


Aire-Flo 90™ GAS FURNACE

UPFLOW/HORIZONTAL OR DOWNFLOW/HORIZONTAL

Backed by over half of a century of experience, the Aire-Flo 90™ furnace combines high efficiency with quality craftsmanship. No wasteful pilot light, individually balanced blower wheels and quiet operation make this furnace one of the industry's unsung heroes. The furnace to take you into the future has always been one of the best.



FEATURES

- 90+% plus AFUE
- Size range 50,000 - 125,000
- 20 year limited warranty on heat exchangers*
- 5 year limited warranty on covered parts*
- Heavy gauge, textured, pre-painted cabinet provides corrosion protection
- Crimped aluminized steel, primary heat exchanger for longer life
- Corrosion resistant stainless steel secondary heat exchanger
- Time delay off for A/C SEER enhancement
- Upflow/horizontal left or downflow/horizontal right application
- Left or right side venting
- Honeywell® controls—Smart Valve™ System
- Solid state Honeywell® fan timer board
- 5 AMP fused circuit protection
- Two-wire twinning
- Sealed combustion
- AGA and CGA approved
- Electronic air cleaner and Aire-Flo™ humidifier hookups
- Three speed blower motor
- Common LP kit for all gas furnaces
- EPA Energy Star Product 
- Meets stringent Southern California emissions requirements without use of unreliable NOx rods or screens
- Works in either a single pipe or two-pipe unit configuration (Upflow/Horizontal model only)

* See warranty certificate for details.

Uncommonly Quiet

Individual balancing of each blower wheel, whisper burners, and the Honeywell® slow opening Smart Valves™ result in very quiet operation.

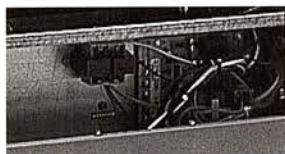
Honeywell® Smart Valve™

Only the amount of energy which is needed is used with Aire-Flo 90™ furnaces. There is no pilot light wasting gas or blowing out.

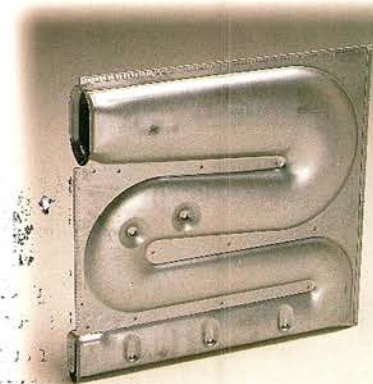


Easy Diagnostic Sleeve

The Aire-Flo diagnostic sleeve allows the service person to troubleshoot while the unit is running under normal operating conditions, thereby resulting in time and money savings on service calls.



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Crimped Heat Exchanger Seams

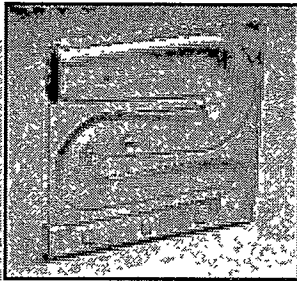
Our weld-free seam process creates a clean, virtually leak-free seal that is more reliable than conventional welding. The specially designed heat exchanger utilizes mechanical seams which are crimped, rather than welded. The crimp technique increases the life of the heat exchanger because it reduces stress that may develop with either arc or seam welding methods.

UNIT DIMENSIONS

MODEL NUMBER	LENGTH (INCHES)	WIDTH (INCHES)	HEIGHT (INCHES)
AF90MPA050U3/AF90MPA050C3	29 1/2	13 1/2	47 3/8
AF90MPA075U3/AF90MPA075C3	29 1/2	13 1/2	47 3/8
AF90MPA100U4/AF90MPA100C4	29 1/2	17	47 3/8
AF90MPA125U5/AF90MPA125C5	29 1/2	20 1/2	47 3/8

U=upflow/horizontal left
C=counterflow/horizontal right

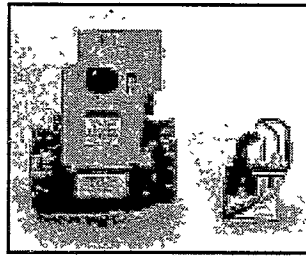
AIRE-FLO 90™ GAS FURNACES



1 Primary Heat Exchanger

The Aire-Flo furnace's specially designed aluminized steel heat exchanger utilizes mechanical seams that are crimped, rather than welded.

The crimp technique increases the life of the heat exchanger because it helps prevent stresses that are developed with either arc or seam welding methods. Aire-Flo gas furnaces feature a Limited Lifetime Heat Exchanger Warranty which is one of the best you'll find.



2 Honeywell® Smart Valve

Aire-Flo gas furnaces use only the amount of energy which is needed. There is no pilot light wasting gas or blowing out.

3 Easy Diagnostic Sleeve

Our latest innovation allows the service person to troubleshoot while the gas furnace is running, thereby resulting in time and money savings on service calls.



4 Sound

Aire-Flo gas furnaces are quiet! The blower wheels are manufactured and balanced prior to installation resulting in less vibration, and therefore less noise. The burners and heat exchanger are designed to eliminate start-up combustion noise. The overall result is a unit operating in near silence. Compare the sound!

5 Secondary Heat Exchanger

Our corrosion resistant, custom designed 29.4C stainless steel secondary heat exchanger extracts additional heat thus resulting in lower utility costs.



Visit us at www.Aireflo-hvac.com



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AIRE-FLO 90™ GAS FURNACES

UNIT SPECIFICATIONS

	AF90MPA050U3 AF90MPA050C3	AF90MPA075U3 AF90MPA075C3	AF90MPA100U4 AF90MPA100C4	AF90MPA125U5 AF90MPA125C5
GAS	NATURAL (LP WITH CONVERSION KIT)			
INPUT RATE (BTU per Hour)	50,000	75,000	100,000	125,000
HEATING CAPACITY (BTU per Hour)	46,000	67,000	88,000	110,000
AFUE (ISOLATED COMB. SYSTEM)	92%	92%	90%	90%
TEMPERATURE RISE	35-65 F	40-70 F	40-70 F	40-70 F
VOLTS / PHASE / HERTZ	115 /1/ 60			
STATIC PRESSURE	CERTIFIED FOR 0.50" W.C. MAXIMUM EXTERNAL STATIC			
AIR FLOW (w/o FILTER) @ .50" STATIC	1205CFM	1205CFM	1795CFM	2115CFM
BLOWER MOTOR HORSEPOWER	1/3	1/3	1/2	3/4
BLOWER WHEEL SIZE (DIA X WIDTH)	10" x 6"	10" x 6"	12" x 9"	12" x 12"
NUMBER OF HEAT EXCHANGERS	2"	3"	4"	5"
FLUE AND AIR INLET SIZE (O.D.) <i>SCHEDULE 40 PVC, CPVC OR ABS</i>	2"	2 1/2"	3"	
LIMIT CONTROL, SNAP DISK STYLE	170 F			
GAS VALVE / IGNITION CONTROL	HONEYWELL SV9501 SMART VALVE SYSTEM (1/2 X 1/2)*			
TRANSFORMER	40 VA. 115 VAC PRIMARY, 24 VAC SECONDARY, FOOT-MOUNTED			
MAXIMUM OUTLET TEMPERATURE	180 F			
LP CONVERSION KIT ACCESSORY	68L72			

* As of April 17,1998--date code 9816

FLOW RATE DATA

MODEL NUMBER	BLOWER SPEED	EXTERNAL STATIC									
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
AF90MPA050U3 AF90MPA050C3 (10 X 6 WHEEL) (1/3 HP MOTOR)	LOW MED HIGH	1080 1330 1490	1060 1280 1420	1030 1225 1360	1000 1175 1285	965 1110 1205	905 1040 1125	840 965 1070	765 875 985	655 770 880	525 630 750
AF90MPA075U3 AF90MPA075C3 (10 X 6 WHEEL) (1/3 HP MOTOR)	LOW MED HIGH	1080 1330 1490	1060 1280 1420	1030 1225 1360	1000 1175 1285	965 1110 1205	905 1040 1125	840 965 1070	765 875 985	655 770 880	525 630 750
AF90MPA100U4 AF90MPA100C4 (12 X 9 WHEEL) (1/2 HP MOTOR)	LOW MED HIGH	1420 1715 2055	1400 1690 2020	1360 1665 1945	1335 1610 1865	1290 1550 1795	1245 1480 1710	1190 1400 1640	1120 1320 1535	1060 1245 1410	995 1145 1340
AF90MPA125U5 AF90MPA125C5 (12 X 12 WHEEL) (3/4 HP MOTOR)	LOW MED HIGH	1425 1980 2395	1400 1940 2340	1375 1895 2275	1345 1835 2209	1320 1785 2115	1290 1720 2025	1245 1645 1925	1185 1575 1825	1120 1475 1720	1035 1385 1610

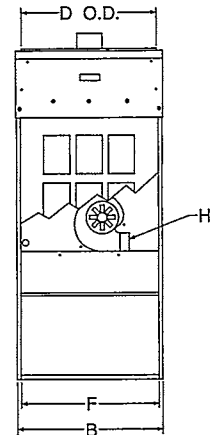
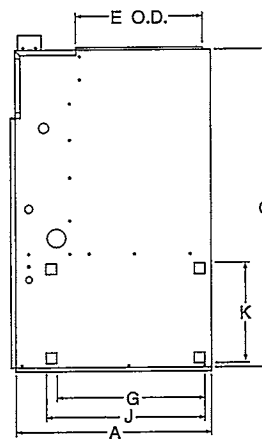
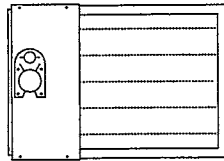
NOTES: 1) Air flow values in cubic feet per minute (CFM), rounded to nearest five (5) CFM
2) Data taken without filters in place

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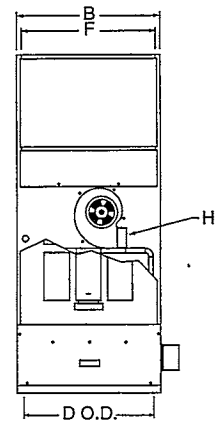
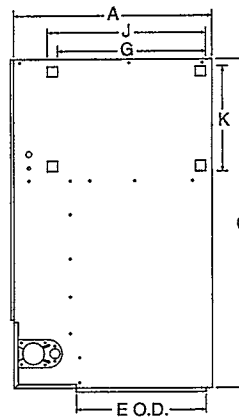
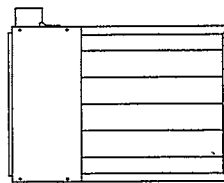
GENERAL LAYOUT

MODEL NUMBER	UNIT DIMENSIONS			SUPPLY DUCT OPENING		RETURN DUCT OPENING		FLUE DIA.	SIDE RETURN CUT-OUT	
	LENGTH	WIDTH	HEIGHT	D	E	F	G		J	K
AF90MPA050U3 AF90MPA050C3	29	13 1/2	47 3/8	11 1/2	18 15/16	11 5/8	21 3/8	2	23 1/4	15
AF90MPA075U3 AF90MPA075C3	29	13 1/2	47 3/8	11 1/2	18 15/16	11 5/8	21 3/8	2 2 1/2	23 1/4	15
AF90MPA100U4 AF90MPA100C4	29	17	47 3/8	15	18 15/16	15 1/8	21 3/8	3	23 1/4	15
AF90MPA125U5 AF90MPA125C5	29	20 1/2	47 3/8	18 1/2	18 15/16	18 5/8	21 3/8	3	23 1/4	15

UPFLOW/HORIZONTAL LEFT



DOWNFLOW/HORIZONTAL RIGHT



NOTE: Dimensions are in inches