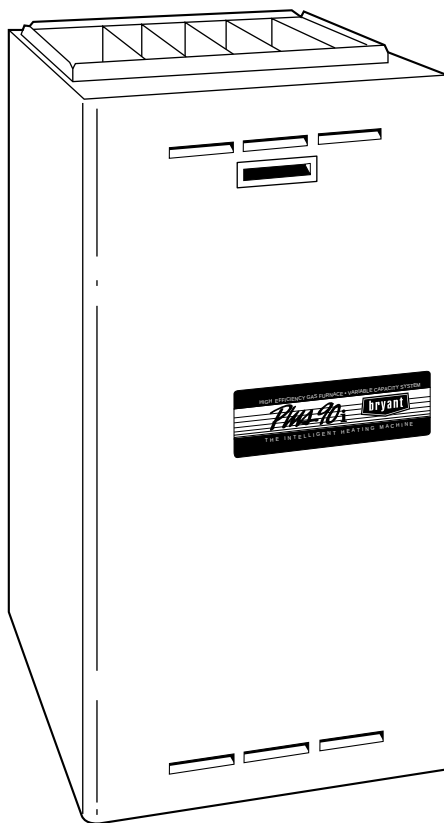




DELUXE 4-WAY MULTIPOISE VARIABLE-CAPACITY DIRECT-VENT CONDENSING GAS FURNACE

355MAV
Sizes 040 thru 120
Series D



Building on our industry-leading condensing furnace technology, the model 355MAV is our greatest innovation in comfort control and operating efficiency.

Modern technology provides the Plus 90i™ design with great reliability, high efficiency, and ultra-quiet operation. Efficiencies are up to 96.6 percent Annual Fuel Utilization Efficiency (AFUE). The model 355MAV Plus 90i Condensing Gas Furnace incorporates the electronic intelligence of a microprocessor. The microprocessor control center interacts with a 2-stage gas valve, a variable-speed inducer motor, and a variable-speed blower motor, allowing the Plus 90i to adjust combustion air, firing rate, and airflow to maintain peak efficiency throughout the operating cycle.

The variable-capacity system provides the ultimate in heating comfort while minimizing electrical and gas consumption.

FEATURES

4-Way Multipoise Design—Allows the model 355MAV to be installed in an upflow, downflow, or horizontal orientation. Factory configured for upflow applications with only simple drain connection changes required for conversion to downflow or horizontal.

The model 355MAV is available in 6 heat/airflow combinations. When combined with the 4-way design, the 355MAV allows for 24 different applications.

Variable-Speed Motors—Motors provide variable-speed operation to improve the comfort levels in the home. They are also more economical to operate than standard motors. Variable-speed motors have the ability to adapt to changing conditions and provide consistent, comfortable, and quiet heating. Motors and electronic controls are covered by a 5-year limited warranty.

2-Stage Gas Valve—The 355MAV has a 2-stage gas valve to vary the amount of gas being used. This intelligent heating machine constantly monitors operating conditions to adjust for greater efficiency and comfort. The control reserves the high-firing rate for times when the heating demand is high.

Integrated Control Center—The microprocessor controls the Plus 90i to provide superior comfort. The integrated control center has these additional features:

- dedicated terminals for electrical connection of electronic air cleaner or humidifier
- adjustable blower off time
- LED fault code display to aid in servicing
- selectable airflow to match cooling unit
- emergency heat setting
- setting to increase airflow for bypass-type humidifier
- selectable constant fan airflow
- a multizone setting for use with zoned air distribution systems
- a special dehumidification function increases cooling comfort by providing greater humidity removal in summer months

Sealed Combustion (Direct-Vent) System—Enclosed burner assembly isolates operating noise without the expense of sound-deadening devices. With the sealed combustion (direct-vent) system, outdoor air is brought directly into the combustion chamber, cutting cold air infiltration into the structure and reducing heat loss.

Three-Pass Primary Heat Exchangers—This design accelerates heat transfer and extracts heat that conventional heat exchangers waste up the flue. The primary heat exchanger is made of aluminized steel for corrosion resistance.

Flow-Through Secondary Heat Exchangers—Each cell is laminated with our patented Everlastic™ polypropylene for greater resistance to corrosion and is epoxy coated externally to prevent oxidation. This breakthrough in heating technology (Patent No. 4,738,307) helps extend the life of the furnace for years of reliable performance. The heat exchangers are positioned in the furnace to extract additional heat from the combustion products regardless of furnace orientation.

Warranty—Limited lifetime warranty on the heat exchangers for the lifetime of the original owner in single family residence; 20 years in other residential and commercial applications. Contact your dealer for details. Five-year Limited Warranty on microprocessor control, variable-speed motors, and a 3-year Limited Warranty on hot surface ignitor.

Monoport Inshot Burners—Produce precise air-to-gas mixture for clean burning. The large monoport on the inshot or injection-type burners seldom, if ever, needs cleaning.

Combustion Air and Ventilation—The 355MAV design is so that Schedule 40PVC, PVC-DWV, SDR-21 PVC, SDR-26 PVC, ABS-DWV, or ABS-F628 Schedule 40 pipe can be used to bring outdoor air into the furnace for combustion. The extracted heat lowers the temperature of the combustion products (typically below 115°F) to a point that PVC pipe can also be used for venting combustion products outside the structure. The combustion-air and vent pipes can terminate through a side wall or through the roof when using our approved vent termination kits.

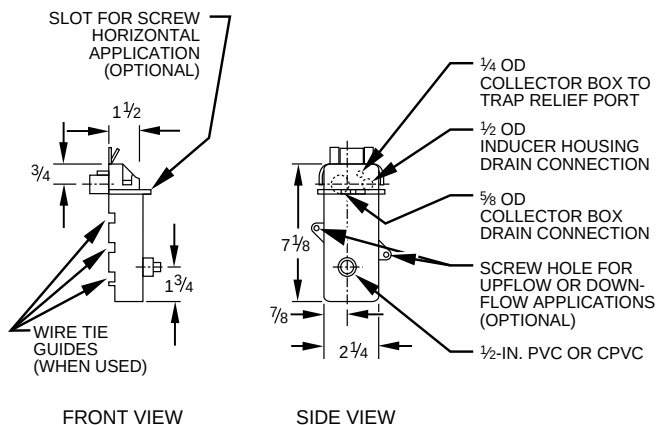
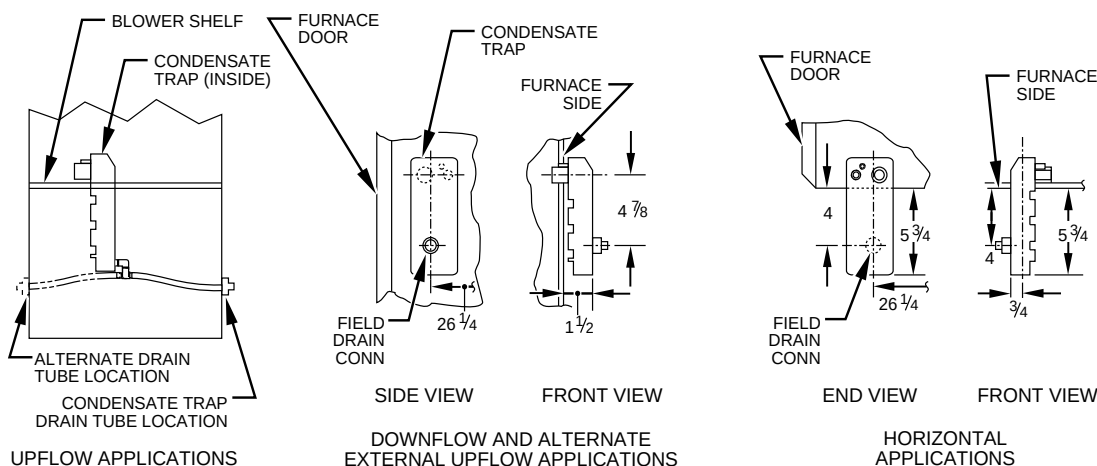
Fully-Insulated Casing—Foil-faced insulation in the heat exchanger section cuts the heat loss; double-density insulation in

the blower section reduces noise levels. The casing also has the required openings for left- or right-side connection of gas, electric, drain, and vent connections.

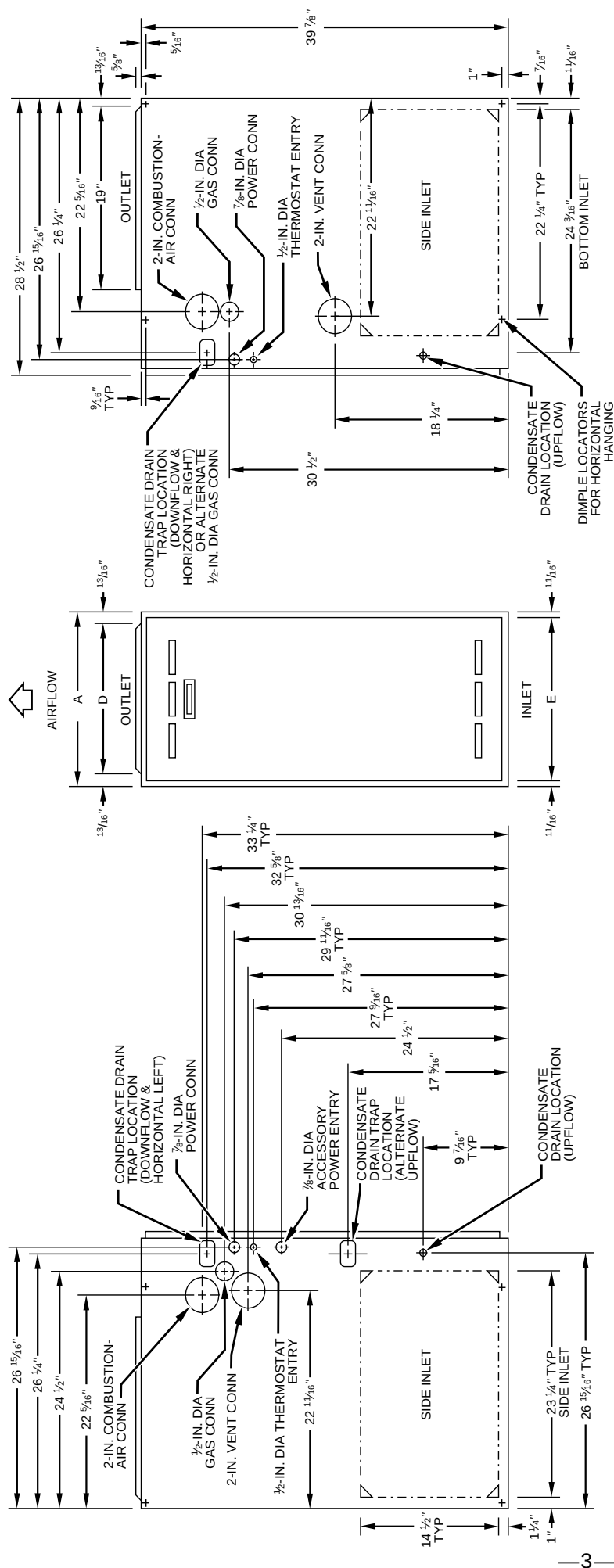
Certifications—The 355MAV units are A.G.A. and C.G.A. design certified for use with natural and propane gases, as well as GAMA efficiency rating certified. The furnace is factory-shipped for use with natural gas. An A.G.A./C.G.A. certified gas conversion kit is required to convert furnace for use with propane gas. The model 355MAV meets California Air Quality Management District emission requirements.

Quality Registration—The 355MAV is engineered and manufactured under an ISO 9001 registered quality system.

CONDENSATE TRAP



A93026



NOTES: Minimum return-air opening at furnace, based on metal duct. If flex duct is used, see flex duct manufacturer's recommendation for equivalent diameters:

1. For 800 CFM—16-in. round or 14-1/2 X 12-in. rectangle.
2. For 1200 CFM—20-in. round or 14-1/2 X 19-1/2 in. rectangle.
3. For 1600 CFM—22-in. round or 14-1/2 X 23-1/4 in. rectangle.
4. For airflow requirements above 1800 CFM, see Air Delivery Curve in Product Data literature for specific use of single side inlets. The use of both side inlets, a combination of 1 side and bottom, or the bottom only will ensure adequate return-air openings for airflow requirements above 1800 CFM.

DIMENSIONS (IN.)

UNIT SIZE	A	D	E	SHIP. WEIGHT (Lb)
042040*	24-1/2*	22-7/8*	23*	205
042060	17-1/2	15-7/8	16	170
042080	21	19-3/8	19-1/2	182
060080	21	19-3/8	19-1/2	204
060100	21	19-3/8	19-1/2	203
060120	24-1/2	22-7/8	23	234

* These dimensions reflect the wider casing for the 96.6% AFUE furnace.

This forced air furnace is equipped for use with natural gas at altitudes 0 - 10,000 ft (0 - 3,050m), except 140 size Furnaces are only approved for altitudes 0 - 7,000 ft. (0 - 2,135m).

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 in a manufactured (mobile) home when stated on rating plate and using factory authorized kit.

This furnace may be installed on combustible flooring in alcove or closet at minimum clearance from combustible material.

This appliance requires a special venting system. Refer to the installation instructions for parts list and method of installation. This furnace is for use with schedule-40 PVC, PVC-DWV, or ABS-DWV pipe, and must not be vented in common with other gas-fired appliances. Construction through which vent/air intake pipes may be installed is maximum 24 inches (600 mm), minimum 3/4 inches (19 mm) thickness (including roofing materials).

MINIMUM INCHES CLEARANCE TO COMBUSTIBLE CONSTRUCTION

ALL POSITIONS:

★ Minimum front clearance for service 30 inches (762mm).

†† 140 size furnaces require 1 inch back clearance to combustible materials.

DOWNFLOW POSITIONS:

† For installation on combustible floors only when installed on special base No. KGASB0201ALL, Coil Assembly, Part No. CD5 or CK5, or Coil Casing, Part No. KCAKC.

HORIZONTAL POSITIONS:

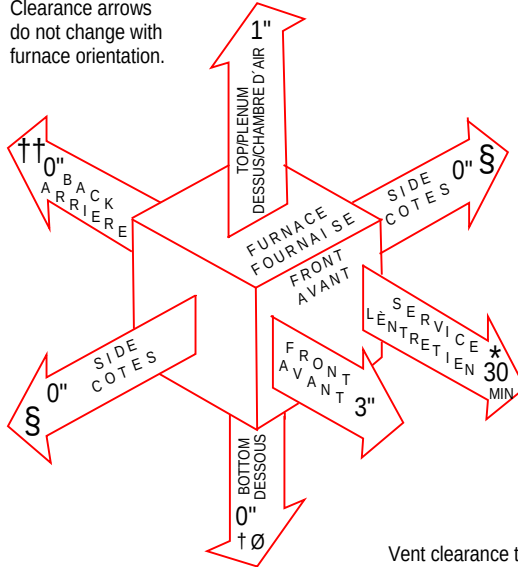
§ Clearance shown is for air inlet and air outlet end.

Line contact is permissible only between lines formed by intersections of top and two sides of furnace jacket, and building joists, studs, or framing.

Ø 120 and 140 size Furnaces require 1 inch bottom clearance to combustible materials.

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

Clearance arrows do not change with furnace orientation.



Clearance in inches

Vent clearance to combustibles 0".

323857-101 REV. C (LIT)

A97609



REGISTERED QUALITY SYSTEM

MEETS DOE RESIDENTIAL CONSERVATION SERVICES PROGRAM STANDARDS.

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

As an ENERGY STARSM Partner, Bryant Heating & Cooling Systems determined that this product meets the ENERGY STAR guidelines for energy efficiency.

These products are engineered and manufactured under an ISO 9001 registered quality system.

SPECIFICATIONS

UNIT SIZE			042040	042060	042080	060080	060100	060120	
RATINGS AND PERFORMANCE									
Input Btuh*		Low	26,000	39,000	52,000	52,000	65,000	78,000	
		High	40,000	60,000	80,000	80,000	100,000	120,000	
Output Capacity Btuh (ICS)† (Shaded capacities are specified on rating plate)		Low	Upflow	25,000	37,000	49,000	49,000	61,000	73,000
			Downflow	25,000	36,000	49,000	49,000	61,000	73,000
			Horizontal	25,000	36,000	49,000	49,000	61,000	73,000
		High	Upflow	38,000	57,000	75,000	75,000	94,000	113,000
			Downflow	37,000	56,000	75,000	75,000	94,000	113,000
			Horizontal	37,000	56,000	75,000	75,000	93,000	112,000
(Isolated Combustion System)									
AFUE%†		Upflow	96.6	94.1	94.1	94.1	94.1	94.1	
		Downflow	95.0	92.7	92.7	92.7	92.7	92.7	
		Horizontal	96.1	93.7	93.7	93.7	93.7	93.7	
Certified Temperature Rise Range (°F)		Low	35—45	60—70	60—70	60—70	60—70	60—70	
		High	40—50	45—55	45—55	45—55	55—65	55—65	
Certified External Static Pressure (ESP) (In. wc)		Heating	0.10	0.12	0.15	0.15	0.20	0.20	
		Cooling	0.50	0.50	0.50	0.50	0.50	0.50	
Airflow CFM‡		Heating Low	565 (650**)	515 (590**)	690 (795**)	690 (795**)	860 (990**)	1035 (1190**)	
		Heating High	780	1010	1345	1345	1425	1710	
		Cooling (Max)	1400	1400	1400	2000	2000	2000	
ELECTRICAL									
Unit Volts—Hertz—Phase			115—60—1						
Operating Voltage Range Min—Max††			104—127						
Maximum Unit Amps			8.9	8.9	8.9	13.8	13.8	11.6	
Unit Ampacity‡‡			12.0	12.0	12.0	17.9	18.1	15.3	
Minimum Wire Size, AWG			14	14	14	12	12	12	
Maximum Wire Length (Ft)***			31	31	31	32	32	37	
Maximum Fuse Size or Ckt Bkr Amps†††			15	15	15	20	20	20	
Transformer (24v)			40va						
External Control		Heating	25va						
		Cooling	34va						
Accessory Relay			Standard						
CONTROLS									
Limit Control			SPST						
Heating Blower Control (Off Delay)			Selectable 90, 135, 180, or 225 Sec Intervals						
Burners (Monoport)			2	3	4	4	5	6	
Gas Connection Size			1/2-in. NPT						
GAS CONTROLS									
Gas Valve (Redundant 2-Stage)		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						
BLOWER DATA									
Direct-Drive Motor HP (ICM)			1/2	1/2	1/2	1	1	3/4	
Motor Full Load Amps			7.7	7.7	7.7	12.4	12.4	9.6	
RPM (Nominal)—Speeds			Variable 250—1300						
Blower Wheel Diameter X Width (In.)			11 X 10	10 X 7	11 X 10	11 X 10	11 X 10	11 X 10	
Filter Size (In.)—Permanent Washable			(2) 16 X 25 X 1	(1) 16 X 25 X 1	(1) 20 X 25 X 1	(1) 20 X 25 X 1	(1) 20 X 25 X 1	(2) 16 X 25 X 1	
DEALER-INSTALLED OPTIONS									
Gas Conversion Kit—Natural-to-Propane			KGANP25012SP						
Gas Conversion Kit—Propane-to-Natural			KGAPN20012SP						
Downflow Base ‡‡‡			KGASB0201ALL						
Vent Termination Kit (Bracket Only for 2 Pipes)			2-in.—KGAVT0101BRA		3-in.—KGAVT0201BRA				
Concentric Vent Termination Kit (Single Pipe)			2-in.—KGAVT0501CVT		3-in.—KGAVT0601CVT				
Condensate Freeze Protection Kit			KGAHT0101CFP						
Side Filter Rack**** (Upflow ONLY)			KGAFR0206ALL						
Advanced Product Monitor			KGAFP0101APM						
Electronic or Mechanical Air Cleaner****			Model AIRA or 902B or MACA						
Humidifier			Model HUM						
Heat/Energy Recovery Ventilator			Model VA3B, VB5B, VC5B, or VL3A						
Thermostat			TSTATBB(N,P)AC01-B, TSTATBB(N,P)HP01-B, TSTATBB(N,P)2S01-B, or TSTATBBPDF01-B						
Thermidistat††††			TSTATBBPRH01-B						
Zoning			2-Zone—ZONEKIT2ZBDP, ZONEBB2KIT01		4-Zone—ZONEBB4KIT01		8-Zone—ZONEBB8KIT01		

* Gas input ratings are certified for elevations to 2000 ft. For elevations above 2000 ft, reduce ratings 2% for each 1000 ft above sea level. In Canada, from 2000 to 4500 ft above sea level, derate the unit 5%.

† Capacity and AFUE 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 curve for other options. A filter is required for each return-air supply.

** Low heat CFM when bypass humidifier switch (SW-3) on control center is used.

†† Permissible voltage limits for proper furnace operation.

‡‡ Unit ampacity = 125% of largest component's full load amps plus 100% of all other potential operating components (EAC, humidifier, etc.)

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

††† Time-delay type is recommended.

‡‡‡ Required for installation on combustible floors when no coil box is used, or when any coil box other than a Bryant CD5, CK5 or KCAKC cased coil is used.

**** An external filter is required for right-side return-air installations.

ICM—Integrated Control and Motor.

†††† High-pressure switch must be used when operating a dual fuel system. Outdoor Temperature Sensor is packaged with the Thermidistat Control and dual fuel thermostat to gain the full benefit and features.

COMBUSTION-AIR AND VENT PIPING

MAXIMUM ALLOWABLE PIPE LENGTH (FT)

ALTITUDE	UNIT SIZE	TERMINATION TYPE	PIPE SIZE DIA (IN.)*	NUMBER OF 90° ELBOWS					
				1	2	3	4	5	6
0 to 2000	042040	2 Pipe or 2-In. Concentric	1-1/2	50	45	40	35	30	25
			2	70	70	70	70	70	70
	042060	2 Pipe or 2-In. Concentric	1-1/2	50	45	40	35	30	25
			2	70	70	70	70	70	70
	042080 060080	2 Pipe or 2-In. Concentric	1-1/2	30	25	20	15	10	5
			2	70	70	70	70	70	70
	060100	2 Pipe or 2-In. Concentric	2	45	40	35	30	25	20
			2-1/2	70	70	70	70	70	70
	060120	2 Pipe or 3-In. Concentric	2-1/2	10	NA	NA	NA	NA	NA
			3	35	30	15	NA	NA	NA
			3†	70	70	70	70	70	70
2001 to 3000	042040	2 Pipe or 2-In. Concentric	1-1/2	45	40	35	30	25	20
			2	70	70	70	70	70	70
	042060	2 Pipe or 2-In. Concentric	1-1/2	45	40	35	30	25	20
			2	70	70	70	70	70	70
	042080 060080	2 Pipe or 2-In. Concentric	1-1/2	26	21	16	11	6	NA
			2	70	70	70	70	70	70
	060100	2 Pipe or 3-In. Concentric	2	40	35	30	25	20	15
			2-1/2	70	70	70	70	70	70
	060120	2 Pipe or 3-In. Concentric	3	31	26	12	NA	NA	NA
			3†	63	62	62	61	61	61
3001 to 4000	042040	2 Pipe or 2-In. Concentric	1-1/2	42	37	32	27	22	17
			2	70	70	70	70	70	70
	042060	2 Pipe or 2-In. Concentric	1-1/2	42	37	32	27	22	17
			2	70	70	70	70	70	70
	042080 060080	2 Pipe or 2-In. Concentric	1-1/2	25	20	15	10	5	NA
			2	70	70	70	70	70	70
	060-100	2 Pipe or 2-In Concentric	2	38	33	28	23	18	13
			2-1/2	70	70	70	70	70	70
	060120	2 Pipe or 3-In. Concentric	3	29	24	10	NA	NA	NA
			3†	59	59	58	57	57	56
4001 to 5000‡	042040	2 Pipe or 2-In. Concentric	1-1/2	40	35	30	25	20	15
			2	70	70	70	70	70	70
	042060	2 Pipe or 2-In. Concentric	1-1/2	40	35	30	25	20	15
			2	70	70	70	70	70	70
	042080 060080	2 Pipe or 2-In. Concentric	1-1/2	23	18	13	8	NA	NA
			2	70	70	70	70	70	68
	060100	2 Pipe or 2-In. Concentric	2	36	31	26	21	16	11
			2-1/2	70	70	70	70	70	70
	060120	2 Pipe or 3-In. Concentric	3†	56	55	54	53	52	52
5001 to 6000‡	042040	2 Pipe or 2-In. Concentric	1-1/2	37	32	27	22	17	12
			2	70	70	70	70	70	70
	042060	2 Pipe or 2-In. Concentric	1-1/2	37	32	27	22	17	12
			2	70	70	70	70	70	70
	042080 060080	2 Pipe or 2-In. Concentric	1-1/2	22	17	12	7	NA	NA
			2	70	70	70	70	68	63
	060100	2 Pipe or 2-In. Concentric	2	33	18	23	18	13	8
			2-1/2	70	70	70	70	70	70
	060120	2 Pipe or 3-In. Concentric	3†	53	52	50	49	48	47

See notes on page 7.

MAXIMUM ALLOWABLE PIPE LENGTH (FT) Continued

ALTITUDE	UNIT SIZE	TERMINATION TYPE	PIPE SIZE DIA (IN.)*	NUMBER OF 90° ELBOWS					
				1	2	3	4	5	6
6001 to 7000‡	042040	2 Pipe or 2-In. Concentric	1-1/2	35	30	25	20	15	10
			2	70	70	68	67	66	64
	042060	2 Pipe or 2-In. Concentric	1-1/2	35	39	25	29	15	10
			2	70	70	68	67	66	64
	042080 060080	2 Pipe or 2-In. Concentric	1-1/2	20	15	10	5	NA	NA
			2	70	70	68	67	62	57
	060100	2 Pipe or 2-In. Concentric	2	31	26	21	16	11	6
			2-1/2	70	70	68	67	66	64
7001 to 8000‡	042040	2 Pipe or 2-In. Concentric	1-1/2	32	27	22	17	12	7
			2	66	65	63	62	60	59
	042060	2 Pipe or 2-In. Concentric	1-1/2	32	27	22	17	12	7
			2	66	65	63	62	60	59
	042080 060080	2 Pipe or 2-In. Concentric	1-1/2	18	13	8	NA	NA	NA
			2	66	65	63	62	57	52
	060100	2 Pipe or 2-In. Concentric	2	29	24	19	14	9	NA
			2-1/2	66	65	63	62	60	59
8001 to 9000‡	042040	2 Pipe or 3-In. Concentric	1-1/2	30	25	20	15	10	5
			2	62	60	58	56	55	53
	042060	2 Pipe or 2-In. Concentric	1-1/2	30	25	20	15	10	5
			2	62	60	58	56	55	53
	042080 060080	2 Pipe or 2-In. Concentric	1-1/2	17	12	7	NA	NA	NA
			2	62	60	58	56	51	46
	060100	2 Pipe or 2-In. Concentric	2	27	22	17	12	7	NA
			2-1/2	62	60	58	56	55	53
9001 to 10,000‡	042040	2 Pipe or 2-In. Concentric	1-1/2	27	22	17	12	7	NA
			2	57	55	53	51	49	47
	042060	2 Pipe or 2-In. Concentric	1-1/2	27	22	17	12	7	NA
			2	57	55	53	51	49	47
	042080 060080	2 Pipe or 2-In. Concentric	1-1/2	15	10	5	NA	NA	NA
			2	57	55	53	51	49	47
	060100	2 Pipe or 2-In. Concentric	2	24	19	14	9	NA	NA
			2-1/2	57	55	53	51	49	47
9001 to 10,000‡	060120	2 Pipe or 3-In. Concentric	3†	39	37	35	33	31	29

* Disk usage—Unless otherwise stated, use perforated disk assembly (factory-supplied in loose parts bag).

† Wide radius elbow.

‡ Vent sizing for Canadian installations over 4500 ft (1370m) above sea level are subject to acceptance by the local authorities having jurisdiction.

NA—Not Allowed; pressure switch will not make.

NOTES:

1. Do not use pipe size greater than those specified in table or incomplete combustion, flame disturbance, or flame sense lockout may occur.
2. Size both the combustion-air and vent pipe independently, then use the larger diameter for both pipes.
3. Assume two 45° elbows equal one 90° elbow. Long radius elbows are desirable and may be required in some cases.
4. Elbows and pipe sections within the furnace casing and at the vent termination should not be included in vent length or elbow count.
5. The minimum pipe length is 5 ft for all applications.

**MAXIMUM ALLOWABLE EXPOSED VENT PIPE LENGTH (FT)
WITH INSULATION IN WINTER DESIGN TEMPERATURE AMBIENT***

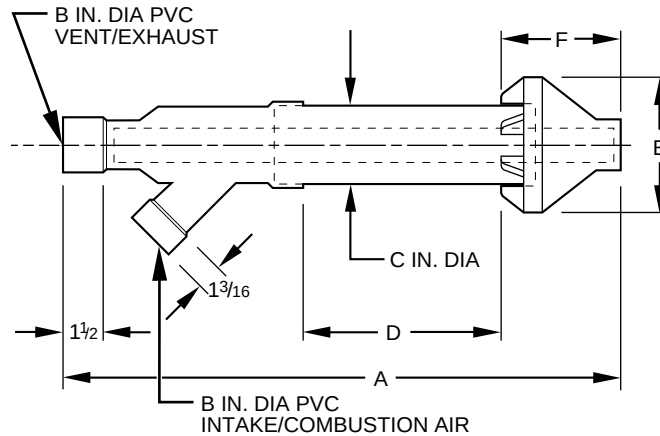
UNIT SIZE	WINTER DESIGN TEMP °F	MAXIMUM PIPE DIA	INSULATION THICKNESS (IN.)†				
			0	3/8	1/2	3/4	1
042040	20	2	21	37	42	50	57
	0	2	10	22	25	30	35
	-20	2	5	14	17	21	25
042060	20	2	30	55	61	70	70
	0	2	16	33	38	46	53
	-20	2	9	23	26	33	38
042080 060080	20	2	37	65	70	70	70
	0	2	20	39	45	55	63
	-20	2	11	27	31	39	45
060100	20	2-1/2	41	70	70	70	70
	0	2-1/2	21	42	48	59	68
	-20	2-1/2	11	28	33	41	49
060120	20	3	49	70	70	70	70
	0	3	26	51	58	70	70
	-20	3	15	35	40	50	59

* Pipe length (ft) specified for maximum vent pipe lengths located in unconditioned spaces. Vent pipes located in unconditioned space cannot exceed total allowable pipe length as specified in maximum allowable pipe length table.

† Insulation thickness based on R value of 3.5 per in.

ACCESSORIES

CONCENTRIC VENT



A97110

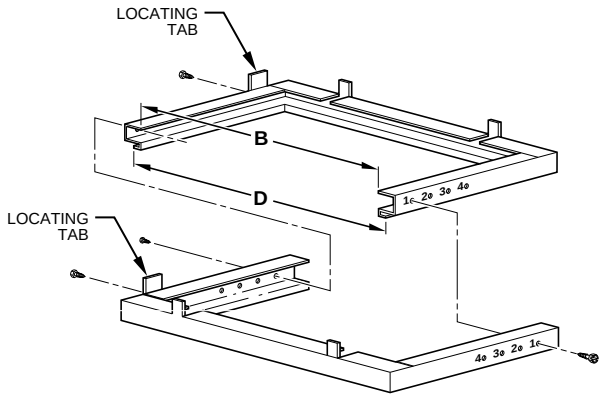
DIMENSIONS (IN.)

KIT PART NO.	A*	B	C	D†	E	F
KGAVT0501CVT	33-3/8	2	3-1/2	16-5/8	6-1/4	5-3/4
KGAVT0601CVT	38-7/8	3	4-1/2	21-1/8	7-3/8	6-1/2

* Dimension A will change accordingly as dimension D is lengthened or shortened.

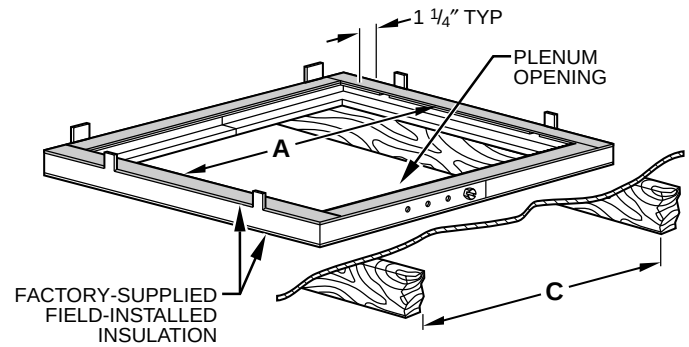
† Dimension D may be lengthened to 60 in. maximum. Dimension D may also be shortened by cutting the pipes provided in the kit to 12 in. minimum.

ACCESSORY DOWNFLOW SUBBASE



Disassembled

A88207

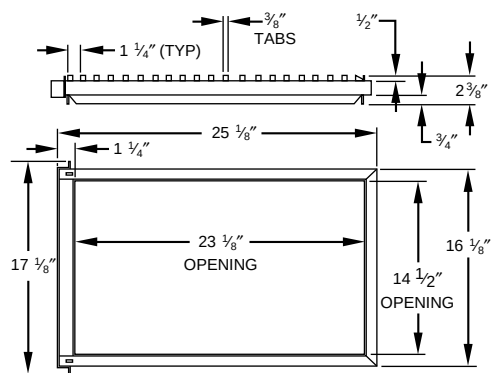


Assembled

A97427

FURNACE CASING WIDTH	FURNACE IN DOWNFLOW APPLICATION	PLENUM OPENING*		FLOOR OPENING		HOLE NO. FOR WIDTH ADJUSTMENT
		A	B	C	D	
17-1/2	Furnace with or without CD5 or CK5 Coil Assembly or KCAKC Coil Box	15-1/8	19	16-3/4	20-3/8	3
21	Furnace with or with CD5 or CK5 Coil Assembly or KCAKC Coil Box	18-5/8	19	20-1/4	20-3/8	2
24-1/2	Furnace with or without CD5 or CK5 Coil Assembly or KCAKC Coil Box	22-1/8	19	23-3/4	20-3/8	1

* The plenum should be constructed 1/4-in. smaller in width and depth than the plenum dimensions shown above.

SIDE FILTER RACK*

*Accepts one 16 x 25 x 1 in. filter.

A80199

AIR DELIVERY—CFM (With Filter)* AND POWER DRAW (WATTS)**

UNIT SIZE	OPERATING MODE	AIRFLOW CFM	External Static Pressure Range*	External Static Pressure (ESP)							
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
042040				Power Draw (WATTS)**							
	Low Heat	565 (650†)	0 – 0.26	59	79	94	—	—	—	—	—
	High Heat	780	0 – 0.49	96	123	149	172	197	—	—	—
	1-1/2-Ton A/C Setting	600	0 – 0.29‡	64	84	99	—	—	—	—	—
	2-Ton A/C Setting	800	0 – 0.51‡	102	129	155	179	204	230	—	—
	2-1/2-Ton A/C Setting	1000	0 – 0.80	164	191	225	256	292	321	354	396
	3-Ton A/C Setting	1200	0 – 0.80	255	294	328	367	404	447	485	524
	3-1/2-Ton A/C Setting	1400	0 – 0.43††	386	433	483	528	544	551	555	560
042060											
	Low Heat	515 (590†)	0 – 0.21	56	68	88	—	—	—	—	—
	High Heat	1010	0 – 0.80	177	199	237	263	283	315	352	375
	1-1/2-Ton A/C Setting	600	0 – 0.29‡	68	88	106	—	—	—	—	—
	2-Ton A/C Setting	800	0 – 0.51‡	118	136	156	179	198	223	—	—
	2-1/2-Ton A/C Setting	1000	0 – 0.80	174	196	232	259	279	309	348	370
	3-Ton A/C Setting	1200	0 – 0.80	266	294	338	358	395	427	453	498
	3-1/2-Ton A/C Setting	1400	0 – 0.52††	387	415	456	507	548	560	560	560
042080											
	Low Heat	690 (795†)	0 – 0.26	73	92	107	—	—	—	—	—
	High Heat	1345	0 – 0.64††	311	342	383	428	469	510	535	535
	1-1/2-Ton A/C Setting	600	0 – 0.20‡	59	78	—	—	—	—	—	—
	2-Ton A/C Setting	800	0 – 0.36‡	92	109	124	137	—	—	—	—
	2-1/2-Ton A/C Setting	1000	0 – 0.56‡	128	167	208	237	268	299	—	—
	3-Ton A/C Setting	1200	0 – 0.80‡	232	261	297	336	371	408	437	483
	3-1/2-Ton A/C Setting	1400	0 – 0.55††	345	377	427	470	513	535	535	535
060080											
	Low Heat	690 (795†)	0 – 0.25	93	111	132	—	—	—	—	—
	High Heat	1345	0 – 0.80	343	376	416	457	503	535	570	613
	2-Ton A/C Setting	800	0 – 0.34‡	114	136	163	189	—	—	—	—
	2-1/2-Ton A/C Setting	1000	0 – 0.53‡	175	200	232	264	295	324	—	—
	3-Ton A/C Setting	1200	0 – 0.76‡	263	294	333	365	404	429	474	506
	3-1/2-Ton A/C Setting	1400	0 – 0.80	375	410	457	501	544	579	629	679
	4-Ton A/C Setting	1600	0 – 0.80	524	579	631	691	733	791	832	883
	5-Ton A/C Setting	2000	0 – 0.32††	947	1034	1103	1110	1110	1110	1110	1073
060100											
	Low Heat	860 (990†)	0 – 0.34	105	121	138	161	—	—	—	—
	High Heat	1425	0 – 0.80	299	340	385	419	464	500	540	573
	2-Ton A/C Setting	800	0 – 0.29‡	96	112	127	—	—	—	—	—
	2-1/2-Ton A/C Setting	1000	0 – 0.46‡	130	154	176	194	220	—	—	—
	3-Ton A/C Setting	1200	0 – 0.66‡	191	220	253	284	326	357	395	—
	3-1/2-Ton A/C Setting	1400	0 – 0.80	286	322	369	403	447	481	522	556
	4-Ton A/C Setting	1600	0 – 0.80	410	468	507	544	588	642	678	720
	5-Ton A/C Setting	2000	0 – 0.37††	788	836	903	962	954	938	927	916
060120											
	Low Heat	1035 (1190†)	0 – 0.34	140	168	194	219	—	—	—	—
	High Heat	1710	0 – 0.80	474	519	562	601	652	690	735	780
	2-Ton A/C Setting	800	0 – 0.20‡	89	111	—	—	—	—	—	—
	2-1/2-Ton A/C Setting	1000	0 – 0.32‡	133	156	182	207	—	—	—	—
	3-Ton A/C Setting	1200	0 – 0.46‡	194	229	257	286	314	—	—	—
	3-1/2-Ton A/C Setting	1400	0 – 0.62‡	281	319	354	393	423	458	495	—
	4-Ton A/C Setting	1600	0 – 0.80	397	441	473	518	562	597	638	682
	5-Ton A/C Setting	2000	0 – 0.30††	740	799	824	835	846	861	872	888

* Actual external static pressure (ESP) can be determined by using the fan laws (CFM² proportional to ESP); such as, a system with 1010 CFM at 0.5 ESP would operate at cooling airflow of 800 CFM at 0.31 ESP and low-heating airflow of 515 CFM at 0.13 ESP. (See air delivery curves.)

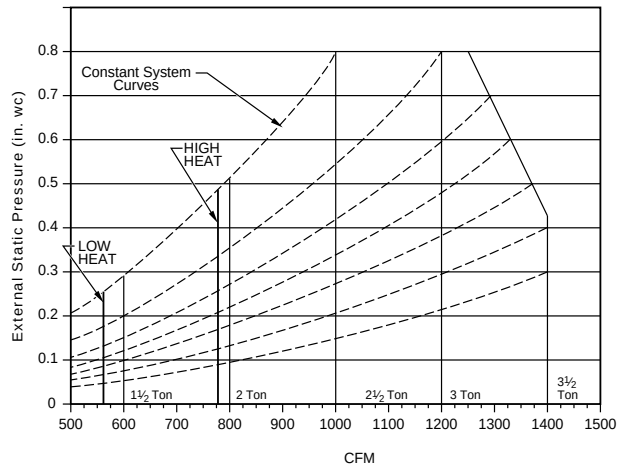
† Low heat CFM when bypass humidifier switch (SW3) on control center is used. The listed low-heating wattage is with bypass humidifier switch (SW3) OFF.

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

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

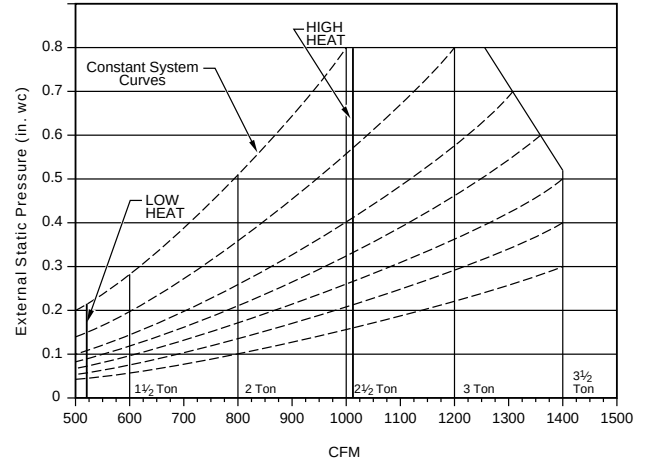
†† Refer to the air delivery curves for airflow CFM above this ESP.

AIR DELIVERY CURVE — 042040



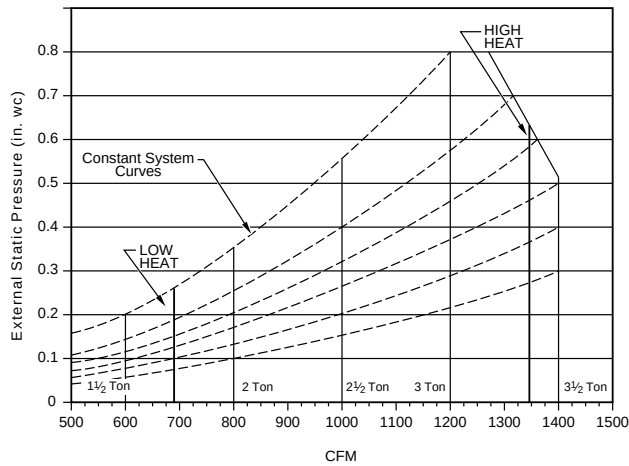
A93074

AIR DELIVERY CURVE — 042060



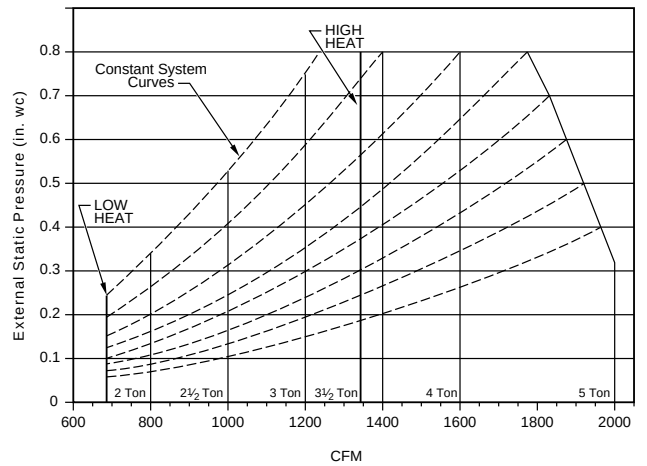
A97319

AIR DELIVERY CURVE — 042080



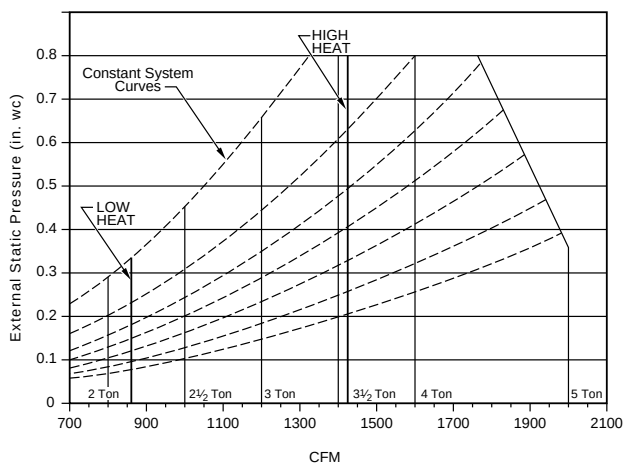
A97320

AIR DELIVERY CURVE — 060080



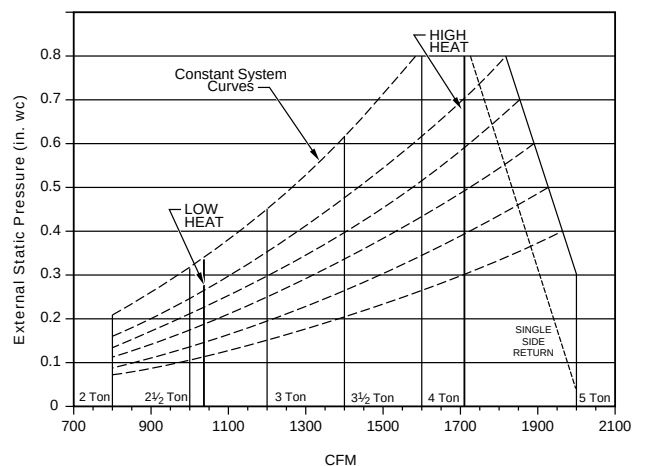
A97321

AIR DELIVERY CURVE — 060100



A97322

AIR DELIVERY CURVE — 060120



A98564

NOTE: Curves shown when; 1 side only, both sides, a combination of 1 side and bottom, or bottom only return-air openings of the furnace are used except as shown on the 060120 curve.

SERVICE TRAINING

Packaged Service Training programs are an excellent way to increase your knowledge of the equipment discussed in this manual, including:

- Unit Familiarization
- Maintenance
- Installation Overview
- Operating Sequence

A large selection of product, theory, and skills programs is available, using popular video-based formats and materials. All include video and/or slides, plus companion book.

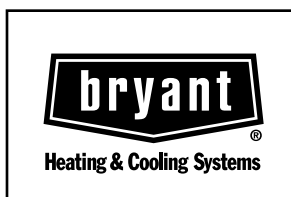
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A94328



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

UNIT MUST BE INSTALLED IN ACCORDANCE
WITH INSTALLATION INSTRUCTIONS

Cancels: PDS 355M.40.6