.8	15.2	1.5	7.6	4.6	1.5	19.8	15.2	1.5	19.8	18.3
	-29	3.0	3.0		3.0	10.7	7.6	3.0	13.7	9.1	1.5	3.0	1.5	1.5	13.7	9.1	1.5	15.2	12.2
	-40	3.0	1.5		3.0	7.6	4.6	3.0	9.1	6.1	1.5	1.5		1.5	9.1	6.1	1.5	35	7.6

<sup>\*</sup> 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.

<sup>†</sup> Insulation thickness based on R value of 3.5 per in.

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

Table 2 - Maximum Equivalent Vent Length - Ft.

	Unit Size	Out requ	tet cho ired u ft. TE	oke nder		60,	,000				80,000				100,0	000		12	0,000	)	14	0,000	)
	Pipe Dia. (in)	1 ½	2	2 ½	1 ½	2	2 ½	3	1 ½	2	2 1/2	3	4	2	2 1/2	3	4	2 1/2	3	4	2 1/2	3	4
	0-2000	40	155	185	20	100	175	200	15	50	130	175	200	20	80	175	200	10	75	185	5	65	155
	2001-3000	35	150	175	20	95	165	185		45	125	165	185	15	75	165	185	10	70	175		60	140
et)	3001-4000	30	135	160		90	155	175		45	115	155	175	13	/3	155	175	5	65	165		00	120
(fee	4001-4500	25	130	155	15	85	150	170	10	40	110	150	165		70	133	170			160		50	110
as a	4501-5000	23	125	145	13	80		165		40	110	145	160	10	65	150	165		60	100		45	100
tuģ	5001-6000	20	120	130		75	140	155		35	100	135	150	10	03	140	155			155	N/A	35	80
Altitu	6001-7000	15	110	120	10	70	130	145		30	90	125	140	1	60	135	145	N/A	50	140		30	65
1	7001-8000	10	100	110	10	65	120	135	N/A	30	90	120	125		55	125	135		45	130		25	45
	8001-9000	10	90	95	5	60	115	125	IN/A	25	80	110	115	N/A	50	115	125		40	120		15	30
	9001-10000	5	80	85	N/A	55	105	115		20	75	100	105		45	100	115		30	115		10	15

Meters/MM

## Maximum Equivalent Vent Length - Meters

													0										
	Jnit Size	Out requ	40,000 tlet cho iired ur ft. TE	oke nder		60,0	000			;	80,000				100	,000		1	20,000	0	1	40,000	0
	Pipe Dia. (mm)	38	51	64	38	51	64	76	38	51	64	76	102	51	64	76	102	64	76	102	64	76	102
	0-610	11	57	57	6.5	31	54	61	3	16	40	54	61	6	25	54	61	3	23	57	1.5	21	48
છ	611-914	10	53	53	0.5	29	51	57		15	38	51	57	5	23	51	57	3	21	54		18	42
(meters	915-1219	9	49	49		27	48	54		13	36	48	53	"		48	54	1.5	20	51		10	36
Ĕ	1220-1370	- 8	47	47	5	26	46	52	2	13	34	46	51		22	40	52			50		16	33
	1371-1524	1 °	45	45	] "	24	40	51		13	34	45	50	3	21	46	51		19	30		14	31
Altitude	1525-1829	6	41	41		22	43	47		11	31	42	46	"		43	48			48	N/A	11	25
ΑĦ	1830-2134	5	37	37	3	25	40	44		10	27	39	42		19	41	45	N/A	16	43		9	20
	2135-2438	3.5	33	34	1 3	20	37	42	N/A	'0	21	36	39		18	38	42		14	40		7	15
	2439-2743	3.5	30	30	1.5	19	35	38	IN/A	8	26	34	36	N/A	15	36	39		13	38		5	10
	2744-3048	1.5	26	26	N/A	17	33	36		7	24	31	33		14	34	36		12	35		3.5	5

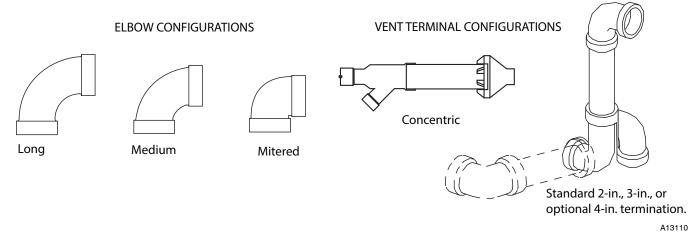


Table 3 – Deductions from Maximum Equivalent Vent Length - Ft. (M)

141	ne 5 – Deu	uchons mo	III WIAXIII	ium Equi	vaiciit vei	n Length	- I t. (IVI)			
Pipe Diameter (in):	1-	1/2	2	2	2-	1/2	;	3	4	1
Mitered 90° Elbow	8	(2.4)	8	(2.4)	8	(2.4)	8	(2.4)	8	(2.4)
Medium Radius 90° Elbow	5	(1.5)	5	(1.5)	5	(1.5)	5	(1.5)	5	(1.5)
Long Radius 90° Elbow	3	(0.9)	3	(0.9)	3	(0.9)	3	(0.9)	3	(0.9)
Mitered 45° Elbow	4	(1.2)	4	(1.2)	4	(1.2)	4	(1.2)	4	(1.2)
Medium Radius 45° Elbow	2.5	(0.8)	2.5	(8.0)	2.5	(8.0)	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	N	IA	0	(0.0)	N	IA .	0	(0.0)	N	Α
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:	nt pipe;	inse	rt the		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	x	3 ft	=	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)	2	х	1.5 ft	=	3 ft.	From Table 3				
Add equiv length of vent termination					0 ft.	From Table 3				
Add correction for flexible vent pipe, if any					0 ft.	From Vent Manufacturer's instructions; zero for PVC/ABS DWV				
Total Equivalent Vent Length (TEVL)					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:	nt pipe;	inse	rt the		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 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

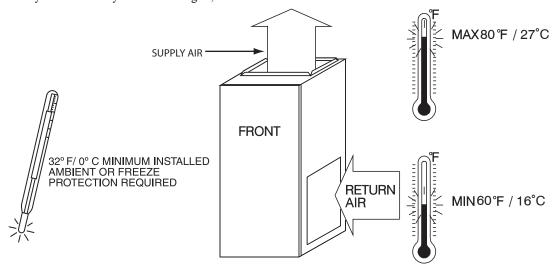
### NOTES:

- 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. 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. (2 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.

## 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.



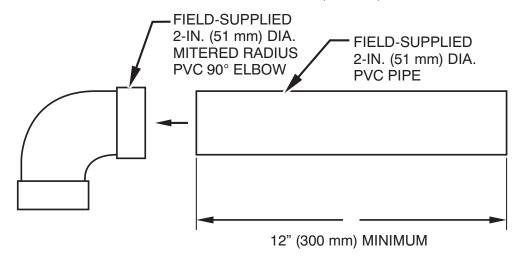
A10490

## 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)

<sup>\*</sup> Recommended

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

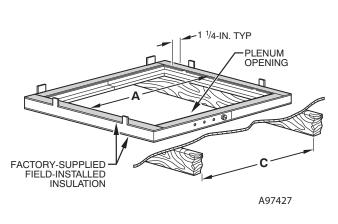


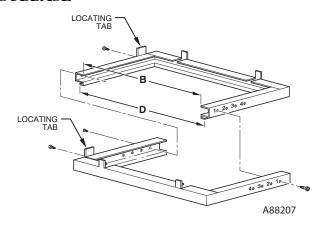
A12376

NOTE: See Installation Instructions for specific venting configurations.

<sup>\*\*</sup>Consult your local building codes

## **DOWNFLOW SUBBASE**



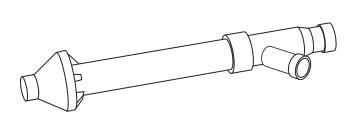


Assembled

Disassembled

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

<sup>\*</sup>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.

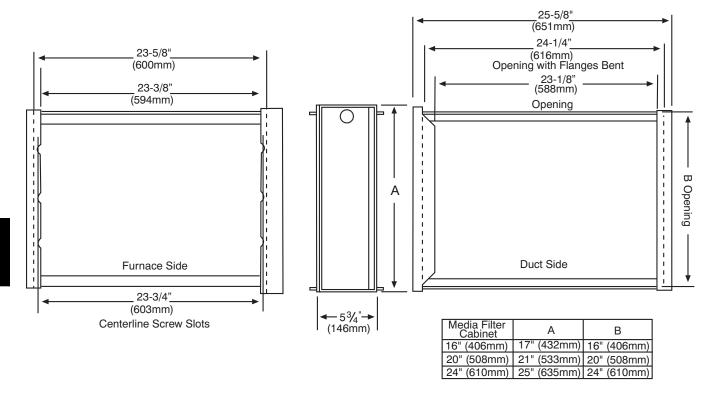


**Downflow Subbase** 

A8820

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

## **OPTIONAL MEDIA FILTER CABINET**

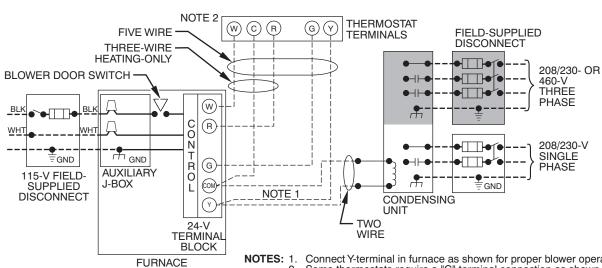


NOTE: Media cabinet is matched to the bottom opening on furnace. May also be used for side return.

A12428

## TYPICAL WIRING SCHEMATIC

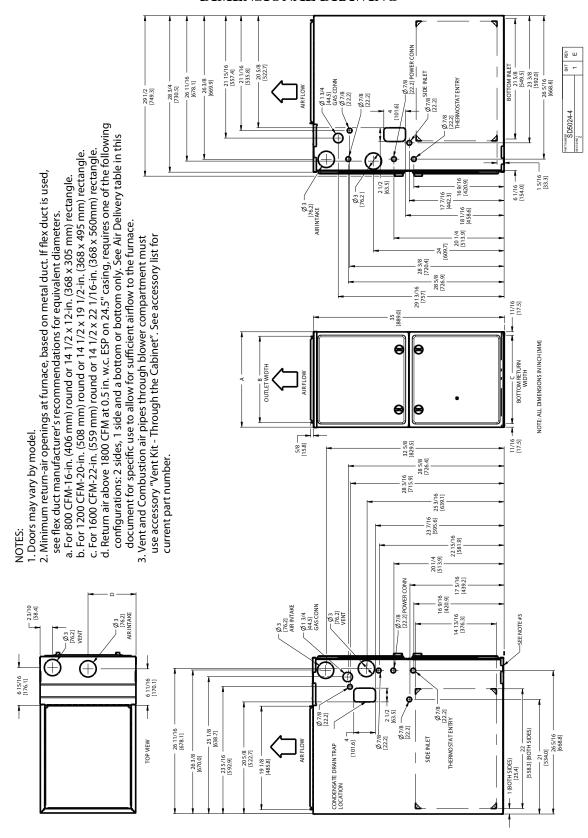
-- FIELD 24-V WIRING -- FIELD 115-, 208/230-, 460-V WIRING -- FACTORY 24-V WIRING FACTORY 115-V WIRING



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

A11387

## **DIMENSIONAL DRAWING**



A1226

					A12267
59TP6A	Α	В	С	D	SHIP WT.
FURNACE SIZE	CABINET WIDTH	OUTLET WIDTH	BOTTOM INLET WIDTH	AIR INTAKE	LB (KG)
040 – 10	14-3/16 (361)	12-1/2 (319)	12-9/16 (322)	7-1/8 (181)	121.0 (55.0)
040 – 12	14-3/10 (301)	12-1/2 (319)	12-9/10 (322)	7 – 1/6 (161)	130.5 (59.2)
060 – 12					131.5 (59.6)
060 – 14	17-1/2 (445)	15-7/8 (403)	16 (406)	8-3/4 (222)	142.0 (64.4)
080 – 16					152.0 (68.9)
080-20	01 (500)	10 0/0 (400)	10, 1/0/405)	10 1/0 (067)	156.0 (70.8)
100-20	21 (533)	19-3/8 (492)	19-1/2 (495)	10-1/2 (267)	166.0 (75.3)
120-22	24-1/2 (622)	22-7/8 (581)	23 (584)	12-1/4 (311)	190.0 (86.2)

#### **GUIDE SPECIFICATIONS**

#### General

#### **System Description**

Furnish a \_\_\_\_\_\_4-way multipoise gas-fired condensing furnace for use with natural gas or propane (factory-authorized conversion kit required for propane); 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 600-1200 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	e reusable-type	e filters.	Filter sha	ll be	in.
(mm) X	in. (mm). At	access	ory highly	efficient	Media
Filter is available a	s an option.		M	edia Filte	r.

## 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 a TP-PRH is selected as the thermostat.

#### **Operating Characteristics**

Heating c	apacity	shall	be			Btuh	input;
		Btuh o	utput capa	acity.		_	_
Fuel Gas E	Efficien	cy shall	be	AFU	JE.		
Air deliver W.C. exter	•			c	fm mir	nimum at	0.50 in.
Dimension			: depth_ ight			(mm); m) (casing	
Height sh	_ `	e		(mm)	with	A/C co	/
Electrica	l Reg	uireme	ents		•		

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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