

315AAV/315JAV

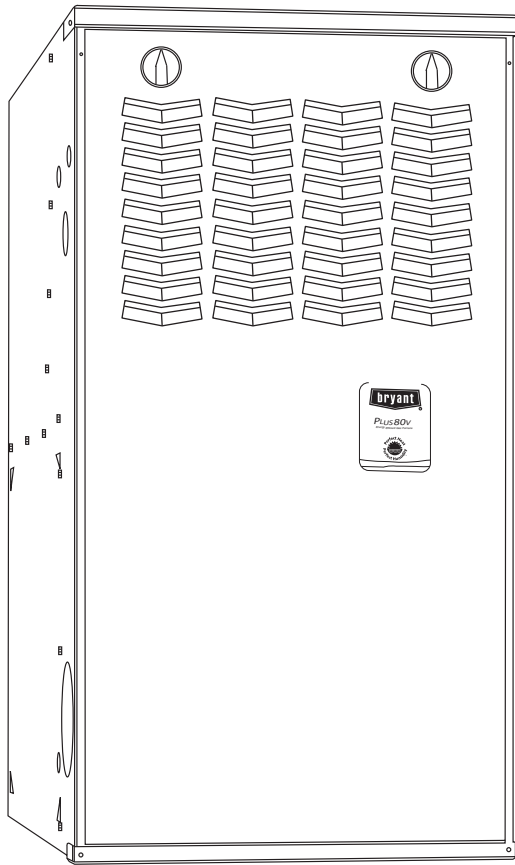
Variable-Speed 4-Way Multipoise Induced Combustion Gas Furnace

Sizes 070 thru 155

Series G



Product Data



A10255

The Plus 80V Variable-Speed 4-Way Multipoise Gas Furnace offers outstanding comfort and electrical efficiency in an 80% AFUE furnace. You get all of the benefits of Perfect Heat™ and Perfect Humidity™: reduced drafts, reduced sound levels, longer, more gentle cycles, and less temperature differences between rooms. Also, it improves indoor air quality, plus provides outstanding electrical efficiency all year long: Homeowners can now economically run constant fan to help eliminate temperature differences throughout the house and to get better indoor air quality. This Perfect Humidity furnace also increases comfort in the summer by wringing out extra humidity. The 315AAV/JAV furnaces are approved for use with natural or propane gas, and the 315JAV is approved for use in Low NOx Air Management Districts.

Bryant Evolution® System When this Plus 80V gas furnace is matched with the Evolution Control and an air conditioner or heat pump, you will experience the ultimate in Perfect Heat and Perfect Humidity through unmatched control of temperature, humidity, indoor air quality, and zoning. The Bryant Evolution System also allows for worry-free operation through on-screen, text-based service reminders and equipment malfunction alerts.

For even greater comfort and convenience, match the Plus 80V furnace with a two-speed Puron air conditioner or heat pump. This

will create a fully communicating system, requiring only 4 thermostat wires between system components, and troubleshooting can even be done from the outdoor unit without entering the home. Optional remote access through telephone or Internet is also available when combined with a remote connectivity kit.

STANDARD FEATURES

- **Evolution™ System-match with the Evolution™ Control for Evolution™ System benefits**
- **Perfect Heat, Perfect Humidity™ operation**
Including Super-dehumidify mode for maximum humidity control
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
- **SmartEvap™ 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™* - Continuous Fan speed adjustable from thermostat
Adjustable heating air temperature rise
Adapts heating stages to meet demand
Up to 12 cooling airflow selections with a wide range of capability
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® 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**

CLEARANCE TO COMBUSTIBLES

⚠ WARNING FIRE, EXPLOSION, ASPHYXIATION HAZARD

Improper adjustment, alteration, service, maintenance, or installation can cause serious injury or death.

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.

⚠ CAUTION

Check entire gas assembly for leaks after lighting this appliance.

INSTALLATION

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.
2. This furnace must be installed so there are provisions for combustion and ventilation air. See manufacturer's installation information provided with this appliance.

OPERATION

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.

1. Do not bypass limit switches.
2. If a limit opens, call a qualified serviceman to correct the condition and reset limit switch.

INSTALLATION

MINIMUM INCHES CLEARANCE TO COMBUSTIBLE CONSTRUCTION

This forced air furnace is equipped for use with natural gas at altitudes 0 - 10,000 ft (0 - 3,050m).

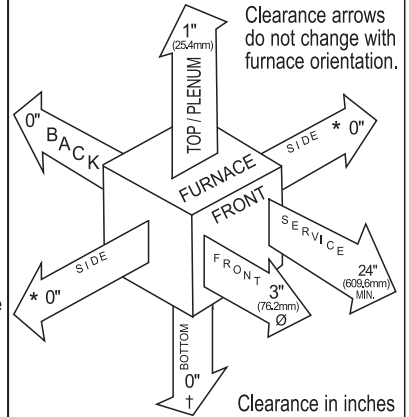
An accessory kit, supplied by the manufacturer, shall be used to convert to propane gas use or may be required for some natural gas applications.

This furnace is for indoor installation in a building constructed on site.

This furnace may be installed on combustible flooring in alcove or closet at minimum clearance as indicated by the diagram from combustible material.

This furnace may be used with a Type B-1 Vent and may be vented in common with other gas fired appliances.

This furnace is approved for UPFLOW, DOWNFLOW, and HORIZONTAL installations.



Vent Clearance to combustibles:
For Single Wall vents 6 inches (6 po).
For Type B-1 vent type 1 inch (1 po).

MINIMUM INCHES CLEARANCE TO COMBUSTIBLE CONSTRUCTION

DOWNFLOW POSITIONS:

- † Installation on non-combustible floors only.
For Installation on combustible flooring only when installed on special base, Part No. KGASB0201ALL or NAHA01101SB, Coil Assembly, Part No. CAR, CAP, CNPV, CNRV, END4X, ENW4X, WENC, WTNC, WENW OR WTNW.
- Ø 18 inches front clearance required for alcove.
- * 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.



336996-101 REV. C

315AAV/JAV

A10269



ISO 9001
QMI-SAI Global



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



Always Ask For
**FACTORY
AUTHORIZED
PARTS**

SPECIFICATIONS

315AAV/JAV

UNIT SIZE		036070	048090	060110	066135	066155	
RATINGS AND PERFORMANCE							
Input Btuh* Non-weatherized ICS	315JAV Upflow; all 315AAV	High	66,000	88,000	110,000	132,000	154,000
		Low	43,500	58,000	72,500	87,000	101,500
	315JAV Downflow/Horizontal	High	63,000	84,000	105,000	126,000	147,000
		Low	43,500	58,000	72,500	87,000	101,500
Output Capacity (Btuh)† Non-weatherized ICS	315JAV Upflow; all 315AAV	High	54,000	71,000	89,000	107,000	125,000
		Low	35,000	47,000	59,000	70,000	82,000
	315JAV Downflow/Horizontal	High	51,000	68,000	85,000	102,000	119,000
		Low	35,000	47,000	59,000	70,000	82,000
AFUE†			80.0	80.0	80.0	80.0	80.0
Certified Temperature Rise Range – °F (°C)		High	30-60 (17–33)	40-70 (22–39)	40-70 (22–39)	40-70 (22–39)	45-75 (25–42)
		Low	30-60 (17–33)	30-60 (17–33)	25-55 (14–30)	25-55 (14–30)	30-60 (17–33)
Certified External Static Pressure		Heat/Cool	0.12/0.50	0.15/0.50	0.20/0.50	0.20/0.50	0.20/0.50
Airflow CFM‡		Heating High/Low	1060/615	1090/825	1330/1110	1725/1430	1775/1440
		Cooling	1225	1400	2090	2100	2095
ELECTRICAL							
Unit Volts-Hertz-Phase		115-60-1					
Operating Voltage Range		Min-Max 104-127					
Maximum Unit Amps		9.0	9.6	15.1	14.9	15.0	
Maximum Wire Length (Measure 1 Way in Ft (M))		30 (9.1)	29 (8.8)	29 (8.8)	30 (9.1)	29 (8.8)	
Minimum Wire Size		14		12			
Maximum Fuse or Ckt Bkr Size (Amps)**		15		20			
Transformer (24v)		40va					
External Control		Heating		12va			
Power Available		Cooling		35va			
Air Conditioning Blower Relay		Standard					
CONTROLS							
Limit Control		SPST					
Heating Blower Control		Solid-State Time Operation					
Burners (Monoport)		3	4	5	6	7	
Gas Connection Size		1/2-in. NPT					
GAS CONTROLS							
Gas Valve (Redundant)	Mfr.	White-Rodgers					
	Min. inlet pressure (In. W.C.)	4.5 (Natural Gas)					
	Max. inlet pressure (In. W.C.)	13.6 (Natural Gas)					
Ignition Device		Hot Surface					
Factory-installed orifice		Size 43					
BLOWER DATA							
Direct-Drive Motor HP (ECM)		1/2	1/2	1	1	1	
Motor Full Load Amps		7.7	7.7	12.8	12.8	12.8	
RPM (Nominal)-Speeds		300-1300	300-1300	300-1300	300-1300	300-1300	
Blower Wheel Diameter x Width – In. (mm)		10 x 6 (254 x 152)	10 x 8 (254 x 203)	11 x 10 (279 x 254)	11 x 11 (279 x 279)	11 x 11 (279 x 279)	

* 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. Refer to National Fuel Gas Code NFPA 54/ANSI Z223.1–2012 Table F.4 or furnace installation instructions.

† Capacity 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

AIR DELIVERY - CFM (With Filter)*

Unit Size	Operating Mode	CFM Airflow Setting	External Static Pressure Range* (In. W.C.)	External Static Pressure (ESP) (IN. W.C.)										
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	
036070													AIRFLOW (CFM)	
††	Low Heat	735 (615)†	0-0.50	735	735	735	735	725						
	High Heat	1180 (1060)†	0-1.0	1160	1165	1175	1180	1180	1180	1180	1180	1180	1175	
††	1-1/2-Ton Cooling	525	0-0.50‡	515	500	500	490	485						
††	2-Ton A/C Cooling	700	0-0.50‡	690	680	675	680	675						
	2-1/2-Ton A/C Cooling	875	0-1.0‡	875	875	875	870	865	855	850	835	825	820	
	3-Ton A/C Cooling	1050	0-1.0‡	1050	1050	1050	1050	1050	1050	1045	1035	1020	1000	
	3-1/2-Ton A/C Cooling	1225	0-1.0	1220	1225	1225	1225	1225	1220	1205	1190	1185	1170	
	Maximum	1400	0-1.0	1395	1400	1400	1400	1395	1385	1370	1340	1300	1245	
048090														
	Low Heat	985 (825)†	0-1.0	950	970	985	985	985	985	985	985	985	980	
	High Heat	1210 (1090)†	0-1.0	1190	1205	1210	1210	1210	1210	1210	1210	1210	1200	
††	1-1/2-Ton A/C Cooling	525	0-0.50‡	525	520	525	495	475						
††	2-Ton A/C Cooling	700	0-0.50‡	680	680	680	675	670						
	2-1/2-Ton A/C Cooling	875	0-1.0‡	815	845	845	855	850	850	845	835	820	805	
	3-Ton A/C Cooling	1050	0-1.0‡	1005	1005	1015	1035	1040	1040	1035	1030	1025	1010	
	3-1/2-Ton A/C Cooling	1225	0-1.0	1190	1200	1200	1205	1205	1215	1205	1200	1185	1170	
	4-Ton A/C Cooling	1400	0-1.0	1350	1370	1390	1390	1400	1390	1380	1380	1360	1340	
	Maximum	1600	0-1.0	1595	1600	1600	1600	1595	1555	1505	1465	1430	1390	
060110***														
	Low Heat	1320 (1110)†	0-1.0	1275	1295	1315	1320	1320	1320	1320	1320	1320	1315	
	High Heat	1475 (1330)†	0-1.0	1460	1465	1475	1475	1475	1475	1475	1475	1465	1465	
††	2-Ton A/C Cooling	700	0-0.50‡	700	700	700	700	700						
††	2-1/2-Ton A/C Cooling	875	0-0.50‡	875	875	875	875	875						
††	3-Ton A/C Cooling	1050	0-0.50‡	1050	1050	1050	1050	1050						
	3-1/2-Ton A/C Cooling	1225	0-1.0‡	1225	1225	1225	1225	1225	1225	1225	1225	1225	1225	
	4-Ton A/C Cooling	1400	0-1.0‡	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400	
	5-Ton A/C Cooling	1750	0-1.0‡	1750	1750	1750	1750	1750	1750	1750	1750	1740	1725	
	6-Ton A/C Cooling	2100	0-1.0	2100	2100	2100	2100	2090	2075	2055	2040	2005	1970	
	Maximum	2200	0-1.0	2200	2190	2190	2180	2155	2145	2125	2100	2080	2020	
066135														
	Low Heat	1700 (1430)†	0-1.0	1700	1700	1700	1700	1700	1695	1700	1695	1685	1670	
	High Heat	1915 (1725)†	0-1.0	1900	1905	1915	1915	1915	1915	1915	1915	1915	1915	
††	2-Ton A/C Cooling	700	0-0.50‡	700	700	700	700	665						
††	2-1/2-Ton A/C Cooling	875	0-0.50‡	870	870	865	865	865						
††	3-Ton A/C Cooling	1050	0-0.50‡	1010	1030	1050	1050	1050						
	3-1/2-Ton A/C Cooling	1225	0-1.0‡	1155	1180	1200	1210	1220	1225	1225	1225	1225	1225	
	4-Ton A/C Cooling	1400	0-1.0‡	1395	1400	1400	1400	1400	1400	1400	1390	1375	1355	
	5-Ton A/C Cooling	1750	0-1.0‡	1740	1750	1750	1750	1735	1740	1735	1730	1715	1700	
	6-Ton A/C Cooling	2100	0-1.0	2075	2085	2090	2100	2100	2100	2090	2080	2055	2025	
	Maximum	2200	0-1.0	2180	2195	2200	2200	2200	2200	2185	2165	2140	2095	
066155														
	Low Heat	1715 (1440)†	0-1.0	1715	1715	1715	1715	1715	1705	1710	1705	1705	1695	
	High Heat	1970 (1775)†	0-1.0	1955	1965	1965	1970	1970	1970	1970	1970	1970	1960	
††	2-Ton A/C Cooling	700	0-0.50‡	700	700	700	700	680						
††	2-1/2-Ton A/C Cooling	875	0-0.50‡	865	875	875	865	865						
††	3-Ton A/C Cooling	1050	0-0.50‡	1015	1020	1035	1045	1050						
	3-1/2-Ton A/C Cooling	1225	0-1.0‡	1160	1185	1215	1225	1225	1225	1225	1225	1225	1225	
	4-Ton A/C Cooling	1400	0-1.0‡	1385	1400	1400	1400	1400	1400	1395	1395	1380	1360	
	5-Ton A/C Cooling	1750	0-1.0‡	1745	1750	1750	1750	1745	1740	1745	1740	1735	1735	
	6-Ton A/C Cooling	2100	0-1.0	2055	2070	2080	2085	2095	2100	2100	2100	2090	2065	
	Maximum	2200	0-1.0	2175	2190	2200	2200	2200	2200	2200	2200	2180	2160	

315AAV/JAV

*Actual external static pressure (ESP) can be determined by using the fan laws (CFM 2 proportional to ESP); such as, a system with 1180 CFM at 0.5 ESP would operate at cooling airflow of 1050 CFM at 0.4 ESP and low-heating airflow of 735 CFM at 0.19 ESP.

†Comfort airflow values are shown in parenthesis. Comfort airflow is selected when the low-heat rise adjustment switch (SW1-3) is OFF and the comfort/efficiency switch (SW1-4) is ON.

‡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.

***All airflow on 110 size furnace are 5% less on side return only installations.

ACCESSORIES

315AAV/JAV

DESCRIPTION	PART NO.	036070	048090	060110	066135	066155
Media Filter Cabinet	FILCABXL0016	X	X			
	FILCABXL0020			X		
	FILCABXL0024				X	X
Cartridge Media Filter	FILBBCAR0016	X	X			
	FILBBCAR0020			X		
	FILBBCAR0024				X	X
EZ Flex Media Filter with End Caps	EXPXXUNV0016	X	X			
	EXPXXUNV0020			X		
	EXPXXUNV0024				X	X
Replacement EZ Flex Filter Media	EXPXFIL0016	X	X			
	EXPXFIL0020			X		
	EXPXFIL0024				X	X
External Bottom Return Filter Rack	KGBFR0401B14	X				
	KGBFR0501B17		X			
	KGBFR0601B21			X		
	KGBFR0701B24				X	X
External Side Return Filter Rack	KGAFR0201ALL	X	X	X	X	X
Unframed Filter, 3/4-in. (19 mm)	KGAWF1306UFR†	X	X			
	KGAWF1406UFR			X		
	KGAWF1506UFR				X	X
Flue Extension	KGAFE0112UPH	X	X	X	X	X
Combustible Floor Base	KGASB0201ALL	X	X	X	X	X
Downflow Vent Guard	KGBVG0101DFG	X	X	X	X	X
Vent Extension Kit	KGAVE0101DNH	X	X	X	X	X
Chimney Adapter Kit	KGACA02014FC	X	X	X		
	KGACA02015FC				X	X
Natural-to-Propane Conversion Kit *	KGBNP5201VSP	X	X	X	X	X
Propane-to-Natural Conversion Kit	KGBPN4401VSP	X	X	X	X	X
Label Kit	KGALB0301KIT	X	X	X	X	X
ECM Motor Simulator	KGBSD0301FMS	X	X	X	X	X
Advanced Product Monitor	KGAFP0301APM	X	X	X	X	X
High Altitude Kit	KGAHA5801PSW	X	X	X	X	X
Gas Orifice	LH32DB207	See Installation Instructions for model, altitude, and heat value usages.				
	LH32DB202					
	LH32DB200					
	LH32DB205					
	LH32DB208					
	LH32DB078					
	LH32DB076					
	LH32DB203					
	LH32DB201					
	LH32DB206					
	LH32DB209					
LH32DB210						
UV Lights	Model UVL					
Heat/Energy Recovery Ventilator	Models HRV or ERV					
Humidifier	Model HUM					
Electronic or Mechanical Air Cleaner	Model EACA or EZXCAB					

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

† Suitable for Side Return Filter Rack.

X = Accessory

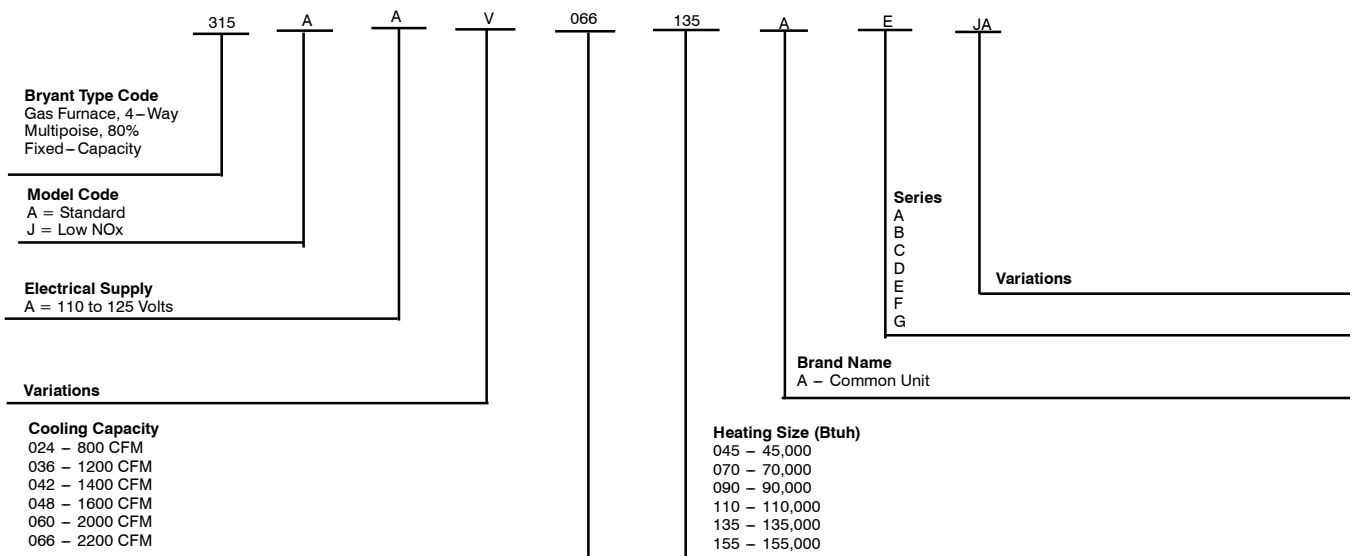
S = Standard

CONTROLS - THERMOSTAT AND ZONING

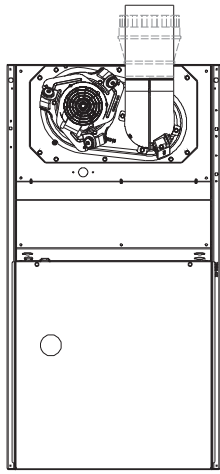
DESCRIPTION	PART NO.
NON-PROGRAMMABLE	
For use with 1-speed Air Conditioner – deg. F/C, Auto Changeover	T6–NAC, T2–NAC
For use with 1-speed Heat Pump – deg. F/C, Auto Changeover	T6–NHP, T2–NHP*
For use with 2-speed Air Conditioner – deg. F/C, Auto Changeover	T6–NRH*
For use with multi-use / stage configurations – deg. F/C, Auto Changeover/Temperature and Humidity Control	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†
ZONING CONTROL SELECTION	
Zone Perfect 3-Zone kit	ZONEBB3ZAC01, ZONEBB3ZHP01
Zone Perfect Plus 2-Zone kit/Temperature and Humidity Control	ZONEBB2KIT01-B
Zone Perfect Plus 4-Zone kit/Temperature and Humidity Control	ZONEBB4KIT01-B
Zone Perfect Plus 8-Zone kit/Temperature and Humidity Control	ZONEBB8KIT01-B
EVOLUTION™ ** CONTROLS	
Evolution™ Control Deluxe 7-Day Programmable (Wall-mounted system control.)	SYSTXBUID01
Evolution™ Control Deluxe Zoning 7-Day Programmable (Wall-mounted control for a multi-zone system.)	SYSTXBUIZ01
Evolution™ 4-Zone Damper Control Module (Wall-mounted control for a four-zone system.)	SYSTXB4ZC02
Evolution™ Smart Sensor (Optional wall control used to monitor temperature and/or fan control in an individual zone.)	SYSTXBBSMS01
Evolution™ Remote Room Sensor (Monitors temperature in an individual zone.)	SYSTXBBRRS01
Evolution™ System Access Module (Hardware for wireless access and control via phone or internet.)	SYSTXBBSAM01
Evolution™ Network Interface Module (Connects Heat Recovery and Energy Recovery Ventilators or older two-speed outdoor models to system.)	SYSTBBNIM01††
Decorative Back Plate for Evolution™ Control (Decorative wall plate.)	SYSTXXBPU01

- * Model HP and 2S thermostat must be field converted to air conditioner operation.
- † Thermostat 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.
- ** When applied with Bryant's Perfect Humidity™ series 355AAV, 315AAV/JAV and FE Indoor Models
- †† Must be installed in Dual-Fuel Evolution system applications.

MODEL NUMBER NOMENCLATURE

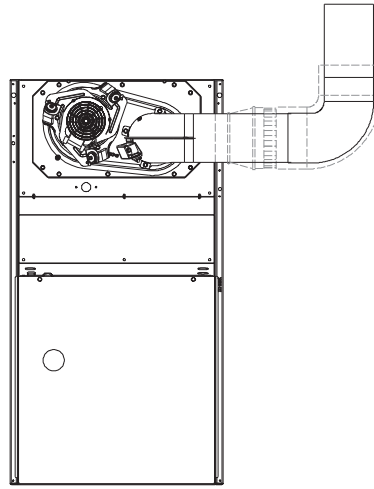


315AAV/JAV



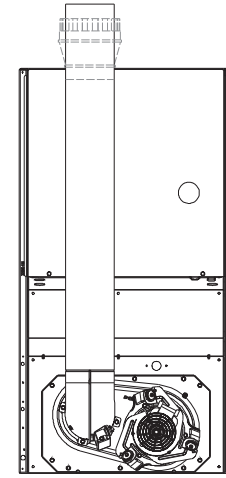
SEE NOTES: 1,2,4,7,8,9
UPFLOW

A02058



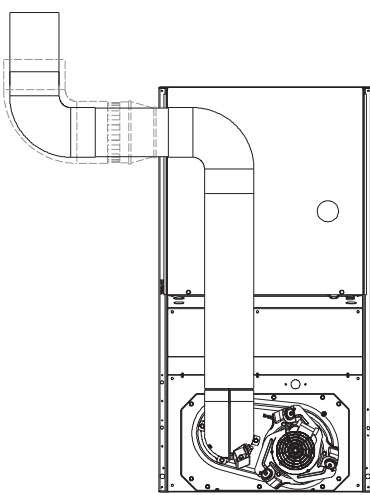
SEE NOTES: 1,2,3,4,7,8,9
UPFLOW

A02059



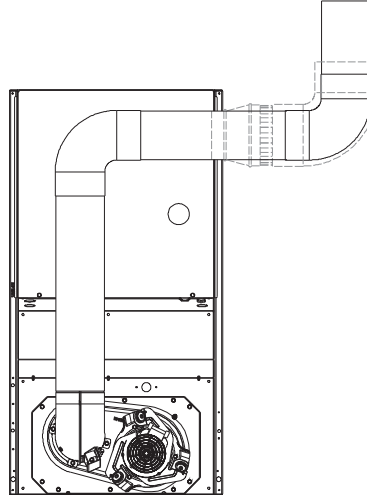
SEE NOTES: 1,2,4,5,7,8,9
DOWNFLOW

A02061



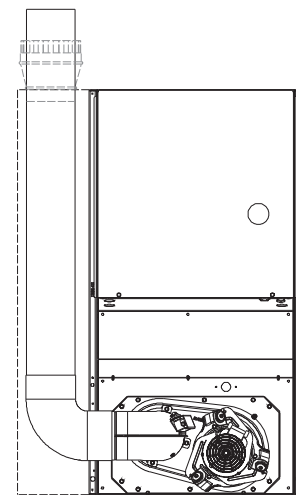
SEE NOTES: 1,2,3,4,5,7,8,9
DOWNFLOW

A02060



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

A02063

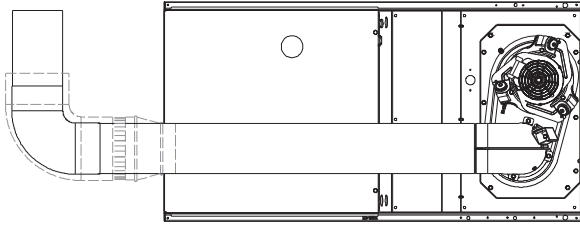


SEE NOTES: 1,2,4,5,6,7,8,9
DOWNFLOW

A02062

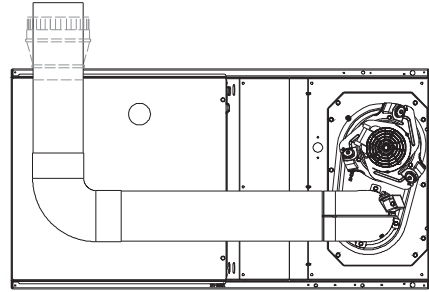
Venting Notes

1. For common vent, vent connector sizing and vent material: United States, latest edition of the National Fuel Gas Code (NFPA), ANSI Z223.1/NFPA 54.
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 Downflow Vent Guard 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 Downflow Vent Guard Kit.
6. Accessory Downflow Vent Guard Kit required in downflow installations with bottom vent configuration.
7. Chimney Adapter Kit required for exterior masonry chimney applications. Refer to Chimney Adapter Kits 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.



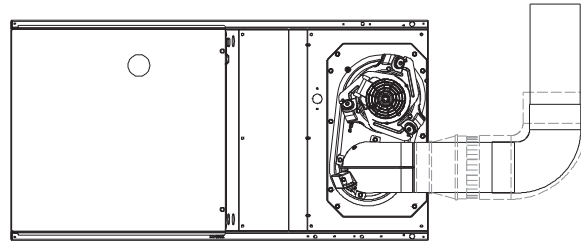
SEE NOTES: 1,2,4,5,7,8,9
HORIZONTAL RIGHT

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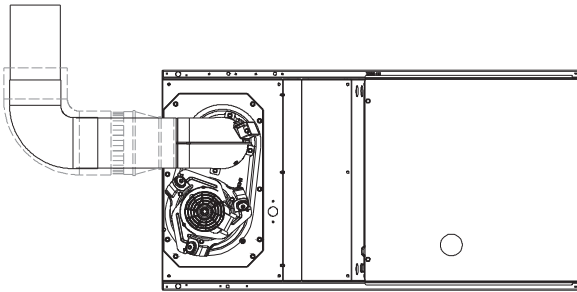
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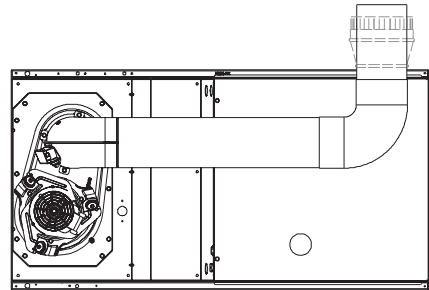
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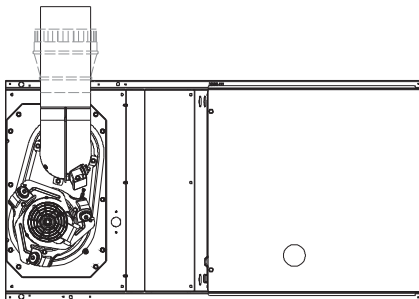
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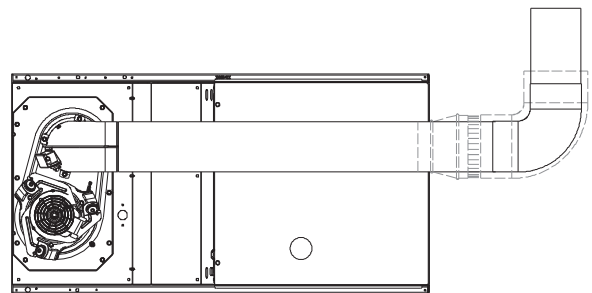
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SEE NOTES: 1,2,4,5,7,8,9
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A02066



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

A02067

315AAV/JAV

GUIDE SPECIFICATIONS

Gas Furnace

315AAV/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).

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. Variable-speed ECM blower motor 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. (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 an Evolution™ Control or Thermidistat® 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. W.C. external static pressure.

Dimensions shall be: depth _____ in. (mm); width _____ in. (mm); height _____ in. (mm) (casing only). Height shall be _____ in. (mm) with A/C coil and _____ in. (mm) overall with plenum.

ELECTRICAL REQUIREMENTS

Electrical supply shall be 115 volts, 60 Hz, single-phase (nominal). Minimum wire size shall be _____ AWG; maximum fuse size 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.