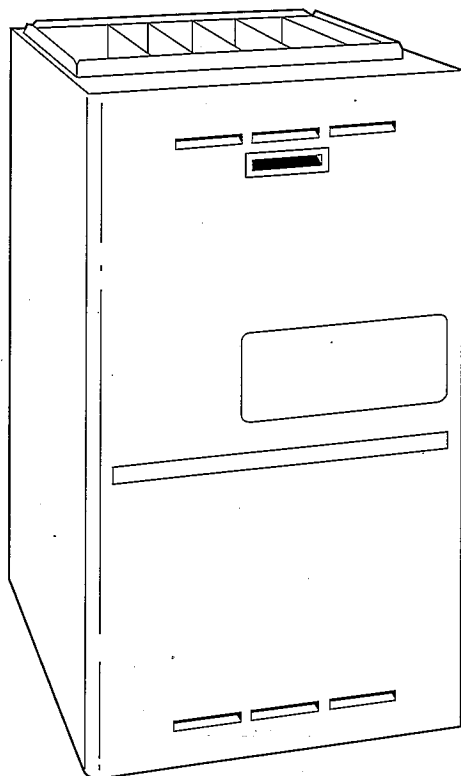




DELUXE 4-WAY MULTIPOISE VARIABLE-CAPACITY DIRECT-VENT CONDENSING GAS FURNACE

355MAV
Sizes 040, 060, 080, 100, and 120
Series C



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% 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. Simple changes in the drain connections are all it takes to change to any of the 4 possible positions.

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

ICM Electronic Variable-Speed Motors—Special motors (Integrated Control and Motor) 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 special 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 terminal to provide greater humidity control 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 Warranty on microprocessor control, variable-speed motors, and a 3-year Warranty on hot surface ignitor.

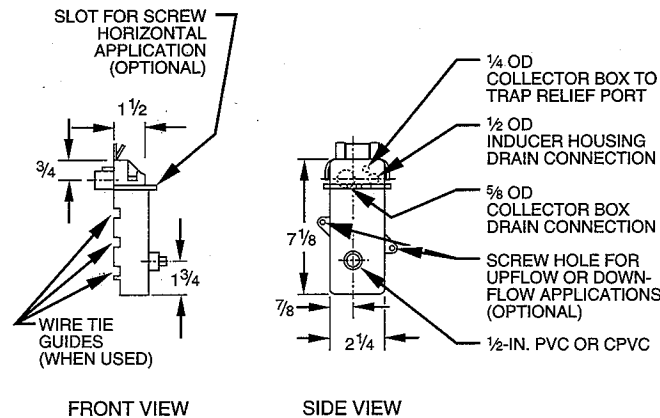
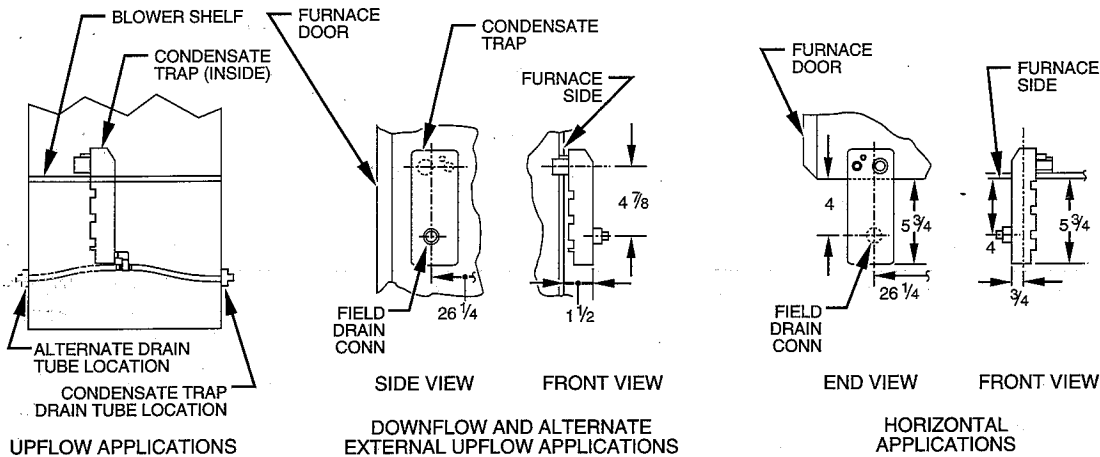
Monoport Inshot Burners—Produce precise air-to-gas mixture for clean burning. The large monoport on the inshot or injection-type burners seldom, if ever, needs cleaning.

Combustion Air and Ventilation—The 355MAV design is so advanced 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.

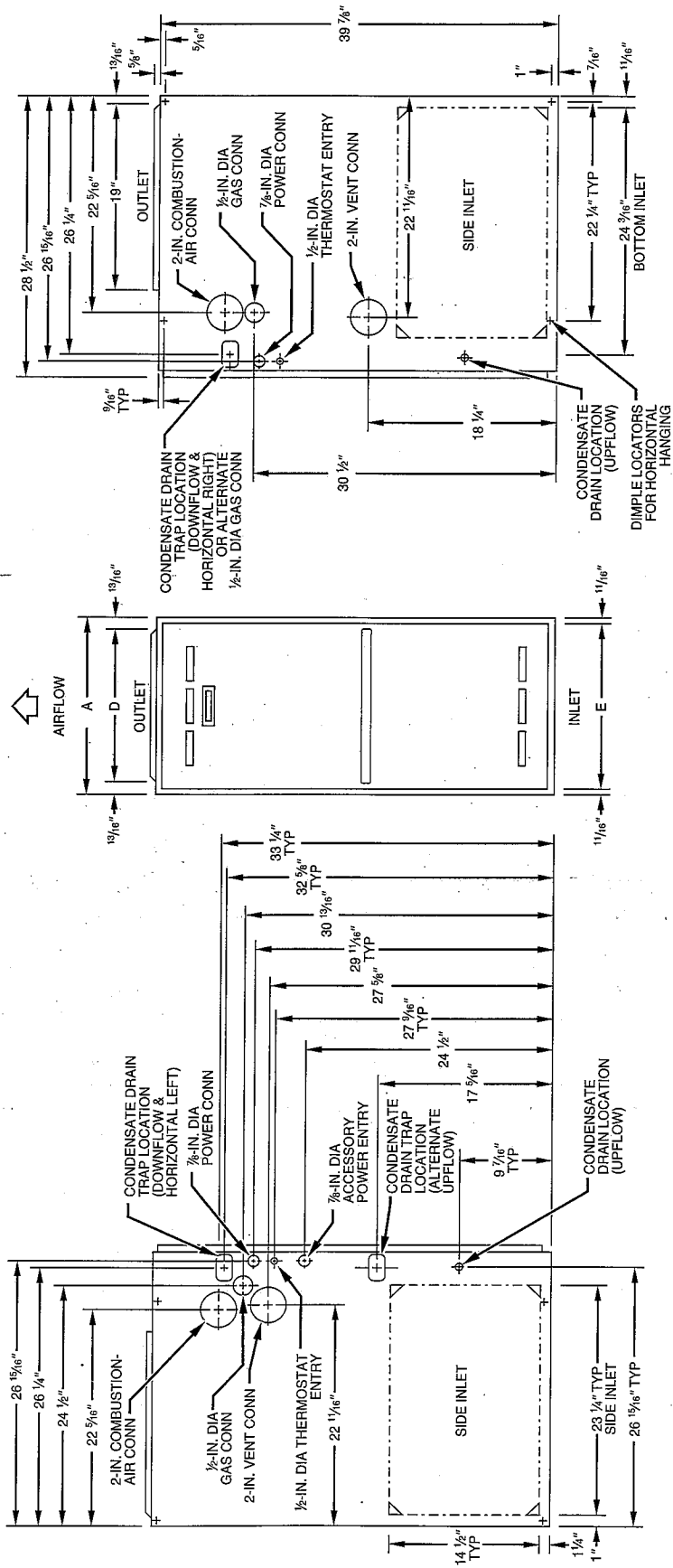
Fully-Insulated Casing—Foil-faced insulation in the heat exchanger section cuts the heat loss; double-density insulation in the blower section reduces noise levels. The casing also has the required openings for left- or right-side connection of gas, electric, drain, and vent connections.

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.

CONDENSATE TRAP



A93026



- NOTES:** Minimum return-air opening at furnace:
- For 800 CFM--16-in. round or 14 1/2 x 12-in. rectangle.
 - For 1200 CFM--20-in. round or 14 1/2 x 19 1/2-in. rectangle.
 - For 1600 CFM--22-in. round or 14 1/2 x 23 1/4-in. rectangle.
 - For airflow requirements above 1800 CFM, use both side inlets, a combination of 1 side inlet and the bottom, or the bottom only.

A93023

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). 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 direct-vent, forced-air furnace is for indoor installation in a building constructed on site or in a manufactured (mobile) home when using factory authorized kit, see rating plate.

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

TOP / PLENUM	BOTTOM	SIDES	BACK	FRONT	VENT	INSTALLATION
1	0	0	0	3*	0	UPFLOW
1	†	0	0	3*	0	DOWNFLOW
1	0 Ø	1§	0	3*	0	HORIZONTAL

† 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.

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

Horizontal position: 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 120,000 BTU Input Furnaces require 1 inch bottom clearance to combustible materials.

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

320611-101 REV. I

A96229



MEETS DOE RESIDENTIAL CONSERVATION SERVICES PROGRAM STANDARDS.

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



APPROVALS
ISO 9001
EN 29001
BS 5750 PART 1
ANSI/ASQC Q91

CERTIFICATE NO. FM 29652

As an ENERGY STARSM Partner, BDP Company has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

CERTIFICATION OF MANUFACTURING SITE

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)†	Low	25,000	37,000	49,000	49,000	61,000	73,000
	High	38,000	56,000	74,000	74,000	93,000	111,000
AFUE%‡		96.6	94.0	94.0	94.0	94.0	93.0
Certified Temperature Rise Range (°F)	Low	35—45	60—70	60—70	60—70	60—70	60—70
	High	40—50	50—60	50—60	50—60	60—70	60—70
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	925	1235	1235	1320	1585
	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					
Power Available	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)		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		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			
Sidewall Vent Terminal Cover (For 2 Pipes)		2-in.—KGAVT0301COV		3-in.—KGAVT0401COV			
Condensate Freeze Protection Kit		KGAHT0101CFP					
Side Filter Rack**** (Upflow ONLY)		KGAFR0206ALL					
Return-Air Drop Duct (Upflow ONLY)		KGARP0201ALL					
Advanced Product Monitor		KGAFP0101APM					
Electronic or Mechanical Air Cleaner****		Model AIRA, KEACA, MECH, or 902B					
Humidifier		Model 912D, 912E, 913B, 913C, or 914A					
Heat/Energy Recovery Ventilator		Model VA3B, VB5B, VC5B, or VL3A					
Thermostat		TSTATPP(N,P)AC01-A, TSTATPP(N,P)HP01-A, or TSTATPP(N,P)2S01-A					
Zoning		2-Zone—ZONEKIT2ZBDP		4-Zone—ZONEKIT4ZBDP			

* 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.

‡ Air delivery above 1800 CFM requires that both sides, a combination of 1 side and bottom, or bottom only of the furnace be used for return air. 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 fuse is recommended.

†††‡ Required for installation on combustible floors when no coil box is used, or when any coil box other than a BDP cased coil is used.

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

ICS—Isolated Combustion System.

ICM—Integrated Control and Motor.

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
7001 to 8000‡	042040	2 Pipe or 2-In. Concentric	2	31	26	21	16	11	6
			2-1/2	70	70	68	67	66	64
	042060	2 Pipe or 2-In. Concentric	3†	49	48	47	45	44	43
	042080 060080	2 Pipe or 2-In. Concentric	1-1/2	32	27	22	17	12	7
			2	66	65	63	62	60	59
8001 to 9000‡	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
9001 to 10,000‡	060120	2 Pipe or 3-In. Concentric	3†	46	44	43	41	40	38
	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
9001 to 10,000‡	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
	060120	2 Pipe or 3-In. Concentric	3†	43	41	39	37	35	34
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
9001 to 10,000‡	060100	2 Pipe or 2-In. Concentric	2	24	19	14	9	NA	NA
			2-1/2	57	55	53	51	49	47
	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.

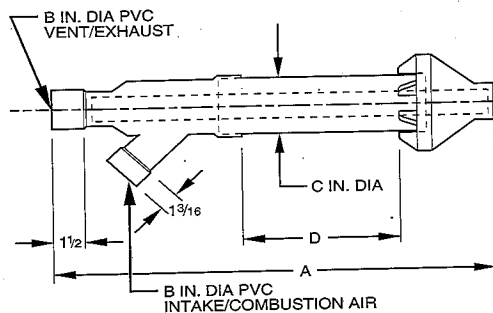
**MAXIMUM ALLOWABLE EXPOSED VENT PIPE LENGTH (FT)
WITH INSULATION IN WINTER DESIGN TEMPERATURE AMBIENT***

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



A93294

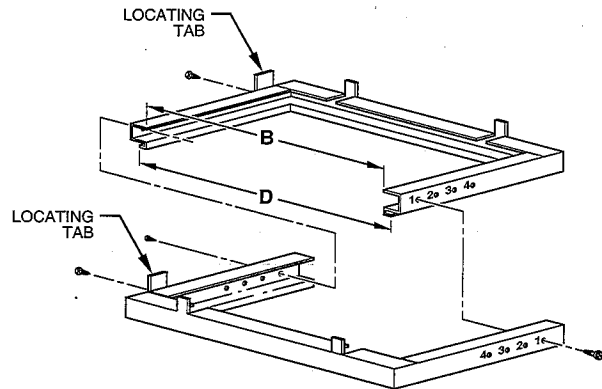
DIMENSIONS (IN.)

PART NO.	A*	B	C	D†
KGAVT0501CVT	41-1/8	2	3-1/2	27-1/4
KGAVT0601CVT	46-3/4	3	4-1/2	31-7/8

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

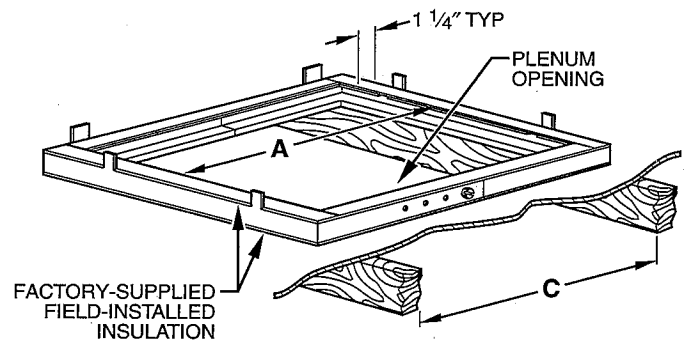
† Dimension D may be lengthened to 60 in. maximum. Dimension D may also be shortened by cutting the pipes provided in the kit to 12 in. minimum.

ACCESSORY DOWNFLOW SUBBASE



Disassembled

A88207



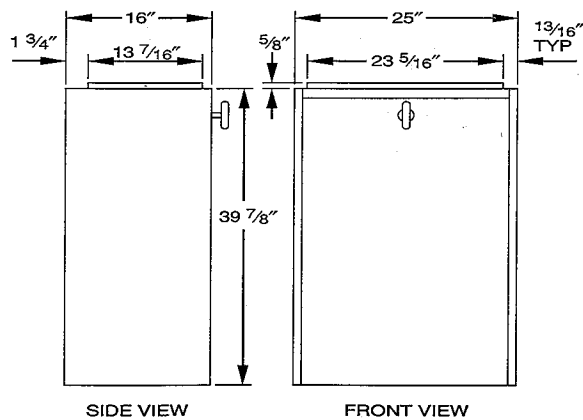
Assembled

A88206

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.

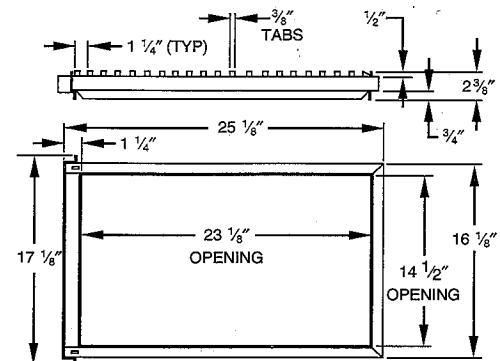
RETURN FILTER PLENUM*



*Includes two 20 x 25 x 1 in. washable filters.

A93078

SIDE FILTER RACK*



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

A80199

AIR DELIVERY—CFM (With Filter)*

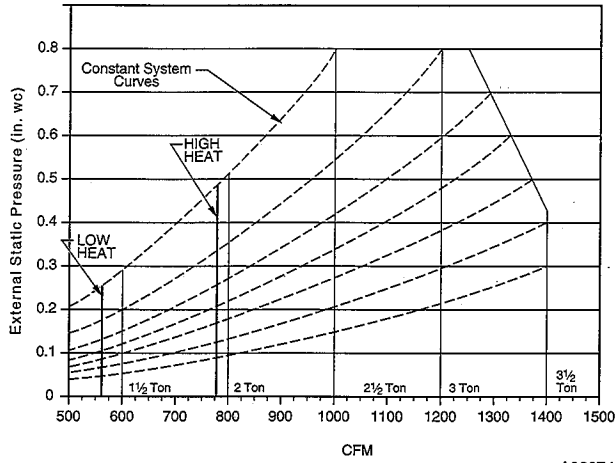
AIRFLOW CFM		OPERATIONAL EXTERNAL STATIC PRESSURE RANGE*
042040		
Low Heat	565 (650†)	0 – 0.26
High Heat	780	0 – 0.49
1-1/2-Ton A/C Setting	600	0 – 0.29‡
2-Ton A/C Setting	800	0 – 0.51
2-1/2-Ton A/C Setting	1000	0 – 0.80
3-Ton A/C Setting	1200	0 – 0.80
3-1/2-Ton A/C Setting	1400	0 – 0.43
042060		
Low Heat	515 (590†)	0 – 0.21
High Heat	925	0 – 0.68
1-1/2-Ton A/C Setting	600	0 – 0.29‡
2-Ton A/C Setting	800	0 – 0.51‡
2-1/2-Ton A/C Setting	1000	0 – 0.80
3-Ton A/C Setting	1200	0 – 0.80
3-1/2-Ton A/C Setting	1400	0 – 0.52
042080		
Low Heat	690 (795†)	0 – 0.26
High Heat	1235	0 – 0.80
1-1/2-Ton A/C Setting	600	0 – 0.20‡
2-Ton A/C Setting	800	0 – 0.36‡
2-1/2-Ton A/C Setting	1000	0 – 0.56‡
3-Ton A/C Setting	1200	0 – 0.80‡
3-1/2-Ton A/C Setting	1400	0 – 0.55
060080		
Low Heat	690 (795†)	0 – 0.25
High Heat	1235	0 – 0.80
2-Ton A/C Setting	800	0 – 0.34‡
2-1/2-Ton A/C Setting	1000	0 – 0.53‡
3-Ton A/C Setting	1200	0 – 0.76‡
3-1/2-Ton A/C Setting	1400	0 – 0.80
4-Ton A/C Setting	1600	0 – 0.80
5-Ton A/C Setting	2000	0 – 0.32
060100		
Low Heat	860 (990†)	0 – 0.34
High Heat	1320	0 – 0.80
2-Ton A/C Setting	800	0 – 0.29‡
2-1/2-Ton A/C Setting	1000	0 – 0.46‡
3-Ton A/C Setting	1200	0 – 0.66‡
3-1/2-Ton A/C Setting	1400	0 – 0.80
4-Ton A/C Setting	1600	0 – 0.80
5-Ton A/C Setting	2000	0 – 0.37
060120		
Low Heat	1035 (1190†)	0 – 0.34
High Heat	1585	0 – 0.80
2-Ton A/C Setting	800	0 – 0.20‡
2-1/2-Ton A/C Setting	1000	0 – 0.32‡
3-Ton A/C Setting	1200	0 – 0.46‡
3-1/2-Ton A/C Setting	1400	0 – 0.62‡
4-Ton A/C Setting	1600	0 – 0.80
5-Ton A/C Setting	2000	0 – 0.30

* Actual external static pressure (ESP) can be determined by using the fan laws (CFM² proportional to ESP); such as, a system with 925 CFM at 0.5 ESP would operate at cooling airflow of 800 CFM at 0.37 ESP and low-heating airflow of 515 CFM at 0.15 ESP. (See air delivery curves.)

† Low heat CFM when bypass humidifier switch (SW3) on control center is used.

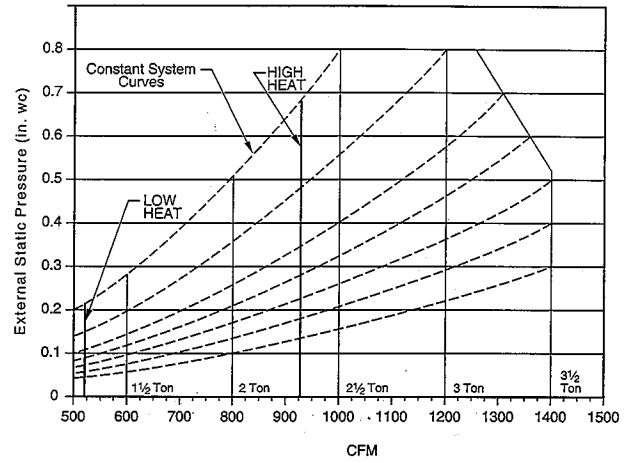
‡ Ductwork must be sized for high-heating CFM within the operational range of ESP.

AIR DELIVERY CURVE — 042040



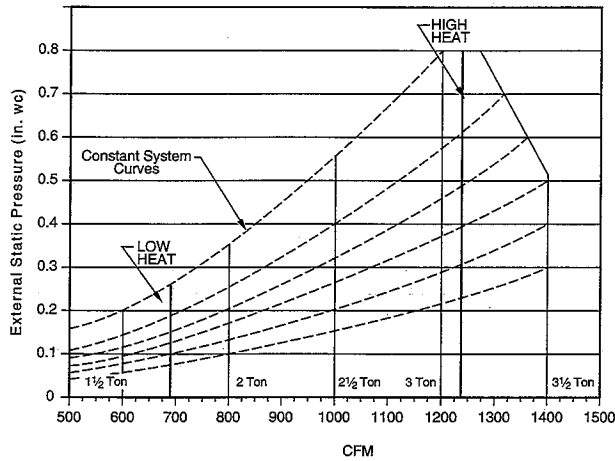
A93074

AIR DELIVERY CURVE — 042060



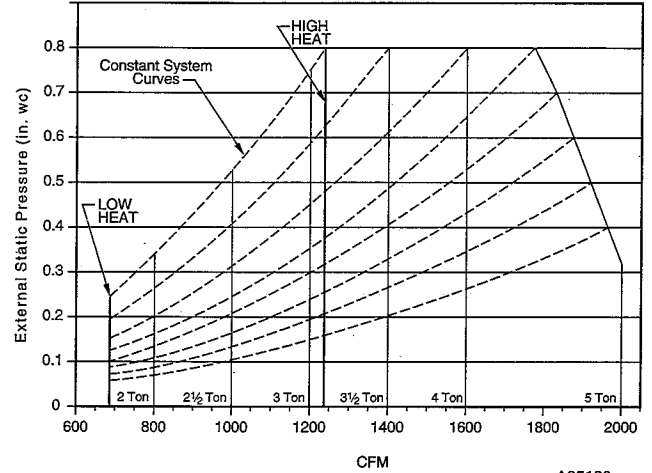
A93075

AIR DELIVERY CURVE — 042080



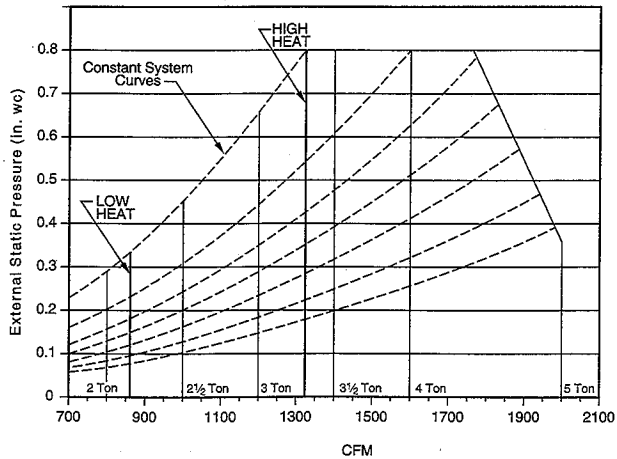
A93076

AIR DELIVERY CURVE — 060080



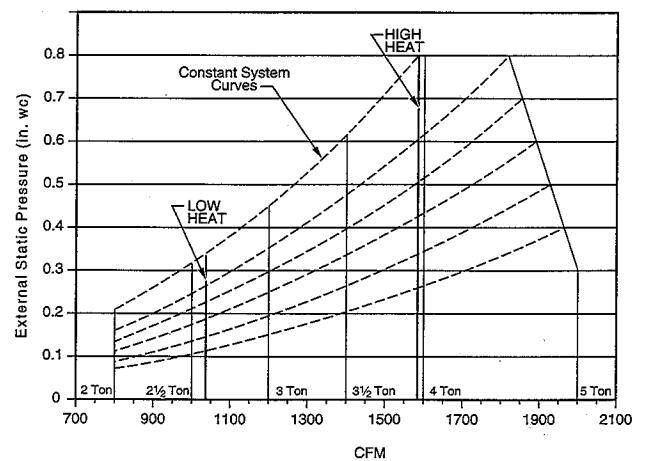
A95180

AIR DELIVERY CURVE — 060100



A93077

AIR DELIVERY CURVE — 060120



A95181

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

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A94328



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

UNIT MUST BE INSTALLED IN ACCORDANCE
WITH INSTALLATION INSTRUCTIONS

Cancels: PDS 355M.40.3P