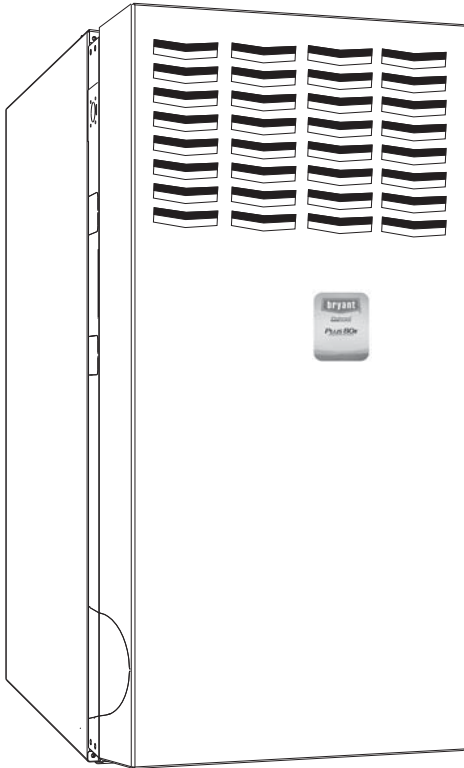


Product Data



A08288

THE BRYANT *Plus* 80x GAS FURNACE

The *Plus* 80x Deluxe 4-Way Multipoise Gas Furnace offers outstanding features in an 80% AFUE furnace.

Deluxe features include: an ECM motor which enhances SEER performance up to 1.5 points*, a third fan relay for discrete continuous fan speed, the ability to change continuous fan speeds from the thermostat (Fan on *Plus*[™]), dehumidify mode, standard Media Filter Cabinet, fault code storage, and more. The *Plus* 80x is very quiet thanks to a new combustion design that eliminates noise, rather than just muffle or box it in. Applications are easy with 4-way multipoise design, through-the-furnace downflow venting, 13 different venting options, and a door designed for easy service access. An inner blower door is provided for tighter sealing in sensitive applications. The 313JAV is approved for use in Low NOx Air Quality Management Districts.

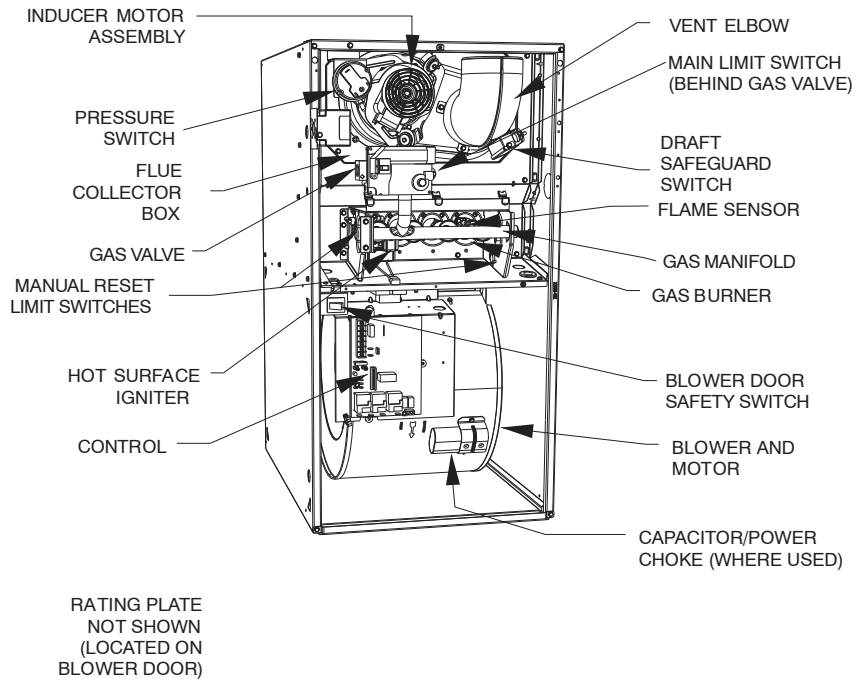
*as compared to the Air Conditioning Heating and Refrigeration Institute's standard coil-only ratings when paired with selected Bryant evaporator coils.

STANDARD FEATURES

- ECM blower motor included
- Noise elimination combustion system
- SmartEvap[™] can lower the humidity level in the home by nearly 10%
- Four-position furnace: Upflow, Horizontal Right, Horizontal Left, Downflow
Thirteen different vent options
- Compact design only 33-1/3 in. (847 mm) tall
- High-Efficiency Media Filtration Cabinet included
- Washable filter included
- Microprocessor based "smart" control center
"Fan on *Plus*[™]"--Continuous Fan speed adjustable from thermostat
Adjustable heating air temperature rise
Dehumidify mode
LED diagnostics, 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[®] Dual Fuel System compatible
- All models are chimney friendly when used with accessory vent kit
- Perfect Light[™] Igniter
- Residential installations eligible for consumer financing through the Comfort Credit Program

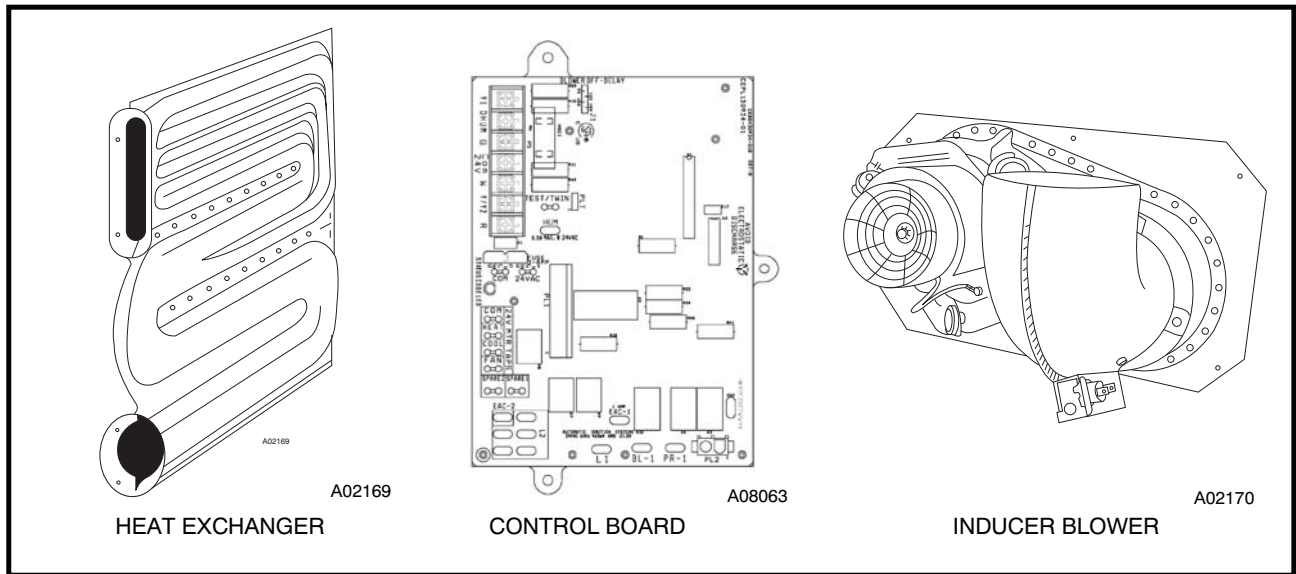
FURNACE COMPONENTS

313AAV/JAV

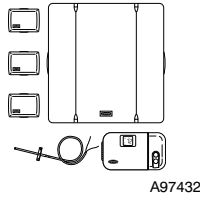


A02259

NOTE: The 313AAV/JAV Furnaces are factory shipped for use with natural gas. These furnaces can be field-converted for propane gas with a factory-authorized and listed accessory conversion kit.



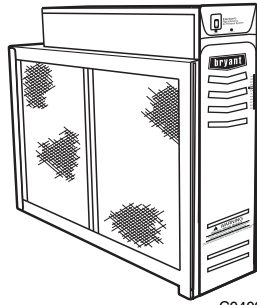
BRYANT ACCESSORIES



CONTROLS: THERMOSTATS AND ZONING

Available in programmable and non-programmable models, Bryant thermostats maintain a constant, comfortable temperature level in the home.

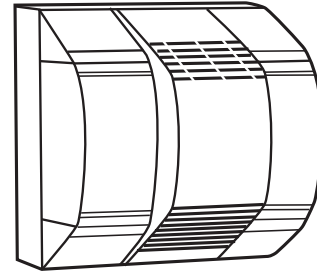
For the ultimate in home comfort, Bryant's 2, 4, and 8-zone systems allow temperature control of individual "zones" of the home. This is accomplished through a series of electronic dampers and remote room sensors. The 4-zone system is shown.



MECHANICAL OR ELECTRONIC AIR CLEANER

Cleans the air of smoke, dirt, and many pollens commonly found. Saves decorating and cleaning expenses by keeping carpets, furniture, and drapes cleaner.

Electronic air cleaner is shown.



MODEL HUMCCLFP HUMIDIFIER

By adding moisture to winter-dry air, a Bryant humidifier can often improve comfort and keep furniture, rugs, and draperies in better condition. Moisturizing household air also helps to retain normal body heat and provides comfort at lower temperatures.

A08153

313AAV/JAV

ACCESSORIES	
ELECTRONIC AIR CLEANER (EAC)	Model EACB
AIR PURIFIER	Models GAPAAxBB1625, GAPAAxBB2025
MECHANICAL AIR CLEANER	Models EZXCAB, FILCAB
HUMIDIFIER	Model HUM
HEAT RECOVERY VENTILATOR	Model HRV
ENERGY RECOVERY VENTILATOR	Model ERV
UV LIGHTS	Model UVL
THERMOSTAT – 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 Control – T6-PRH†
THERMOSTAT – PROGRAMMABLE	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†
ZONING CONTROL	Zone Perfect 3-Zone kit – ZONEBB3ZAC01, ZONEBB3ZHP01
	2-Zone Perfect Plus kit/Temperature and Humidity Control – ZONEBB2KIT01-B
	4-Zone Perfect Plus kit/Temperature and Humidity Control – ZONEBB4KIT01-B
	8-Zone Perfect Plus kit/Temperature and Humidity Control – ZONEBB8KIT01-B

*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.

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

BRYANT ACCESSORIES

313AAV/JAV

DESCRIPTION 313AAV/JAV	PART NO.	024045	048070	048090	060110	060135
Cartridge Media Filter	FILBBCAR0016	X	X			
	FILBBCAR0020			X	X	
	FILBBCAR0024					X
	EXPXXUNV0016	X	X			
EZ Flex Media Filter with End Caps	EXPXXUNV0020			X	X	
	EXPXXUNV0024					X
	EXPXXFIL0016	X	X			
Replacement EZ Flex Filter Media	EXPXXFIL0020			X	X	
	EXPXXFIL0024					X
External Bottom Return	KGAFR0401B14	X				
	KGAFR0501B17		X			
Filter Rack	KGAFR0601B21			X	X	
	KGAFR0701B24					X
External Side Return Filter Rack	KGAFR0801SRE	X	X	X	X	X
Unframed Filter 3/4-in. (19 mm)	KGAWF1301UFR †	S	S			
	KGAWF1401UFR			S	S	
	KGAWF1501UFR					S
	KGAWF1306UFR †	X	X			
	KGAWF1406UFR			X	X	
	KGAWF1506UFR					X
Flue Extension	KGAFE0112UPH	X	X	X	X	X
Combustible Floor Base	KGASB0201ALL	X	X	X	X	X
Downflow Vent Guard	KGAVG0101DFG	X	X	X	X	X
Vent Extension Kit	KGAVE0101DNH	X	X	X	X	X
Chimney Adapter Kit	KGACA02014FC	X	X	X	X	
Chimney Adapter Kit	KGACA02015FC					X
Natural-to-Propane Conversion Kit*	KGANP4601ALL	X	X	X	X	X
Propane-to-Natural Conversion Kit*	KGAPN3901ALL	X	X	X	X	X
Label Kit	KGALB0101KIT	X	X	X	X	X
Air Leakage Kit (Qty 10)	KGBAC0110DGK	X	X	X	X	X
Air Leakage Kit (Qty 10)	KGBAC0110DGK	X	X	X	X	X
Gas Orifice Kit (Qty 50)	KGAHA0150N42	See Installation Instructions for model, altitude, and heat value usages.				
	KGAHA0250N43 (factory supplied)					
	KGAHA0350N44					
	KGAHA0450N45					
	KGAHA0550N46					
	KGAHA1550N47					
	KGAHA1650N48					
	KGAHA0650P54					
	KGAHA0750P55					
	KGAHA0850P56					
	KGAHA5750125					
KGAHA5750130						

*Factory-authorized and field-installed. Gas conversion kits are CSA (AGA/CGA) recognized.

†Suitable for Side Return Filter Rack (KGAFR0801SRE)

X - Accessory

S - Standard

PHYSICAL DATA

UNIT SIZE		024045	048070	048090	060110	060135
OUTPUT CAPACITY BTUH (Non-weatherized ICS)	313JAV Upflow; all 313AAV	36,000	53,000	72,000	90,000	107,000
	313JAV Downflow/Horizontal	34,000	51,000	69,000	86,000	102,000
INPUT BTUH	313JAV Upflow; all 313AAV	44,000	66,000	88,000	110,000	132,000
	313JAV Downflow/Horizontal	42,000	63,000	84,000	105,000	126,000
AFUE%	Non-weatherized ICS	80.0	80.0	80.0	80.0	80.0
SHIPPING WEIGHT LB. (KG)		104 (47)	126 (57)	140 (64)	152 (69)	163 (74)
CERTIFIED TEMP RISE RANGE °F (°C)		30-60 (17-33)	25-55 (14-31)	35-65 (19-36)	30-60 (17-33)	40-70 (22-39)
CERTIFIED EXT STATIC PRESSURE (IN. WC)	Heating	0.10	0.12	0.15	0.20	0.20
	Cooling	0.50	0.50	0.50	0.50	0.50
AIRFLOW CFM	Heating	735	1230	1345	1890	1865
	Cooling	1035	1460	1665	2040	2070
LIMIT CONTROL		SPST				
HEATING BLOWER CONTROL		Solid-State Time Operation				
BURNERS (Monoport)		2	3	4	5	6
GAS CONNECTION SIZE		1/2-in. NPT				
GAS VALVE(Redundant) Manufacturer		White-Rodgers				
Minimum Inlet Pressure (in. wc)		4.5 (Natural Gas)				
Maximum Inlet Pressure (in. wc)		13.6 (Natural Gas)				
IGNITION DEVICE		Hot Surface				

Gas input ratings are certified for elevations to 2000 ft. (610 M). In USA, For elevations above 2000 ft. (610 M), reduce ratings 4 percent for each 1000 ft. (305 M) above sea level. In Canada, derate the unit 10 percent for elevations 2000 to 4500 ft. (610 - 1372 M) above sea level. Refer to National Fuel Gas Code NFPA 54/ANSI Z223.1-2006 Table F.1 (d) or furnace Installation Instructions.

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

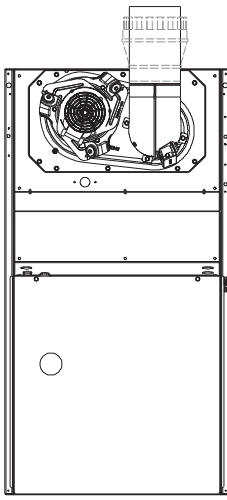
‡Airflow shown is for bottom only return-air supply. For air delivery above 1800 CFM, see Air Delivery Table for other options. A filter is required for each return-air supply. An airflow reduction of up to 7 percent may occur when using a Bryant 4-5/16 in. (110 mm) high efficiency media filter.

ICS - Isolated Combustion System

BLOWER PERFORMANCE DATA

UNIT SIZE	024045	048070	048090	060110	060135
DIRECT-DRIVE MOTOR Hp (ECM - 5 Speed)	1/2	3/4	3/4	1	1
MOTOR FULL LOAD AMPS	6.8	8.4	8.4	10.9	10.9
RPM (Nominal) - SPEEDS	1050-5	1050-5	1050-5	1050-5	1050-5
BLOWER WHEEL DIAMETER x WIDTHS - IN (MM)	10 x 6 (254 x 152)	11 x 8 (279 x 203)	10X10 (254 x 254)	11 x 11 (279 x 279)	11 x 11 (279 x 279)

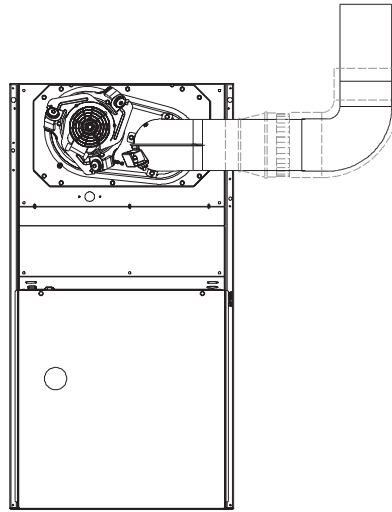
313AAV/JAV



SEE NOTES: 1,2,4,7,8,9

UPFLOW

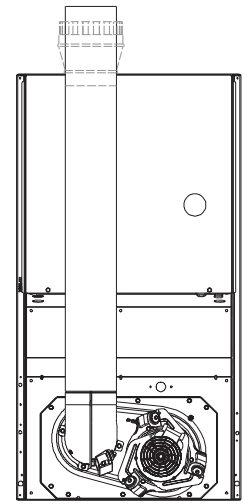
A02058



SEE NOTES: 1,2,3,4,7,8,9

UPFLOW

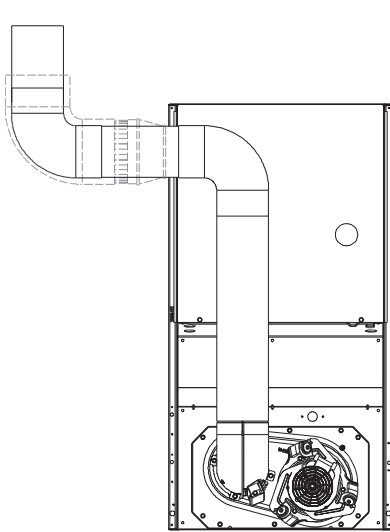
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SEE NOTES: 1,2,4,5,7,8,9

DOWNFLOW

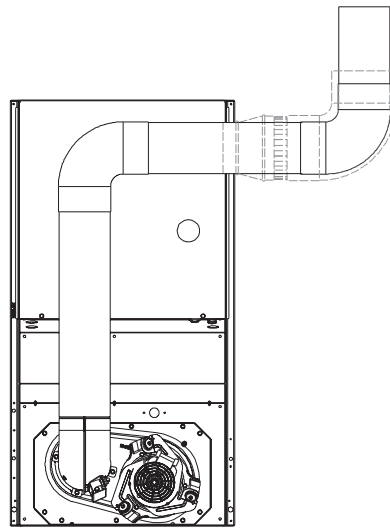
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SEE NOTES: 1,2,3,4,5,7,8,9

DOWNFLOW

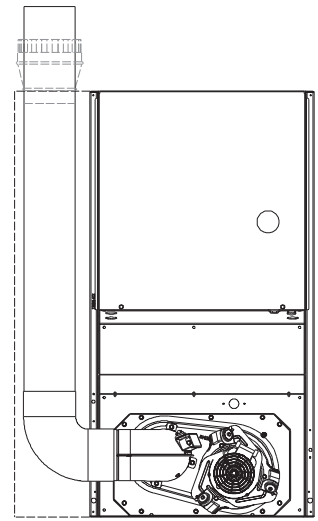
A02060



SEE NOTES: 1,2,3,4,7,8,9

DOWNFLOW

A02063



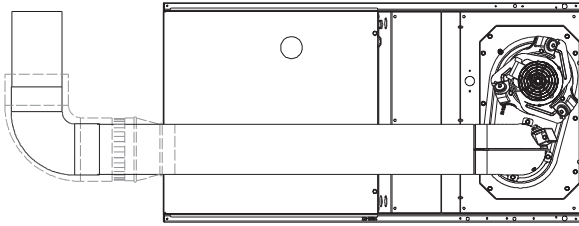
SEE NOTES: 1,2,4,5,6,7,8,9

DOWNFLOW

A02062

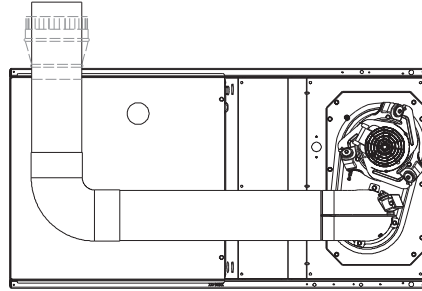
Venting Notes

1. For common vent, vent connector sizing and vent material: United States, latest edition of the National Fuel Gas Code (NFPA54/ANSI Z223.1. In Canada, latest edition of the National Standards of Canada, Natural Gas and Propane Installation Code (NSCNGPIC), CSA B149.1.
2. Immediately increase to 5-in. (127 mm) vent connector outside furnace casing when 5-in. (127 mm) vent connector required, refer to Note 1.
3. Side outlet vent for upflow and downflow installations must use Type B vent immediately after exiting the furnace, except when KGAVG0101DFG is used in downflow position.
4. Type B vent where required, refer to Note 1.
5. 4-in. (102 mm) single wall vent must be used inside furnace casing and the KGAVG0101DFG Downflow Vent Guard Kit.
6. Accessory Downflow Vent Guard Kit, KGAVG0101DFG required in downflow installations with bottom vent configuration.
7. Chimney Adapter Kit required for exterior masonry chimney applications. Refer to Chimney Adapter Kit, KGACA02014FC and KGACA02015FC for sizing and complete application details.
8. Secure vent connector to furnace elbow with (2) corrosion-resistant sheet metal screws, space approximately 180° apart.
9. 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.



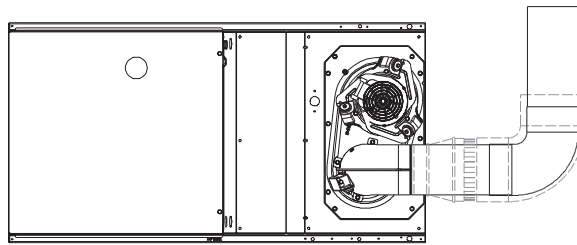
SEE NOTES: 1,2,4,5,7,8,9
HORIZONTAL RIGHT

A02068



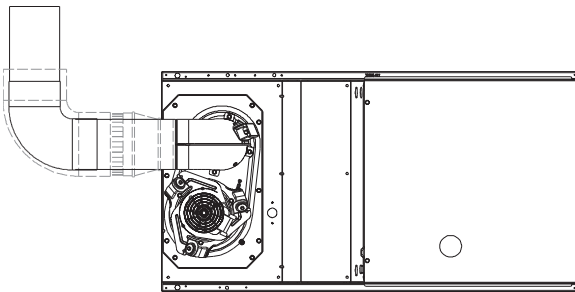
SEE NOTES: 1,2,4,5,7,8,9
HORIZONTAL RIGHT

A02070



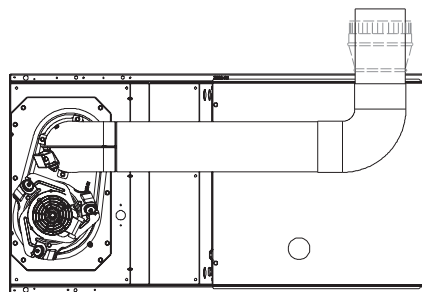
SEE NOTES: 1,2,4,7,8,9
HORIZONTAL RIGHT

A02069



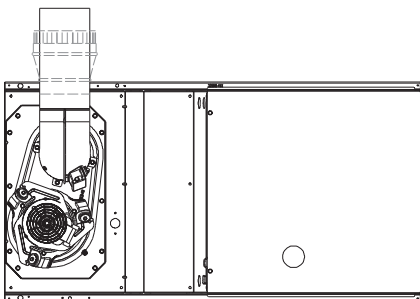
SEE NOTES: 1,2,4,7,8,9
HORIZONTAL LEFT

A02064



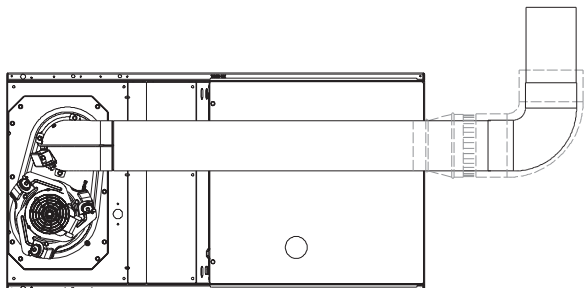
SEE NOTES: 1,2,4,5,7,8,9
HORIZONTAL LEFT

A02065



SEE NOTES: 1,2,4,5,7,8,9
HORIZONTAL LEFT

A02066



SEE NOTES: 1,2,4,5,7,8,9
HORIZONTAL LEFT

A02067

AIR DELIVERY - CFM (WITH FILTER)*

313AAV/JAV

UNIT SIZE	RETURN-AIR SUPPLY	SPEED	EXTERNAL STATIC PRESSURE (in. wc)									
			0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
024045	Bottom or Side(s)	5	1185	1145	1115	1075	1035	980	905	820	720	580
		4	920	880	835	800	755	720	680	645	605	540
		3	735	685	625	585	530	490	435	395	345	295
		2	820	765	725	670	630	580	545	490	455	405
		1	650	595	535	490	430	390	330	280	235	--
048070	Bottom or Side(s)	5	1625	1585	1535	1495	1460	1415	1365	1295	1220	1125
		4	1405	1360	1320	1280	1240	1195	1155	1115	1070	1030
		3	1240	1200	1155	1110	1065	1020	975	935	895	850
		2	1190	1140	1095	1050	1000	955	915	870	830	790
		1	1035	985	930	885	835	785	745	695	650	600
048090	Bottom or Side(s)	5	1845	1800	1755	1710	1665	1595	1500	1400	1275	1105
		4	1590	1545	1500	1455	1410	1365	1315	1270	1180	1000
		3	1365	1320	1270	1215	1170	1125	1070	1025	955	900
		2	1225	1160	1110	1060	1010	950	895	830	770	710
		1	1100	1030	960	875	805	730	645	570	505	425
060110	Bottom or Side(s)	5	2255	2205	2150	2100	2040	1985	1920	1835	1735	1615
		4	1600	1525	1465	1400	1335	1275	1210	1150	1080	1015
		3	1945	1890	1830	1770	1715	1655	1600	1545	1480	1430
		2	1420	1340	1280	1200	1140	1065	1005	925	865	790
		1	1280	1205	1140	1055	990	910	840	760	695	630
060135	Bottom or Side(s)	5	2295	2240	2185	2125	2070	2005	1925	1805	1670	1545
		4	1725	1660	1605	1545	1460	1395	1340	1285	1230	1170
		3	1910	1865	1800	1745	1685	1610	1545	1485	1435	1380
		2	1630	1575	1510	1435	1365	1300	1245	1185	1130	1065
		1	1430	1355	1285	1200	1125	1075	1015	945	855	800

*A filter is required for each return-air inlet. Airflow performance included 3/4-in. (19 mm) washable filter media such as contained in factory-authorized accessory filter rack. To determine airflow performance without this filter, assume an additional 0.1 in. wc available external static pressure.

-- Indicates unstable operating conditions.

ELECTRICAL DATA

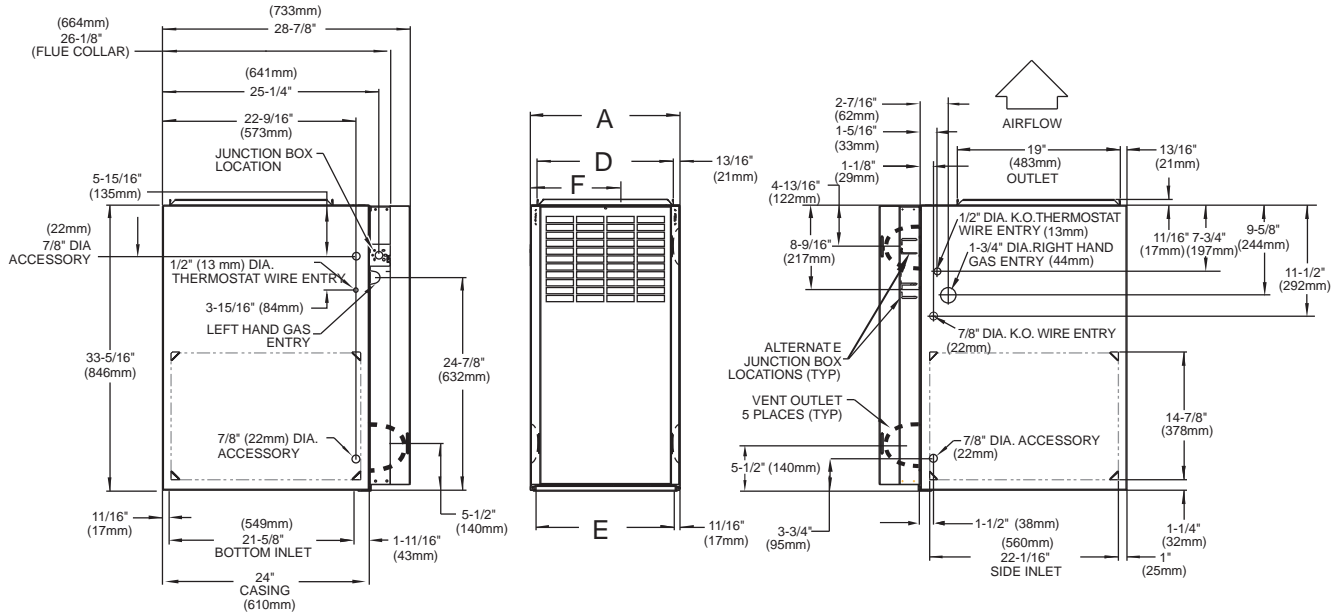
313AAV/JAV UNIT SIZE	VOLTS-HERTZ-PHASE	OPERATING VOLTAGE RANGE*		MAXIMUM UNIT AMPS	MAXIMUM WIRE LENGTH FT (M)‡	MAXIMUM FUSE OR CKT BKR AMPS†	MINIMUM WIRE GAGE
		Maximum	Minimum				
024045	115-60-1	127	104	8.1	34 (10)	15	14
048070	115-60-1	127	104	9.5	29 (9)	15	14
048090	115-60-1	127	104	10.3	27 (8)	15	14
060110	115-60-1	127	104	13.1	34 (10)	20	12
060135	115-60-1	127	104	13.1	34 (10)	20	12

* Permissible limits of the voltage range at which the unit operates satisfactorily.

† Time-delay type is recommended.

‡Length shown is as measured 1 way along wire path between unit and service panel for maximum 2 percent voltage drop.

DIMENSIONS



313AAV/JAV

A04037

1. Two additional 7/8-in. (22 mm) dia. knockouts 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.
3. Minimum return-air opening at furnace.
 - 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 19-1/3 in. (368 x 491 mm) rectangle.
 - c. For 1600 CFM-22-in. (559 mm) round or 14-1/2 x 22-1/16-in. (368 x 560 mm) 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 of single side inlets. The use of both side inlets, a combination of one side and the bottom, or the bottom only will ensure adequate return air openings for airflow requirements above 1800 CFM.

313AAV/JAV UNIT SIZE	A CABINET WIDTH IN (MM)	D SUPPLY WIDTH IN (MM)	E BOTTOM RETURN WIDTH IN (MM)	F TOP VENT OUTLET IN (MM)	VENT CONNECTION SIZE (see Notes 1 & 2)	MEDIA CABINET SIZE IN (MM)
024045	14-3/16 (360)	12-9/16 (319)	12-11/16 (322)	9-5/16 (237)	4	16 (406)
048070	17-1/2 (445)	15-7/8 (403)	16-1/8 (410)	11-9/16 (294)	4	16 (406)
048090	21 (533)	19-3/8 (492)	19-1/2 (495)	13-5/16 (338)	4	20 (508)
060110	21 (533)	19-3/8 (492)	19-1/2 (495)	13-5/16 (338)	4	20 (508)
060135	24-1/2 (622)	22-7/8 (581)	23 (584)	15-1/16 (383)	4 (Note 1)	24 (610)

1. 135 size furnaces require 5-in. (127 mm) vents. Use a 4-5 in. (102-127 mm) vent adaptor between furnace and vent stack.
2. See installation instructions for complete installation requirements.

313AAV/JAV

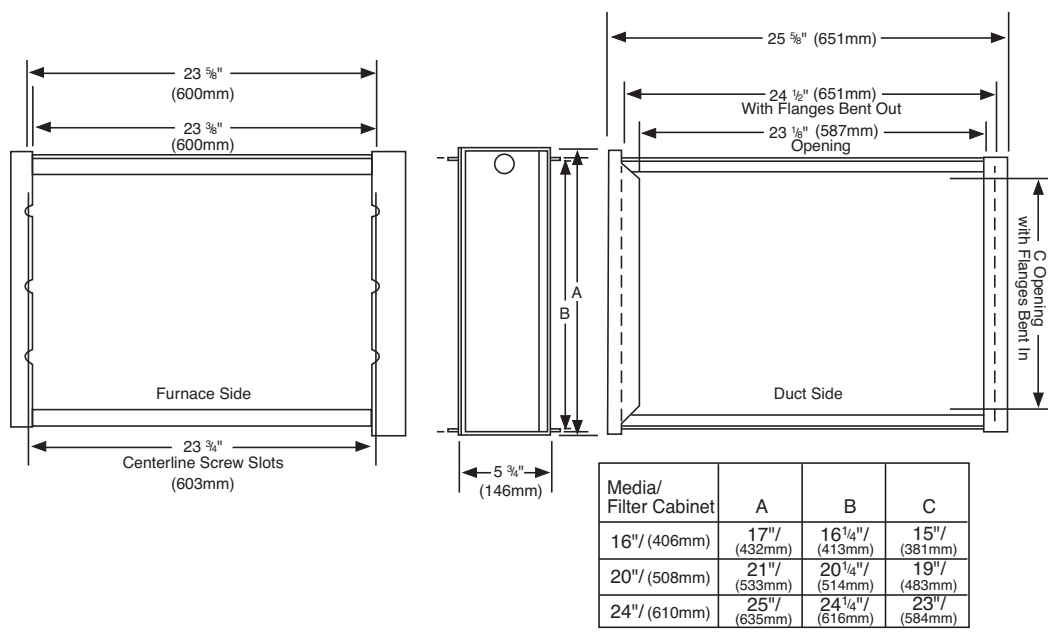
⚠ WARNING ⚠ AVERTISSEMENT FIRE, EXPLOSION, ASPHYXIATION HAZARD RISQUE D'INCENDIE, D'EXPLOSION ET ASPHYXIE	INSTALLATION
<p>Improper adjustment, alteration, service, maintenance, or installation can cause serious injury or death.</p> <p>Read and follow instructions and precautions in User's Information Manual provided with this furnace. Installation and service must be performed by a qualified service agency or the gas supplier.</p> <p>Une réglage, une modification, un réparation, un entretien ou une installation incorrecte peut entraîner des blessures graves ou la mort.</p> <p>Suivre les instructions et les consignes qui figurent dans la notice d'utilisation qui accompagne ce générateur d'air chaud. L'installation et l'entretien doivent être effectués par un réparateur qualifié ou par le fournisseur de gaz.</p>	<p>MINIMUM INCHES CLEARANCE TO COMBUSTIBLE CONSTRUCTION DISTANCE MINIMALE EN POUCES AUX CONSTRUCTIONS COMBUSTIBLES</p> <p>This forced air furnace is equipped for use with natural gas at altitudes 0-10,000 ft (0-3,050m). An accessory kit supplied by the manufacturer shall be used to convert to propane gas use or may be required for some natural gas applications.</p> <p>This furnace is for indoor installation in a building constructed on site.</p> <p>This furnace may be installed on combustible flooring in alcove or closet at minimum clearance as indicated by the diagram from combustible material.</p> <p>This furnace may be used with a Type B-1 Vent and may be vented in common with other gas fired appliances.</p> <p>Cette fournaise à air pulsé est équipée pour utilisation avec gaz naturel et altitudes comprises entre 0-3,050m (0-10,000 pi). Utiliser une trousse de conversion, fournie par le fabricant, pour passer au gaz propane ou pour certaines installations au gaz naturel.</p> <p>Cette fournaise est prévue pour être installée dans un bâtiment construit sur place. Cette fournaise peut être installée sur un plancher combustible dans une alcôve ou dans un garde-robe en respectant le minimum d'espace libre des matériaux combustibles, tel qu'indiqué sur le diagramme.</p> <p>Cette fournaise peut être utilisée avec un conduit d'évacuation de Type B-1 ou connectée au conduit commun d'autres appareils à gaz.</p>
⚠ CAUTION ⚠ MISE EN GARDE	<p>Clearance arrows do not change with furnace orientation.</p> <p>Les flèches de dégagement ne change pas avec l'orientation de la fournaise.</p> <p>Vent Clearance to combustibles: For Single Wall vents 6 inches (6 po). For Type B-1 vent type 1 inch (1 po). Dégagement de l'évent avec combustibles: Pour conduit d'évacuation à paroi simple 6 po (6 inches). Pour conduit d'évacuation de Type B-1 po (1 inch).</p>
INSTALLATION	MINIMUM INCHES CLEARANCE TO COMBUSTIBLE CONSTRUCTION
<p>1. This furnace must be installed in accordance with the manufacturer's instructions and local codes. In the absence of local codes, follow the National Fuel Gas Code ANSI Z223.1 / NFPA54 or CSA B-149, 1 Gas Installation Code.</p> <p>Ce fournaise à air chaud doit être installée conformément aux instructions du fabricant et aux codes locaux. En l'absence de ces derniers, la norme ANSI Z223.1/NFPA54 intitulée National Fuel Gas Code ou les codes d'installation CSA B149.1.</p> <p>2. This furnace must be installed so there are provisions for combustion and ventilation air. See manufacturer's installation information provided with this appliance.</p> <p>Ce fournaise à air chaud doit être installée de manière à ce qu'il y ait suffisamment d'air de ventilation et combustion. Consulter les instructions d'installation du fabricant fournies avec cet appareil.</p>	<p>DOWNFLOW POSITIONS:</p> <p>† Installation on non-combustible floors only.</p> <p>‡ For installation on combustible flooring only when installed on special base, Part No. KGASB0201ALL or NAHA01101SB, Coil Assembly, Part No. CAR, CAP, CNPV, CNRV, WENC or WTNC.</p> <p>⊘ 18 inches front clearance required for alcove.</p> <p>* Indicates supply or return sides when furnace is in the horizontal position. Line contact only permissible between lines formed by intersections of the Top and two Sides of the furnace jacket, and building joists, studs or framing.</p>
OPERATION	DÉGAGEMENT MINIMUM EN POUCES AVEC ÉLÉMENTS DE CONSTRUCTION COMBUSTIBLES
<p>This furnace is equipped with manual reset limit switch(es) in burner compartment to protect against overheat conditions that can result from inadequate combustion air supply or blocked vent conditions.</p> <p>1. Do not bypass limit switches.</p> <p>2. If a limit opens, call a qualified serviceman to correct the condition and reset limit switch.</p>	<p>POUR LA POSITION COURANT DESCENDANT:</p> <p>† Pour l'installation sur plancher non combustible seulement.</p> <p>‡ Pour l'installation sur un plancher combustible seulement quand on utilise la base spéciale, pièce n° KGASB0201ALL ou NAHA01101SB, l'ensemble serpentin, pièce n° CAR, CAP, CNPV, CNRV, WENC ou WTNC, ou le carter de serpentin.</p> <p>⊘ Dans une alcôve, on doit maintenir un dégagement à l'avant de 18 po (450mm).</p> <p>* La position indiquée concerne le côté d'entrée ou de retour quand la fournaise est dans la position horizontale.</p> <p>Le contact n'est permis qu'entre les lignes formées par les intersections du dessus et des deux côtés de la chemise de la fournaise et les solives, montant sous cadre de charpente.</p> <p style="text-align: right;">335137-101 REV. A</p>

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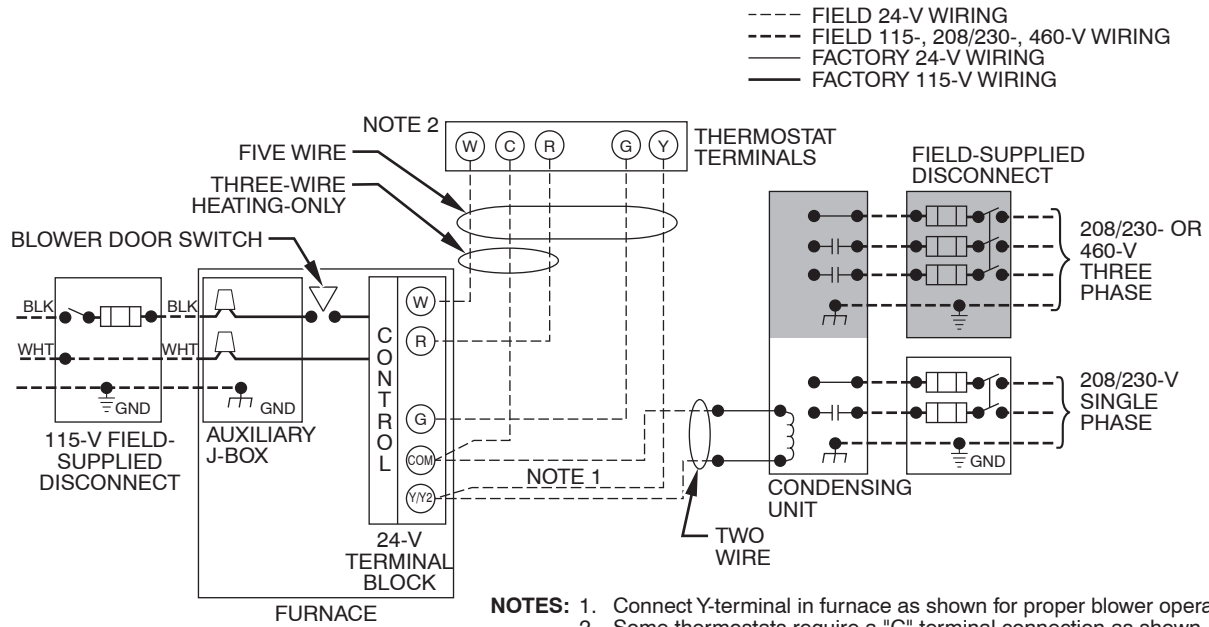
MEETS DOE RESIDENTIAL CONSERVATION SERVICES PROGRAM STANDARDS.

Before purchasing this appliance, read important energy cost and efficiency information available from your retailer.



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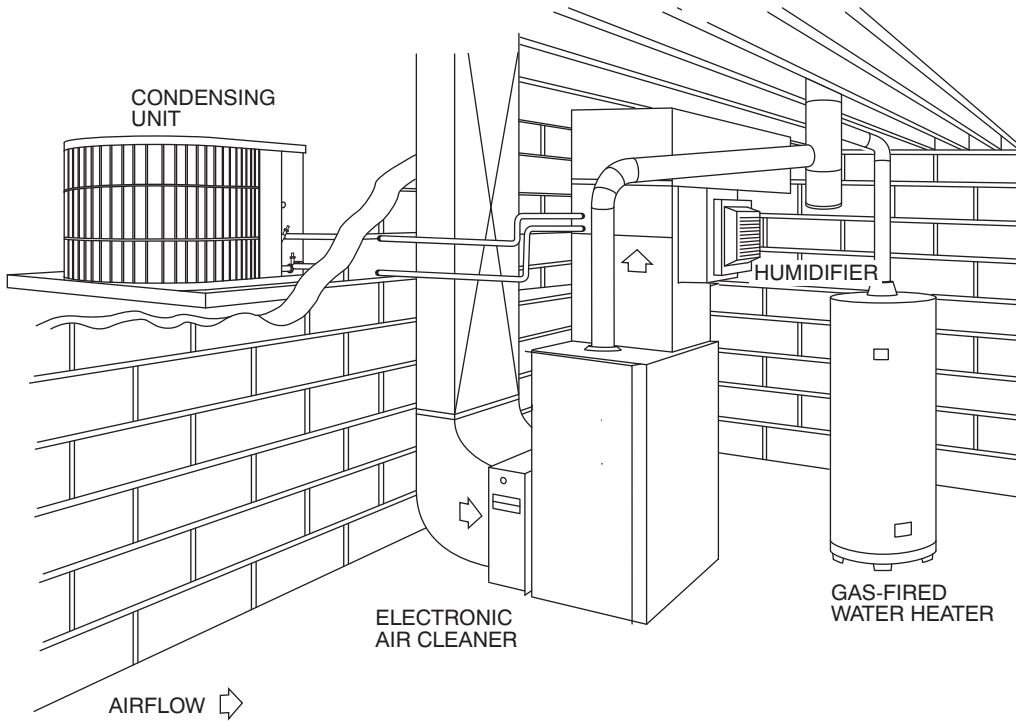
TYPICAL WIRING SCHEMATIC



313AAV/JAV

A99440

TYPICAL INSTALLATION



A08177

GUIDE SPECIFICATIONS

Gas Furnace 313AAV/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; furnish external medial 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 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® 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 GAMA Consumer's Directory of Certified Efficiency Ratings.

Unit will 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. and Canada 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.

Filters

Furnace may have reusable-type filters. Filter shall be _____ in (x) _____in. (mm). An accessory high efficiency Media Filter is available as an option. _____ Media Filter.

Casing

Casing shall be of .030 in. (.76 mm) thickness minimum, pre-painted galvanized 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 diagnostic flashing LED 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 heating, cooling and continuous fan. Continuous fan speed may be adjusted from the thermostat. Features will also include temporary reduced airflow in the cooling mode for improved dehumidification when a Thermidistat™ Control is selected as the thermostat.

Operating Characteristics

Heating Capacity shall be _____ Btuh input; _____ Btuh output capacity.

Fuel Gas Efficiency shall be 80% AFUE.

Air delivery shall be _____ CFM minimum at 0.50 in. wc external static pressure.

Dimensions shall be: depth _____ in.; width _____ in.; 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.

313AAV/JAV

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