#### 314AAV/JAV 4-Way Multipoise Induced Combustion Gas Furnace Sizes 045 thru 135 Series B



## **Product Data**



A13240

# The Plus 80w Two-stage, Variable-speed, 4-way Multipoise Gas Furnace offers outstanding comfort in an 80% AFUE furnace.

You get the benefits of Perfect Heat<sup>M</sup>: reduced drafts, reduced sound levels, longer cycles, less temperature swings between cycles, less temperature differences between rooms, and improved indoor air quality. Plus, it features a dehumidify mode and the ability to change continuous fan speeds from the thermostat. The 314AAV/JAV furnaces are approved for use with natural or propane gas.

#### STANDARD FEATURES

Perfect Heat<sup>™</sup> operation

Two-stage heating even with single-stage thermostat-patented Adaptive Control Technology

Reduced operating sound through low-stage operation and sound elimination combustion system

• Variable-speed ECM blower motor

Increased SEER ratings for A/C and H/P systems as compared to the Air Conditioning Heating and Refrigeration Institute's standard coil-only ratings when paired with selected Bryant evaporator coils.

Matches CFM to cooling system over a wide range of static points

- Noise elimination combustion system
- SmartEvap<sup>™</sup> can lower the humidity level in the home by nearly 10 percent
- Certified to leak 2 percent or less of its nominal air conditioning CFM delivered when pressurized to 1-In. Water Gauge with all present air inlets and air outlets sealed.
- Four-position furnace: Upflow, Horizontal Right, Horizontal Left, Downflow

Thirteen different vent options

- Compact design only 33-1/3 in. (847 mm) tall
- Microprocessor based "smart" control center

Fan on *Plus*<sup>™</sup> - Continuous Fan speed adjustable from thermostat

Adjustable heating air temperature rise

Adapts heating stages to meet demand

Dehumidify mode

Enhanced diagnostics with LED and reflective sight glass, non-volatile fault code memory, and self test feature On-board fuse for transformer protection

- Patented blocked vent safeguard to ensure proper furnace venting
- Insulated blower compartment
- HYBRID HEAT<sup>®</sup> Dual Fuel System compatible
- All models are chimney friendly when used with accessory vent kit
- Perfect Light<sup>™</sup> Igniter
- Residential installations eligible for consumer financing through the Comfort Credit Program



#### NOTES:

1. Two additional 7/8-in. (22 mm) diameter holes are located in the top plate.

2. Minimum return-air openings at furnace, based on metal duct. If flex duct is used, see flex duct manufacturer's recommendations for equivalent diameters. a. For 800 CFM-16-in. (406 mm) round or 14 1/2 x 12-in. (368 x 305 mm) rectangle.

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

d. For airflow requirements above 1800 CFM, see Air Delivery table in Product Data literature for specific use of single side inlets. The use of both side inlets, a combination of 1 side and the bottom, or the bottom only will ensure adequate return air openings for airflow requirements above 1800 CFM.

	A	В	С	D			
FURNACE SIZE	CABINET WIDTH	OUTLET WIDTH	TOP AND BOTTOM FLUE COLLAR	BOTTOM INLET WIDTH	VENT CONNECTION SIZE	SHIP WT. LB (KG)	ACCESSORY FILTER MEDIA CABINET SIZE
036045	14-3/16 (360)	12-9/16 (319)	9-5/16 (237)	12-11/16 (322)	4 (102)	107 (49)	16 (406)
048070	17-1/2 (445)	15-7/8 (403)	11-9/16 (294)	16 (406)	4 (102)	126 (57)	16 (406)
048090	21 (533)	19-3/8 (492)	13-5/16 (338)	19-1/2 (495)	4 (102)	140 (64)	20 (506)
066110	21 (533)	19-3/8 (492)	13-5/16 (338)	19-1/2 (495)	4 (102)	152 (69)	20 (506)
066135	24-1/2 (622)	22-7/8 (581	15-1/16 (383)	23 (584)	4 (102)	163 (74)	24 (610)

\*135 size furnaces require a 5 or 6-in. (127 or 152 mm) vent. Use a vent adapter between furnace and vent stack. See Installation Instructions for complete installation requirements.

## **CLEARANCE TO COMBUSTIBLES**







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





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## **SPECIFICATIONS**

UNIT SIZE			036045	048070	048090	066110	066135		
RATINGS AND PERFORMANCE									
Input Btuh*	All 314AAV; All 314JAV Up-	High	44,000	66,000	88,000	110,000	132,000		
Nonweatherized ICS	flow	Low	29,000	43,500	58,000	72,500	87,000		
Input Btuh*	All 314JAV Downflow /	High	42,000	63,000	84,000	105,000	126,000		
Nonweatherized ICS	Horizontal	Horizontal Low				72,500	87,000		
Output Capacity (Btuh)†		35,000	53,000	71.000	89,000	107,000			
Nonweatherized ICS		23,000	35,000	47,000	59,000	70,000			
Output Capacity (Btuh)†	All 314JAV Downflow / Hori-	High	34,000	51,000	68.000	85,000	102,000		
Nonweatherized ICS	zontal	Low	23,000	35,000	47,000	59,000	70,000		
AFUE†			80.0	80.0	80.0	80.0	80.0		
Certified Temperature Rise Range – °F (	² C)	High	30-60 (17–33)	25-55 (14–30)	30-60 (17–33)	30-60 (17–33)	40-70 (22-39)		
	,	Low	20-50 (11–28)	15-45 (8–25)	25-55 (14–30)	20-50 (11–28)	25-55 (14-30)		
Certified External Static Pressure		Heat/Cool	0.10/0.50	0.12/0.50	0.15/0.50	0.20/0.50	0.20/0.50		
Airflow CFM‡	Heat	ing High/Low	820/725	1570/1045	1265/1030	1555/1295	1865/1640		
		Cooling	1175	1685	1770	2230	2290		
ELECTRICAL									
Unit Volts – Hertz – Phase			115-60-1						
Operating Voltage Range	Min-Ma	ax	104-127						
Maximum Unit Amps			8.0	9.6	10.2	13.0	13.0		
Maximum Wire Length (Measure 1 Way i	n Ft. (M))		34 (10.4)	28 (8.5)	27 (8.2)	34 (10.4)	34 (10.4)		
Minimum Wire Size			14 12						
Maximum Fuse or Ckt Bkr Size (Amps)**			15 20						
Fitamet Caster	11				40va				
External Control	Heating	y ~			12Va				
Air Conditioning Player Poley	Coolin	y	Standard						
					Stanuaru				
					SPST				
Heating Blower Control				Solid-S	tate Time On	eration			
Burners (Monoport)			2	3		5	6		
Gas Connection Size			-	0	1/2-in, NPT	9	Ű		
GAS CONTROLS					.,				
Gas Valve	Mfr.		White-Rodgers						
(Redundant)	4.5 (Natural Gas)								
	13.6 (Natural Gas)								
Ignition Device	Hot Surface								
Factory-installed orifice			Size 43						
BLOWER DATA									
Direct-Drive Motor HP (ECM)			1/2	3/4	3/4	1	1		
Motor Full Load Amps			6.8	8.4	8.4	10.9	10.9		
RPM (Nominal)					1200		I		
Blower Wheel Diameter x Width - In. (m	10 x 6	11 x 8	10 x 10 (254x254)	11 x 11 (270x270)	11 x 11 (270x270)				

\* Gas input ratings are certified for elevations to 2000 ft. (610 M). For elevations above 2000 ft. (610 M), reduce ratings 4 percent for each 1000 ft. (305 M) above sea level. Refer to National Fuel Gas Code NFPA 54/ANSI Z223.1 – 2012 Table F.4 or furnace installation instructions.

 $\label{eq:capacity} \mbox{ in accordance with U.S. Government DOE test procedures.}$ 

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

\*\* Time-delay type is recommended.

ICS Isolated Combustion System



#### Venting Notes

- For common vent, vent connector sizing and vent material: United States, latest edition of the National Fuel Gas 1. Code (NFGC), ANSI Z223.1/NFPA 54.
- Immediately increase to 5-in. (127 mm) vent connector outside furnace casing when 5-in. (127 mm) vent connector 2. required, refer to Note 1.
- З. Side outlet vent for upflow and downflow installations must use Type B vent immediately after exiting the furnace, except when Downflow Vent Guard is used in downflow position.
- Type B vent where required, refer to Note 1. 4.
- 5.
- 6.
- 4-in. (102 mm) single wall vent must be used inside furnace casing and the Downflow Vent Guard Kit. Accessory Downflow Vent Guard Kit required in downflow installations with bottom vent configuration. Chimney Adapter Kit required for exterior masonry chimney applications. Refer to Chimney Adapter Kits for sizing and complete application details. 7.
- Secure vent connector to furnace elbow with (2) corrosion-resistant sheet metal screws, space approximately 180° 8. apart.
- Secure all other single wall vent connector joints with (3) corrosion-resistant screws spaced approximately 120° apart. Secure Type B vent connectors per vent connector manufacturer's recommendations. 9.



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#### ACCESSORIES

DESCRIPTION	PART NO.	036045	048070	048090	066110	066135					
	FILCABXL0016	Х	Х								
Media Filter Cabinet	FILCABXL0020			Х	Х						
	FILCABXL0024					Х					
	FILBBCAR0016	Х	Х								
Cartridge Media Filter	FILBBCAR0020			Х	Х						
	FILBBCAR0024					Х					
	EXPXXUNV0016	Х	Х								
EZ Flex Media Filter with End Caps	EXPXXUNV0020			Х	Х						
	EXPXXUNV0024					Х					
	EXPXXFIL0016	Х	Х								
Replacement EZ Flex Filter Media	EXPXXFIL0020			Х	Х						
	EXPXXFIL0024					Х					
	KGBFR0401B14	Х									
External Bottom Return	KGBFR0501B17		Х								
Filter Rack	KGBFR0601B21	Х	Х								
	KGBFR0701B24			Х	Х						
External Side Return Filter Rack	KGAFR0201ALL	Х	Х	Х	Х	Х					
	KGAWF1306UFR†	Х	Х								
Unframed Filter, 3/4-in. (19 mm)	KGAWF1406UFR			Х	Х						
	KGAWF1506UFR					Х					
Flue Extension	KGAFE0112UPH	Х	Х	Х	Х	Х					
Combustible Floor Base	KGASB0201ALL	Х	Х	Х	Х	Х					
Downflow Vent Guard	KGBVG0101DFG	Х	Х	Х	Х	Х					
Vent Extension Kit	KGAVE0101DNH	Х	Х	Х	Х	Х					
Chimney Adapter Kit	KGACA02014FC	Х	Х	х	Х						
	KGACA02015FC					Х					
Natural-to-Propane Conversion Kit *	KGCNP5201VSP	х	х	х	х	х					
Propane-to-Natural Conversion Kit	KGCPN4401VSP	х	х	х	х	х					
Twinning Kit	KGATW0801HSI			Х	Х	Х					
High Altitude Kit	KGAHA5801PSW	Х	Х	Х	Х	Х					
	LH32DB207										
	LH32DB202										
	LH32DB200										
	LH32DB205										
	LH32DB208										
Gas Orifice	LH32DB078	See Installat	tion Instructions	for model altitu	ide and heat v	alue usades					
	LH32DB076					alde deugee.					
	LH32DB203										
	LH32DB201										
	LH32DB206										
	LH32DB209										
	LH32DB210										
UV Lights			Model UV	L							
Heat/Energy Recovery Ventilator	ļ		Models HRV of	r ERV							
Humidifier	ļ		Model HUI	N							
Electronic or Mechanical Air Cleaner		Model	EACA, EZXCA	B, or FILCAB							

\* Factory authorized, field installed. Fuel conversion kits are CSA (formerly AGA/CGA) recognized.

† Suitable for Side Return Filter Rack.

X = Accessory

S = Standard

## **CONTROLS - THERMOSTAT AND ZONING**

DESCRIPTION	PART NO.
NON-PROGRAMMABLE	
For use with 1-speed Air Conditioner – deg. F/C, Auto Changeover	T6-NAC, T2-NAC
For use with 1-speed Heat Pump – deg. F/C, Auto Changeover	T6-NHP, T2-NHP*
For use with 2-speed Air Conditioner – deg. F/C, Auto Changeover	T6-NRH*
For use with multi-use / stage configurations - deg. F/C, Auto Changeover/Temperature and Humidity Con- trol	T6-PRH†
PROGRAMMABLE THERMOSTAT SELECTION	
For use with 1-speed Air Conditioner – deg. F/C, Auto Changeover, 7-Day Programmable	T6-PAC
For use with 1-speed Heat Pump – deg. F/C, Auto Changeover, 7-Day Programmable	T6-PHP*
For use with 2-speed Air Conditioner - deg. F/C, Auto Changeover, 7-Day Programmable	T6-PRH*
For use with 1-speed Air Conditioner – deg. F/C, 5–2 Day Programmable	T6-PAC
For use with multi-stage applications - deg. F/C, Auto Changeover, 7-Day Programmable	T2-PHP‡
For multi-use / stage configurations - deg. F/C, Auto Changeover, 7-Day Programmable/Temperature and Humidity Control	T6-PRH†

\* Model HP and 2S thermostat must be field converted to air conditioner operation.

Thermidistat Control can be configured for multiple use and staging. It must be configured for each specific application. t

Dual Fuel thermostat is used with furnace and heat pump application. ŧ



## MODEL NUMBER NOMENCLATURE

$\frac{1}{2} = \frac{1}{2} = \frac{1}$													
		(SW1	-5 and SW	2-2 set to	OFF ex	ventasi	ndicated	See not	es 1 and	riiter) 2)			
	Cooling	Switch S	ettings				Extern	al Static	Pressure	(ESP)			
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
036045			i										r
	OFF	OFF	OFF	1190	1140	1100	1065	1020	985	905	800	665	525
	OFF	OFF	ON	620	560	520	455	410	355	305	255	See n	ote 4
	OFF	ON	OFF	795	755	705	670	615	585	530	490	440	405
	OFF	ON	ON	1020	955	930	890	840	805	755	715	645	490
	ON	OFF	OFF	1190	1140	1100	1065	1020	985	905	800	665	525
	ON	OFF	ON	1455	1390	1325	1255	1175	1085	1000	880	755	575
	ON	ON	OFF	1455	1390	1325	1255	1175	1085	1000	880	755	575
	ON	ON	ON	1455	1390	1325	1255	1175	1085	1000	880	755	575
	Maxim	num Clg Ai	rflow <sup>2</sup>	1455	1390	1325	1255	1175	1085	1000	880	755	575
	High	n Heat Airfl	ow <sup>3</sup>	915	860	825	790	735	700	650	610	550	450
	Low	Heat Airfl	ow <sup>3</sup>	780	730	685	635	585	545	495	450	400	370
Unit Size	Cooling	Switch S	ettings				Extern	al Static	Pressure	(ESP)			
048070	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
040070	OFF	OFF	OFF	1615	1570	1530	1490	1450	1405	1365	1325	1280	1210
	OFF	OFF		640	1070	1000	1400	1400 C		4	1020	1200	1210
				040	775	700	0.40		see note .	-	-1- 4		
	OFF	ON	OFF	840	//5	700	640	005	750	Seen		-	
	OFF			1045	980	920	860	805	750	690	640	Seen	
	ON	OFF	OFF	1220	11/5	1120	1075	1025	970	925	8/5	820	//5
	ON	OFF	ON	1390	1335	1290	1245	1200	1155	1105	1055	1015	970
	ON	ON	OFF	1615	1570	1530	1490	1450	1405	1365	1325	1280	1210
	ON	ON	ON	1890	1850	1810	1750	1685	1615	1545	1475	1395	1275
	Maxim	num Clg Ai	rflow <sup>2</sup>	1890	1850	1810	1750	1685	1615	1545	1475	1395	1275
	High	h Heat Airfl	ow <sup>3</sup>	1540	1490	1450	1410	1365	1320	1275	1235	1190	1140
	Low	Heat Airfl	ow <sup>3</sup>	1370	1320	1275	1225	1180	1135	1085	1040	995	950
Unit Size		SW/2 7	ettings	0.1	0.2	0.3	Extern	al Static	Pressure	(ESP)	0.8	0.0	10
048090	3772-0	5002-1	3112-0	0.1	0.2	0.5	0.4	0.5	0.0	0.7	0.0	0.5	1.0
	OFF	OFF	OFF	1625	1580	1535	1490	1445	1390	1325	1215	1070	910
	OFF	OFF	ON	555		1		S	See note 4	1			
	OFF	ON	OFF	845	770	670	595			See r	note 4		
	OFF	ON	ON	1010	950	880	790	725	670	580	Ś	See note 4	1
	ON	OFF	OFF	1210	1155	1105	1035	970	910	850	800	730	660
	ON	OFF	ON	1405	1360	1305	1255	1185	1130	1070	1015	960	875
	ON	ON	OFF	1625	1580	1535	1490	1445	1390	1325	1215	1070	910
	ON	ON	ON	2095	2010	1935	1855	1770	1675	1540	1300	1120	940
	Maxim	num Clg Ai	rflow <sup>2</sup>	2095	2010	1935	1855	1770	1675	1540	1300	1120	940
	High	h Heat Airfl	ow <sup>3</sup>	1735	1685	1630	1580	1520	1455	1375	1235	1085	915
	Low Heat Airflow <sup>3</sup>			780	730	685	635	585	545	495	450	400	370

## AIR DELIVERY—CFM (With Filter)\*

Linit Cinc	Cooling	Cooling Switch Settings			External Static Pressure (ESP)										
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		
066110															
	OFF	OFF	OFF	2055	2000	1950	1900	1840	1790	1740	1675	1625	1565		
	OFF	OFF	ON	855	755		•	•	See r	note 4			-		
	OFF	ON	OFF	1060	985	875	800	700	See note 4						
	OFF	ON	ON	1250	1180	1095	1025	925	860	775	715	See r	note 4		
	ON	OFF	OFF	1445	1380	1320	1235	1175	1100	1035	955	900	825		
	ON	OFF	ON	1685	1630	1560	1505	1445	1375	1320	1265	1195	1140		
	ON	ON	OFF	2055	2000	1950	1900	1840	1790	1740	1675	1625	1565		
	ON	ON	ON	2465	2415	2365	2305	2230	2140	2045	1925	1805	1655		
	Maxin	num Clg Ai	rflow <sup>2</sup>	2465	2415	2365	2305	2230	2140	2045	1925	1805	1655		
	Higl	h Heat Airf	ow <sup>3</sup>	2105	2055	2005	1955	1895	1850	1795	1735	1665	1580		
	Low	v Heat Airfl	ow <sup>3</sup>	1740	1685	1620	1560	1505	1440	1385	1325	1260	1205		
Linit Sizo	Cooling	g Switch S	ettings	External Static Pressure (ESP)											
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		
066135		1			1	I	i	1	1	1	1	-			
	OFF	OFF	OFF	2040	1985	1930	1880	1830	1775	1715	1660	1595	1510		
	OFF	OFF	ON	850	740			See note 4							
	OFF	ON	OFF	1040	960	865	755	See note 4							
	OFF	ON	ON	1245	1170	1080	1005	920 835 750 See note 4			4				
	ON	OFF	OFF	1450	1385	1305	1245	1180	1085	1015	935	880	805		
	ON	OFF	ON	1670	1605	1540	1480	1425	1350	1280	1220	1135	1070		
	ON	ON	OFF	2040	1985	1930	1880	1830	1775	1715	1660	1595	1510		
	ON	ON	ON	2520	2455	2405	2350	2290	2195	2090	1965	1815	1615		
	Maxin	num Clg Ai	rflow <sup>2</sup>	2520	2455	2405	2350	2290	2195	2090	1965	1815	1615		
	Higl	h Heat Airf	ow <sup>3</sup>	2260	2205	2150	2100	2045	1985	1925	1855	1745	1600		
	Low	v Heat Airfl	ow <sup>3</sup>	2005	1950	1895	1845	1790	1735	1675	1620	1550	1475		

#### AIR DELIVERY—CFM (With Filter)\* (Continued)

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

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).

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 on 21" casing size furnaces are 5% less on side return only installations.

6. Side returns for 24.5" casing sizes require two sides, or side and bottom, to allow sufficient airflow at the return of the furnace.

## **GUIDE SPECIFICATIONS**

### Gas Furnace 314AAV/JAV General

#### SYSTEM DESCRIPTION

Furnish a \_\_\_\_\_\_ fixed capacity gas-fired furnace for use with natural gas or propane (factory authorized conversion kit required for propane); furnish cold air return plenum.

#### **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 3rd 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® label.

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 shall carry the current Federal Trade Commission Energy Guide efficiency label.

#### **DELIVERY, STORAGE AND HANDLING**

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

#### WARRANTY (for inclusion by specifying engineer)

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

#### Products

#### **EQUIPMENT**

Components shall include: slow-opening gas valve to reduce ignition noise, regulate gas flow, with electric switch gas shut-off; flame proving sensor, hot surface igniter, pressure switch assembly, flame rollout switch, blower and inducer assembly, 40va transformer; low-voltage (heating) (heating/cooling) thermostat.

#### **Blower Wheel and Blower Motor**

Galvanized blower wheel shall be centrifugal type, statically and dynamically balanced. Blower motor of ECM type shall be permanently lubricated with sealed bearings, of \_\_\_\_\_hp, and shall be multiple-speed direct drive. Blower motor shall be soft mounted to the blower scroll to reduce vibration transmission.

#### <u>Filters</u>

Furnace may have reusable-type filters. Filter shall be \_\_\_\_\_ in. (mm) (x) in. (mm).

#### Casing

Casing shall be of .030 in. (.76 mm) thickness minimum, pre-painted steel.

#### Inducer Motor

Inducer motor shall be soft mounted to reduce vibration transmission.

#### **Draft Safeguard Switch**

Draft Safeguard Switch (blocked vent safeguard) shall be factory installed to reduce the possibility of vent gas infiltration due to a blocked or restricted vent pipe.

#### Heat Exchangers

Heat exchangers shall be a 4-Pass 20 gage aluminized steel of fold-and-crimp sectional design when applied operating under negative pressure.

#### **Controls**

Control shall include a micro-processor based integrated electronic control board with at least 11 service troubleshooting codes displayed via enhanced flashing LED diagnostic light on the control, a self-test feature that checks all major functions of the furnace within one minute, 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 350 or 400 CFM per ton of air conditioning. Features will also include temporary reduced airflow in the cooling mode for improved dehumidification when a Thermidistat<sup>®</sup> is selected as the thermostat.

#### **OPERATING CHARACTERISTICS**

Heating Capacity shall be	Btuh input; Btuh
output capacity.	
Fuel Gas Efficiency shall be $80\%$ AF	UE.
Air delivery shall be	CFM minimum at 0.50 In.
W.C. external static pressure.	
Dimensions shall be depth	in (mm) <sup>,</sup> width

in. (mm); height \_\_\_\_\_ in. (mm) (casing only). Height shall be\_\_\_\_\_in. (mm) with A/C coil and in. (mm)overall with plenum.

#### **ELECTRICAL REQUIREMENTS**

Electrical supply shall be 115 volts, 60 Hz, single-phase (nominal). Minimum wire size shall be\_\_\_\_\_AWG; maximum fuse size or circuit breaker shall be \_\_\_\_\_Amps.

#### SPECIAL FEATURES

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

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