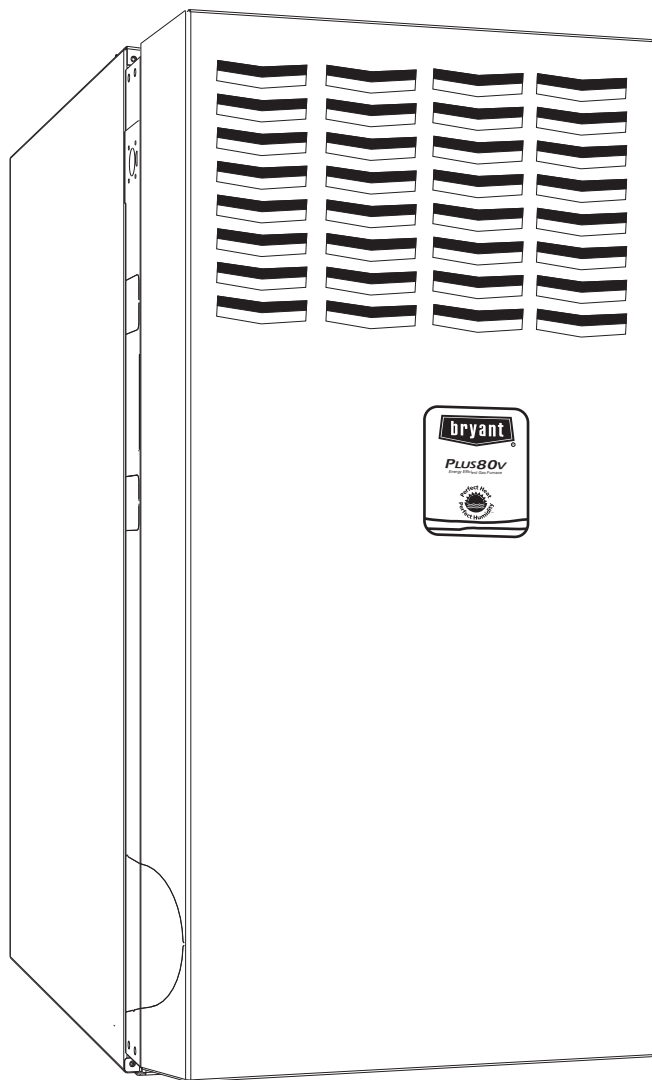




Variable Speed
4-Way Multipoise
Induced Combustion
Gas Furnace

315AAV/315JAV

Sizes 045 thru 155
Series A



A01480



**MEETS DOE RESIDENTIAL CONSERVATION
SERVICES PROGRAM STANDARDS.**

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

The **315AAV/JAV 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.

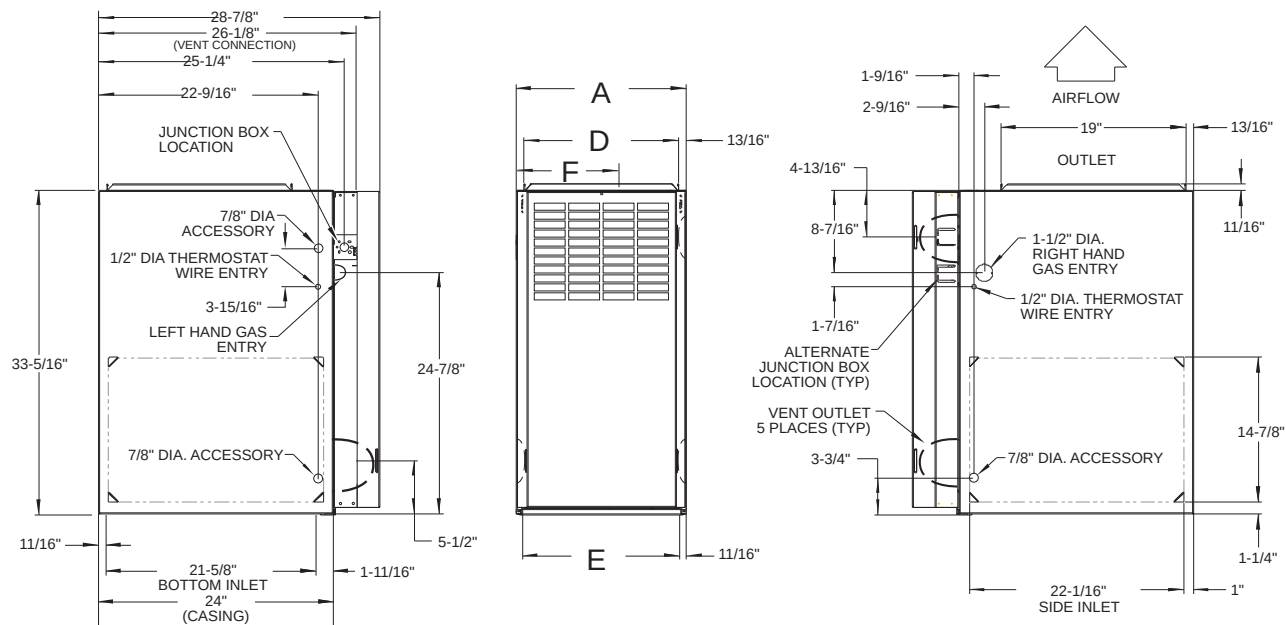
STANDARD FEATURES

- **Perfect Heat, Perfect Humidity operation**
 - Two-stage heating
 - Reduced operating sound through low-stage operation and sound elimination combustion system
 - Variable-speed blower motor
 - Super-low electrical use, up to 80% less than standard models
 - Increased SEER ratings for AC and HP systems
 - Matches CFM to cooling system at all static points
 - Provides full Perfect Heat/Perfect Humidity benefits including "Super Dehumidify"
- **Four-position furnace: upflow, horizontal right, horizontal left, downflow**
 - Thirteen different vent options
- **Shorter in height - only 33¹/₃" tall**
- **Media Filter Cabinet included**
- **Microprocessor based "smart" control center**
 - Adapts heating stages to meet demand
 - Continuous Fan speed adjustable from thermostat
 - Adjustable heating air temperature rise
 - Up to 12 cooling airflow selections with a wide range of capability
 - LED diagnostics, non-volatile fault code memory, and self test feature
- **Patented blocked vent safeguard to ensure proper furnace venting**
- **All models are Chimney Friendly when used with accessory vent kit**
- **Insulated blower compartment**
- **Heat pump compatible**
- **Hot surface Ignition (HSI)**
- **Residential installations eligible for consumer financing through the Comfort**

LIMITED WARRANTY

- 20-year warranty on "Super S™" heat exchanger
- 5-year parts warranty on all other components

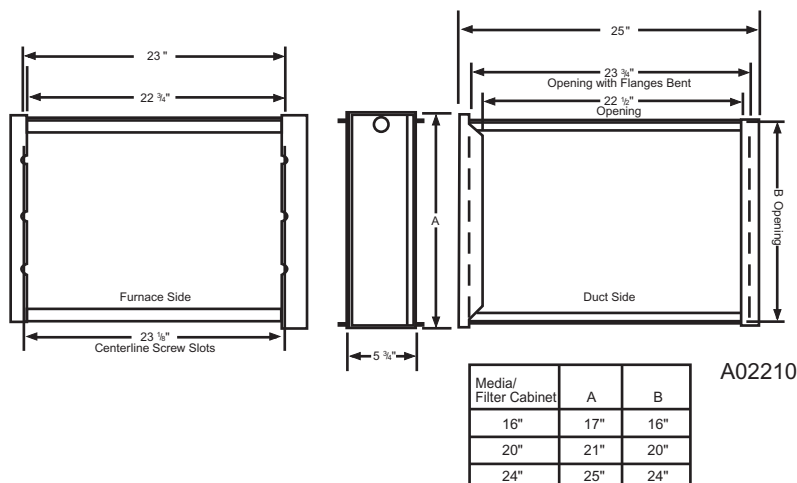
Form No. PDS 315A.45.2



- NOTES:**
- Two additional $\frac{7}{8}$ -in. dia knockouts are located in the top plate.
 - Minimum return-air openings at furnace, based on metal duct. If flex duct is used, see flex duct manufacturer's recommendations for equivalent diameters.
 - Minimum return-air opening at furnace:
 - For 800 CFM-16-in. round or $14\frac{1}{2}$ x 12-in. rectangle.
 - For 1200 CFM-20-in. round or $14\frac{1}{2}$ x $19\frac{1}{2}$ -in. rectangle.
 - For 1600 CFM-22-in. round or $14\frac{1}{2}$ x $22\frac{1}{16}$ -in. rectangle.
 - 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.

315AAV/315JAV UNIT SIZE	A (CABINET WIDTH)	D (SUPPLY WIDTH)	E (BOTTOM RETURN WIDTH)	F (C.I.L. TOP & BOTTOM VENT OUTLET)	VENT CONNECTION SIZE (see notes 1 & 2)	SHIPPING WEIGHT	MEDIA CABINET SIZE
036070	14-3/16	12-9/16	12-11/16	9-5/16	4	127	16
048090	17-1/2	15-7/8	16-1/8	11-9/16	4	151	16
060110	21	19-3/8	19-1/2	13-5/16	4	162	20
066135	24-1/2	22-7/8	23	15-1/16	4 (note 1)	177	24
066155	24-1/2	22-7/8	23	15-1/16	4 (note 1)	183	24

- 135 and 155 size furnaces require five-inch vents. Use a 4-5 inch vent adapter between furnace and vent stack.
- See Installation Instructions for complete installation requirements.



A02210

INSTALLATION

**MINIMUM INCHES CLEARANCE TO COMBUSTIBLE CONSTRUCTION
DISTANCE MINIMALE EN POUCES AUX CONSTRUCTIONS COMBUSTIBLES**

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.

Cette fournaise est approuvée pour l'installation HORIZONTALE et la circulation d'air VERS LE HAUT et VERS LE BAS.

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.

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.

Cette fournaise peut être utilisée avec un conduit d'évacuation de Type B-1 ou connectée au conduit commun d'autres appareils à gaz.

Clearance arrows do not change with furnace orientation.

Les flèches de dégagement ne changent pas avec l'orientation de la fournaise.

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 1 po (1 inch).

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, Coil Assembly, Part No. CD5 or CK5, or Coil Casing, Part No. KCAKC.

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.

DÉGAGEMENT MINIMUM EN POUCES AVEC ÉLÉMENTS DE CONSTRUCTION COMBUSTIBLES

POUR LA POSITION COURANT DESCENDANT:

† Pour l'installation sur plancher non combustible seulement.
Pour l'installation sur un plancher combustible seulement quand on utilise la base spéciale, pièce n° KGASB0201ALL, l'ensemble serpentin, pièce n° CD5 ou CK5, ou le carter de serpentin, pièce n° KCAKC.

Ø Dans une alcôve, on doit maintenir un dégagement à l'avant de 18 po (450 mm).

* La position indiquée concerne le côté d'entrée ou de retour quand la fournaise est dans la position horizontale.
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.

327590-101 REV. B

CONTROLS-THERMOSTATS AND ZONING

THERMOSTAT- NON-PROGRAMMABLE	Auto Changeover, °F/°C, 1-Stage Heat/1-Stage Cool - TSTATBBNAC01-B Auto Changeover, °F/°C, 2-Stage Heat/1-Stage Cool - TSTATBBNHP01-B Auto Changeover, °F/°C, 2-Stage Heat/2-Stage Cool in AC Mode, 3-Stage Heat/2-Stage Cool in HP Mode Air Conditioner, 1-Stage Heat/1-Stage Cool, Manual Changeover, °F/°C - TSTATBBBAC01 Heat Pump, 2-Stage Heat/1-Stage Cool, Manual Changeover, °F/°C - TSTATBBBHP01 *
THERMOSTAT- PROGRAMMABLE	Auto Changeover, 7-Day Programmable, °F/°C, 1-Stage Heat/1-Stage Cool - TSTATBBBPAC01-B Auto Changeover, 7-Day Programmable, °F/°C, 2-Stage Heat/1-Stage Cool - TSTATBBBPHP01-B Auto Changeover, 7-Day Programmable, °F/°C, 2-Stage Heat/2-Stage Cool - TSTATBBP2S01-B in AC Mode, 3-Stage Heat/2-Stage Cool in HP Mode Dual Fuel Thermostat, includes Outdoor Air Temperature Sensor - TSTATBBPDF01-B * Thermostat Control - Non-Programmable/Programmable Thermostat - TSTATBBPRH01-B * with Humidity Control (For use in Dual Fuel, AC, HP, and 2S applications. Includes Outdoor Air Temperature Sensor.)
ZONING- 2-ZONE	ZONEBB2KIT01-B, ZONEKIT2ZBDP
ZONING- 4-ZONE	ZONEBB4KIT01-B
ZONING- 8-ZONE	ZONEBB8KIT01-B

* Do not use in zoning heat pump applications.

SPECIFICATIONS

UNIT SIZE		036070	048090	060110	066135	066155
RATINGS AND PERFORMANCE						
Input Btuh* Nonweatherized 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
	315JAVDownflow/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) † Nonweatherized 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
	315JAVDownflow/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	High	30-60	40-70	40-70	40-70	45-75
	Low	30-60	30-60	25-55	25-55	30-60
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	2095	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 (Measured 1 Way in Ft)		30	29	29	30	29
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)	White Rodgers					
	Min Inlet Pressure (In. wc)	4.5 (Natural Gas)				
	Max Inlet Pressure (In. wc)	13.6 (Natural Gas)				
Ignition Device		Hot Surface				
BLOWER DATA						
Direct-Drive Motor HP (PSC)		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.)		10 x 6	10 x 8	11 x 10	11 x 11	11x 11

* Gas input ratings are certified for elevations to 2000 ft. For elevations above 2000 ft, reduce ratings 4 percent for each 1000 ft above sea level.

Refer to National Fuel Gas Code Table F4 or furnace Installation Instructions. In Canada, derate the unit 10 percent for elevations 2000 ft to 4500 ft above sea level.

** Time-delay type is recommended.

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

‡ Airflow shown is for bottom only return-air supply in comfort mode (as-shipped). 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% may occur when using the factory-specified 4-5/16-inch wide, high efficiency media filter.

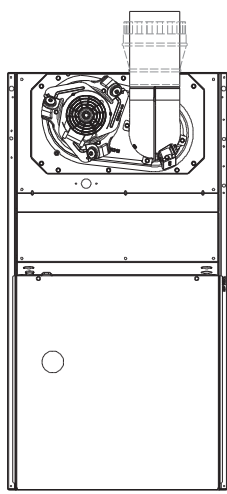
ICS-Isolated Combustion System

N/A-Not Applicable

FACTORY-AUTHORIZED DEALER-INSTALLED ACCESSORIES						
DESCRIPTION	PART NO.	036070	048090	060110	066135	066155
EZ Flex Media Filter with end caps - 16 i n. (9 pack)	EXPXXUNV0016	x	x			
EZ Flex Media Filter with end caps - 20 i n. (9 pack)	EXPXXUNV0020			x		
EZ Flex Media Filter with end caps - 24 i n. (6 pack)	EXPXXUNV0024				x	x
Replacement EZ Flex Filter - 16 in. (10 pack)	EXPXXFIL0016	x	x			
Replacement EZ Flex Filter - 20 in. (10 pack)	EXPXXFIL0020			x		
Replacement EZ Flex Filter - 24 in. (10 pack)	EXPXXFIL0024				x	x
Unframed filter, one inch - 16x25	KGAWF1301UFR KGAWF1306UFR (6-pack)	x	x	s	s	s
Unframed filter, one inch - 20x25	KGAWF1401UFR KGAWF1406UFR (6 pack)			x		
Unframed filter, one inch - 24x25	KGAWF1501UFR KGAWF1506UFR (6 pack)				x	
Combustible Floor Base (not required when evaporator coil case is used)	KGASB0201ALL	x	x	x	x	x
Downflow Vent Guard (not required when vent is routed through cabinet)	KGAVG0101DFG	x	x	x	x	x
Vent Extension Kit (may be used when vent is routed through cabinet in downflow)	KGAVE0101DNH	x	x	x	x	x
Chimney Adapter Kit - 4 i nch vent	KGACA02014FC	x	x	x		
Chimney Adapter Kit - 5 i nch vent	KGACA02015FC				x	x
Natural-to-Propane Gas Conversion Kit (Single Kit) *	KGANP2901ALL	x	x	x	x	x
Propane-to-Natural Gas Conversion Kit (Single Kit)	KGAPN2301ALL	x	x	x	x	x
ECM Motor Simulator (replaces the ECM motor to aid troubleshooting)	KGASD0201FMS	x	x	x	x	x
Advanced Product Monitor (software & hardware to link PC laptop to control board)	KGAFP0201APM	x	x	x	x	x
ECM Control Replacement Module - 1/2 HP	HK44EA120	x	x			
ECM Control Replacement Module - 1 HP	HK52EA120			x	x	x
Gas Orifice Kit (Qty 50) Size 42	KGAAHA0150N42	See Installation Instructions for model, altitude, and heat value usages.				
Gas Orifice Kit (Qty 50) Size 43	KGAAHA0250N43					
Gas Orifice Kit (Qty 50) Size 44	KGAAHA0350N44					
Gas Orifice Kit (Qty 50) Size 45	KGAAHA0450N45					
Gas Orifice Kit (Qty 50) Size 46	KGAAHA0550N46					
Gas Orifice Kit (Qty 50) Size 47	KGAAHA1550N47					
Gas Orifice Kit (Qty 50) Size 48	KGAAHA1650N48					
Gas Orifice Kit (Qty 50) Size 54	KGAAHA0650P54					
Gas Orifice Kit (Qty 50) Size 55	KGAAHA0750P55					
Gas Orifice Kit (Qty 50) Size 56	KGAAHA0850P56					
Gas Orifice Kit (Qty 50) 1.25 mm	KGAAHA5750125					
Gas Orifice Kit (Qty 50) 1.30 mm	KGAAHA5750130					

* Factory-authorized and field installed. Gas conversion kits are A.G.A./C.G.A. recognized.

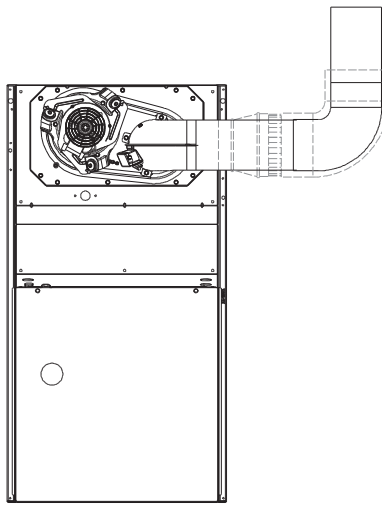
s 16x25 filters suitable for side return on all furnace sizes.



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

UPFLOW

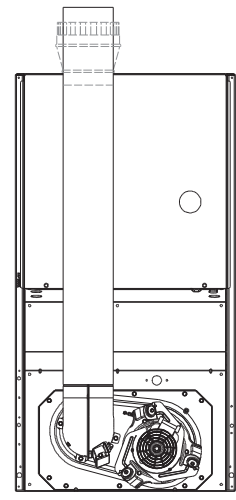
A02058



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

UPFLOW

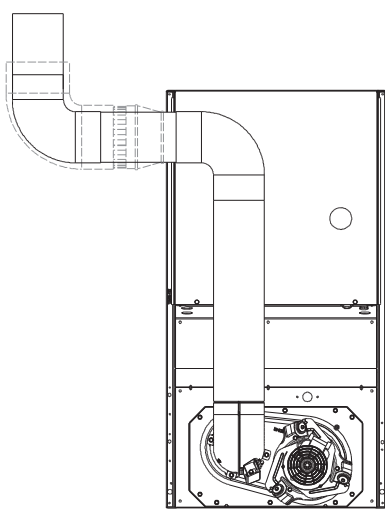
A02059



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

DOWNFLOW

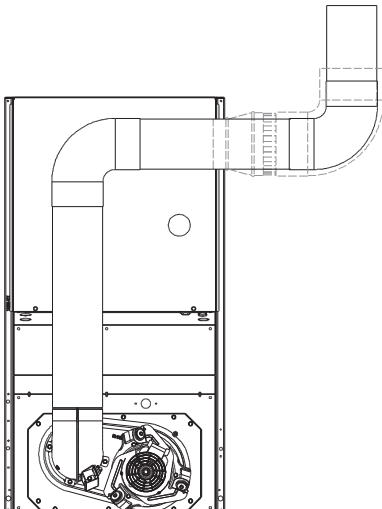
A02061



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

DOWNFLOW

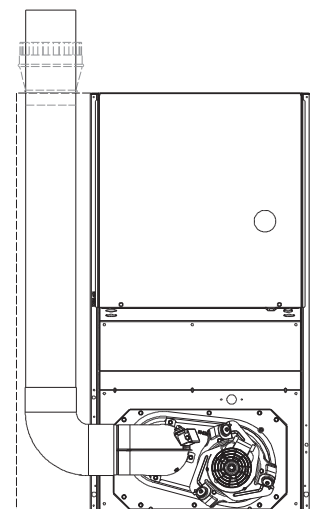
A02060



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

DOWNFLOW

A02063



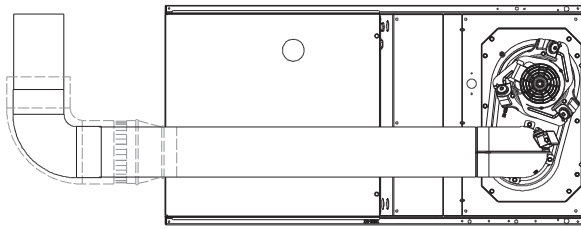
SEE NOTES: 1,2,4,5,6,7,8,9

DOWNFLOW

A02062

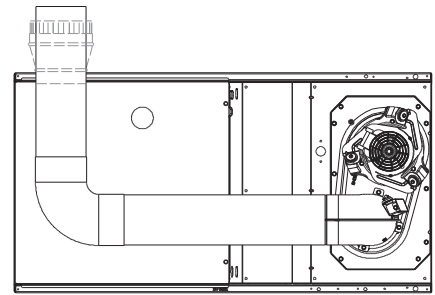
Venting Notes

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. In Canada, latest edition of the National Standards of Canada, Natural Gas and Propane Installation Code (NSCNGPIC), CSA B149.1-00.
2. Immediately increase to 5-inch vent connector outside furnace casing when 5-inch 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" 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.



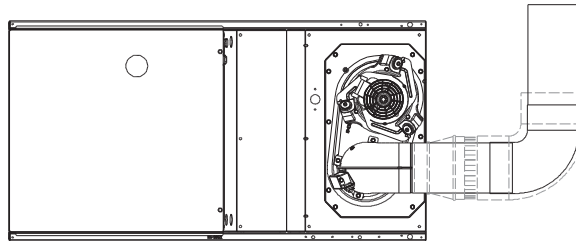
SEE NOTES: 1,2,4,5,7,8,9
HORIZONTAL RIGHT

A02068



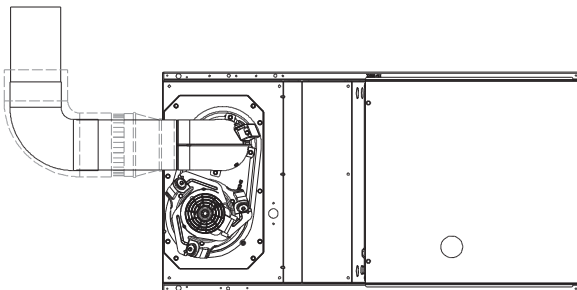
SEE NOTES: 1,2,4,5,7,8,9
HORIZONTAL RIGHT

A02070



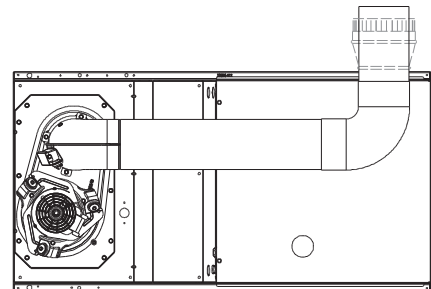
SEE NOTES: 1,2,4,7,8,9
HORIZONTAL RIGHT

A02069



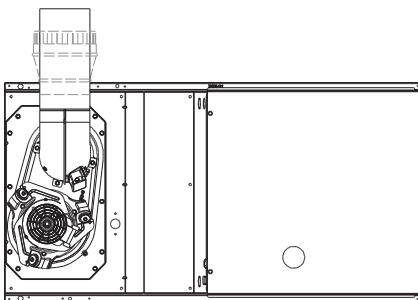
SEE NOTES: 1,2,4,7,8,9
HORIZONTAL LEFT

A02064



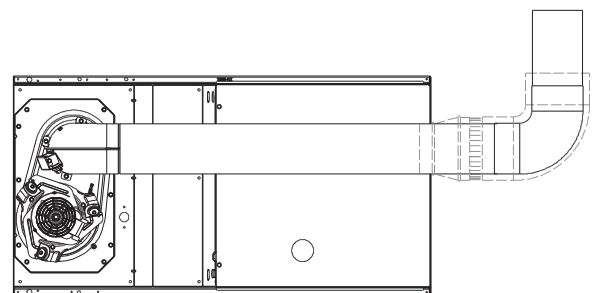
SEE NOTES: 1,2,4,5,7,8,9
HORIZONTAL LEFT

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 (Bottom Return With Filter)*

Unit Size	Operating Mode	CFM Airflow Setting	External Static Pressure Range*	External Static Pressure (ESP)									
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
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‡	525	525	525	525	510					
	†† 2-Ton A/C Cooling	700	0-0.50‡	700	700	700	695	685					
	2-1/2-Ton A/C Cooling	875	0-1.0‡	875	875	875	875	875	875	865	855	845	840
	3-Ton A/C Cooling	1050	0-1.0‡	1050	1050	1050	1050	1050	1050	1050	1050	1045	1035
	3-1/2-Ton A/C Cooling	1225	0-1.0	1205	1215	1225	1225	1225	1225	1225	1225	1225	1210
	Maximum	1400	0-1.0	1395	1400	1400	1400	1400	1400	1400	1385	1360	1310
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	525	525	525	500					
	†† 2-Ton A/C Cooling	700	0-0.50‡	690	695	700	700	690					
	2-1/2-Ton A/C Cooling	875	0-1.0‡	830	855	875	875	875	875	870	865	850	820
	3-Ton A/C Cooling	1050	0-1.0‡	1005	1025	1040	1050	1050	1050	1050	1050	1050	1050
	3-1/2-Ton A/C Cooling	1225	0-1.0‡	1205	1220	1215	1225	1225	1225	1225	1225	1225	1220
	4-Ton A/C Cooling	1400	0-1.0	1370	1385	1395	1400	1400	1400	1400	1400	1400	1380
	Maximum	1600	0-1.0	1565	1580	1585	1595	1600	1600	1560	1520	1480	1430
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	685	660					
	†† 2-1/2-Ton A/C Cooling	875	0-0.50‡	860	875	865	855	840					
	†† 3-Ton A/C Cooling	1050	0-0.50‡	1050	1050	1045	1050	1050					
	3-1/2-Ton A/C Cooling	1225	0-1.0‡	1185	1195	1215	1225	1225	1225	1225	1225	1225	1225
	4-Ton A/C Cooling	1400	0-1.0‡	1385	1395	1400	1400	1400	1400	1400	1400	1400	1400
	5-Ton A/C Cooling	1750	0-1.0‡	1710	1730	1745	1745	1750	1750	1750	1750	1745	1740
	6-Ton A/C Cooling	2100	0-1.0	2090	2100	2100	2100	2095	2085	2065	2045	2020	1990
	Maximum	2200	0-1.0	2200	2200	2200	2190	2185	2175	2155	2130	2085	2015
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	1745	1740	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

* Actual external static pressure (ESP) can be determined by using the fan laws (CFM² 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 mode" airflow values are shown in **parenthesis**. "Comfort mode" airflow is selected when the low-heat rise adjustment switch (SW1-3) is OFF and the comfort/efficiency switch (SW1-4) is ON. Furnaces are shipped in this configuration.

‡ 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 airflows on 110 size furnace are 5% less on side return only installations.

AIR DELIVERY - POWER DRAW (WATTS)**

Unit Size	Operating Mode	CFM Airflow Setting	External Static Pressure Range*	External Static Pressure (ESP)									
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
036070				POWER DRAW (WATTS)**									
††	Low Heat	735†	0-0.50	84	100	119	133	148					
	High Heat	1180	0-1.0	227	256	287	318	347	381	407	435	462	485
	†† 1-1/2-Ton A/C Cooling	525	0-0.50‡	48	63	74	86	98					
	†† 2-Ton A/C Cooling	700	0-0.50‡	75	90	108	121	135					
	2-1/2-Ton A/C Cooling	875	0-1.0‡	123	145	163	183	202	221	238	257	275	297
	3-Ton A/C Cooling	1050	0-1.0‡	181	205	226	253	278	302	326	350	371	392
	3-1/2-Ton A/C Cooling	1225	0-1.0	254	289	320	355	384	416	444	472	495	515
	Maximum	1400	0-1.0	381	413	462	490	527	556	586	607	616	608
048090													
††	Low Heat	985†	0-1.0	115	144	170	197	224	251	279	306	334	359
	High Heat	1210	0-1.0	187	216	245	280	314	343	375	407	435	463
	†† 1-1/2-Ton A/C Cooling	525	0-0.50‡	45	61	77	93	107					
	†† 2-Ton A/C Cooling	700	0-0.50‡	61	78	96	118	138					
	2-1/2-Ton A/C Cooling	875	0-1.0‡	87	110	136	159	183	207	229	254	283	304
	3-Ton A/C Cooling	1050	0-1.0‡	127	159	185	214	242	271	301	329	356	384
	3-1/2-Ton A/C Cooling	1225	0-1.0‡	191	223	246	283	312	349	378	412	441	469
	4-Ton A/C Cooling	1400	0-1.0	267	304	342	382	424	463	495	531	558	587
††	Maximum	1600	0-1.0	390	434	483	526	568	608	617	623	630	625
060110***													
††	Low Heat	1440†	0-1.0	209	250	287	334	371	411	440	485	528	566
	High Heat	2005	0-1.0	499	554	601	656	707	761	810	856	898	937
	†† 2-Ton A/C Cooling	700	0-0.50‡	63	81	102	120	140					
	†† 2-1/2-Ton A/C Cooling	875	0-0.50‡	78	106	125	148	168					
	†† 3-Ton A/C Cooling	1050	0-0.50‡	107	136	163	195	226					
	3-1/2-Ton A/C Cooling	1225	0-1.0‡	143	181	215	253	287	318	347	384	408	451
	4-Ton A/C Cooling	1400	0-1.0‡	191	230	264	318	354	399	429	474	521	557
	5-Ton A/C Cooling	1750	0-1.0‡	356	394	436	487	524	571	616	664	706	753
††	6-Ton A/C Cooling	2100	0-1.0	563	626	671	731	784	837	895	934	978	1010
	Maximum	2200	0-1.0	631	692	761	814	878	922	967	1023	1059	1091
066135													
††	Low Heat	1700†	0-1.0	321	371	430	469	509	562	608	666	706	757
	High Heat	1915	0-1.0	429	476	542	601	658	730	778	832	902	944
	†† 2-Ton A/C Cooling	700	0-0.50‡	61	83	107	128	149					
	†† 2-1/2-Ton A/C Cooling	875	0-0.50‡	76	107	134	160	187					
	†† 3-Ton A/C Cooling	1050	0-0.50‡	103	135	174	208	240					
	3-1/2-Ton A/C Cooling	1225	0-1.0‡	131	174	210	253	289	336	374	423	459	511
	4-Ton A/C Cooling	1400	0-1.0‡	201	250	283	330	376	410	453	491	533	565
	5-Ton A/C Cooling	1750	0-1.0‡	343	400	450	491	535	584	630	681	730	779
††	6-Ton A/C Cooling	2100	0-1.0	573	631	705	762	827	890	943	998	1044	1091
	Maximum	2200	0-1.0	656	725	803	863	928	984	1047	1087	1126	1142
066155													
††	Low Heat	1715†	0-1.0	310	366	402	443	486	525	580	621	668	719
	High Heat	1970	0-1.0	442	493	547	604	655	720	770	826	879	932
	†† 2-Ton A/C Cooling	700	0-0.50‡	60	79	105	126	147					
	†† 2-1/2-Ton A/C Cooling	875	0-0.50‡	73	97	128	154	178					
	†† 3-Ton A/C Cooling	1050	0-0.50‡	96	122	153	196	226					
	3-1/2-Ton A/C Cooling	1225	0-1.0‡	121	166	201	244	277	314	358	400	441	491
	4-Ton A/C Cooling	1400	0-1.0‡	188	225	266	299	345	389	423	462	498	540
	5-Ton A/C Cooling	1750	0-1.0‡	322	367	422	466	498	546	598	653	693	740
††	6-Ton A/C Cooling	2100	0-1.0	500	557	620	691	743	814	864	936	985	1027
	Maximum	2200	0-1.0	592	673	746	811	885	935	994	1026	1102	1129

* Actual external static pressure (ESP) can be determined by using the fan laws (CFM² 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.

† Low heat CFM when low-heat rise adjustment switch (SW1-3) and comfort/efficiency adjustment switch (SW1-4) on control center are OFF.

‡ Ductwork must be sized for high-heating CFM within the operational range of ESP.

** Wattage data provided is for the circulating blower with bottom return and does not include draft inducer, accessories, or gas controls.

†† Operation within the blank areas of the chart is not recommended because high-heat operation will be above 1.0 ESP.

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



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

UNIT MUST BE INSTALLED IN ACCORDANCE
WITH INSTALLATION INSTRUCTIONS

PDS 315A.45.2
Cancels: 315A.45.1