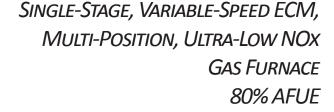


# AMVS80-U

# HEATING INPUT : 60,000 - 80,000 BTU/H





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#### **Standard Features**

- Integrated communicating ComfortBridge<sup>™</sup> Technology
- Commissioning and diagnostics via indoor board Bluetooth with the CoolCloud<sup>™</sup> phone and tablet application
- Heavy-duty stainless-steel, dual-diameter tubular heat exchanger
- Single-stage gas valve
- Durable Hot-surface igniter
- Quiet, modulating draft inducer
- Self-diagnostic control board
- Variable-speed ECM blower motor
- Eligible for installation in California's South Coast Air Quality Management District (SCAQMD) and San Joaquin Valley Air Pollution Control District (SJVUAPCD). This furnace complies with the 14 ng/J NOx emission limit in SCAQMD Rule 1111 and SJVUAPCD Rule 4905.
- EMI line filter kit must be installed. (It is intended for field installation only on "VS" model, Bluetooth® capable Ultra Low NOx Gas Furnaces. The purpose of the EMI Filter is to reduce electromagnetic interference between the furnace and other electrical devices)
- AHRI Certified; ETL Listed

#### **Cabinet Features**

- Installation: upflow, horizontal left or right
- Convenient left or right connection for gas and electrical service
- Heavy-gauge steel cabinet with durable baked-enamel finish
- Foil faced insulated heat exchanger



Complete warranty details available from your local dealer or at www.amana-hac.com. To receive the Lifetime Unit Replacement Limited Warranty, Lifetime Heat Exchanger Limited Warranty (in each case, good for as long as you own your home), and 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Quebec.

	Α	м	v	S	80	040	4	С	*	**	
	1	2	3	4	5,6	7,8,9	10	11	12	13,14	
Brand											Engineering
A- Amana® Brand										L	Major /Minor Revisions * Not used for inventory control.
CONFIGURATION											NOx
M- Upflow/Horizontal											N- Natural Gas
C- Downflow/Horizontal											X- Low NOx
											U- Ultra-Low NOx
Motor											CABINET WIDTH
V- Variable Speed ECM / 0	Comfortl	Bridge™									A- 14" C- 21"
E- Multi-Speed ECM	S- Sing	le Speed									B- 17½" D- 24½"
GAS VALVE											MAXIMUM CFM
M- Modulating	S- Sing	le Stage							2-	800 CFM	4- 1600 CFM
C- Two Stage									3-	1200 CFM	5- 2000 CFM
AFUE											MBTU/H
80- 80% AFUE					1			0	40- 40,00	00 BTU/h	100- 100,000 BTU/h
								0	60- 60,00	00 BTU/h	
									80- 80,00		

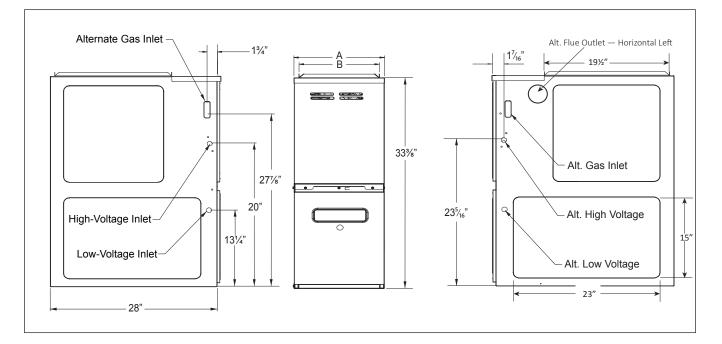
	AMVS80 0604BU*	AMVS80 0805CU*
HEATING CAPACITY		
Input	60,000	80,000
Natural Gas Output	48,000	64,000
AFUE <sup>1</sup>	80	80
Available AC @ 0.5" ESP	1.5 - 4.0	2.0 - 5.0
Temperature Rise Range (°F)	20 - 50	35 - 65
CIRCULATOR BLOWER		
Size (D x W)	10" x 8"	10" x 10"
Horsepower	3/4	3/4
Speed	Variable	Variable
Vent Diameter <sup>2</sup>	4"	4"
No. of Burners	1 Burner, 3 tubes	1 Burner, 4 tubes
Minimum Filter Size	(1) 16 x 25 (side or bottom)	(1) 20 x 25 (bottom) or (2) 16 x 25 (side)
ELECTRICAL DATA		
Min. Circuit Ampacity <sup>3</sup>	11.6	11.6
Max. Overcurrent Device (amps) <sup>4</sup>	15	15
Ship Weight (lbs)	112	127

<sup>1</sup> For Use With Natural Gas Only. For altitudes + 4500' above sea level, see installation manual.

- <sup>2</sup> DOE AFUE based upon Isolated Combustion System (ICS)
- <sup>3</sup> Minimum Circuit Ampacity = (1.25 x Circulator Blower Amps) + ID Blower amps. Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.
- <sup>4</sup> Maximum Overcurrent Protection Device refers to maximum recommended fuse or circuit breaker size. May use fuses or HACR-type circuit breakers of the same size as noted.

#### NOTES

- All furnaces are manufactured for use on 115 VAC, 60 Hz, single-phase electrical supply.
- Gas Service Connection ½" FPT
- Important: Size fuses and wires properly and make electrical connections in accordance with the National Electrical Code and/or all existing local codes.



Model	А	В
AMVS800604BU*	17½"	16″
AMVS800805CU*	21"	19½"

#### NOTES

• Line voltage wiring can enter through the right or left side of furnace. Low-voltage wiring can enter through the right or left side of furnace.

### MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS

<b>C</b> -2-2	<b>D</b>	<b>F</b> = ou=1	VE	NT <sup>2</sup>	Too
SIDES	REAR	FRONT <sup>1</sup>	sw	В	Тор
1"	0"	3″	6"	1"	1"

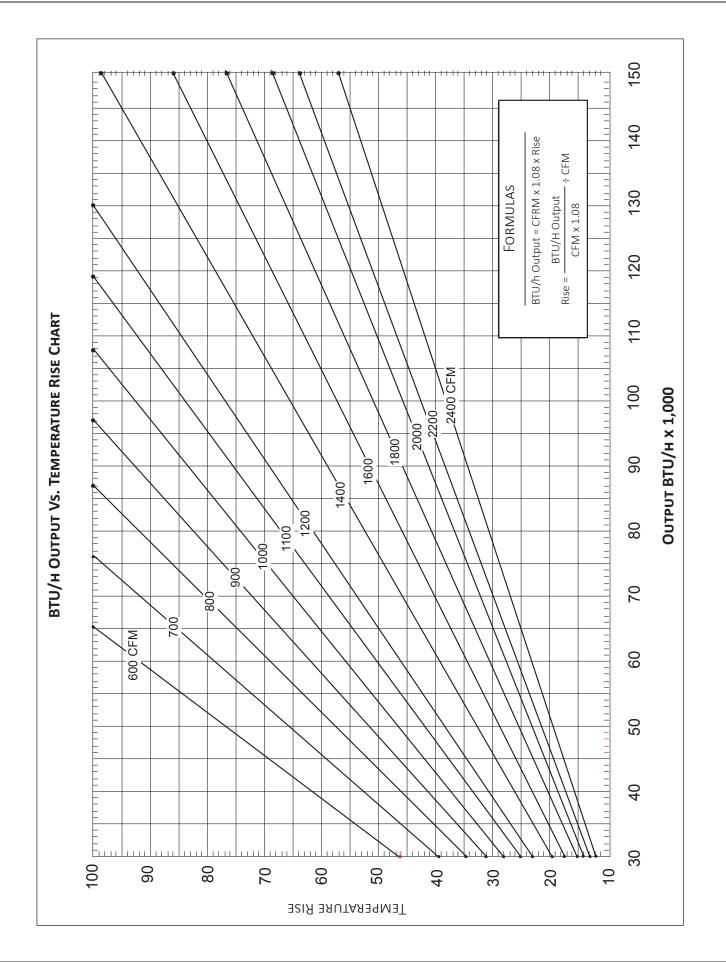
<sup>1</sup> 24" clearance for serviceability recommended.

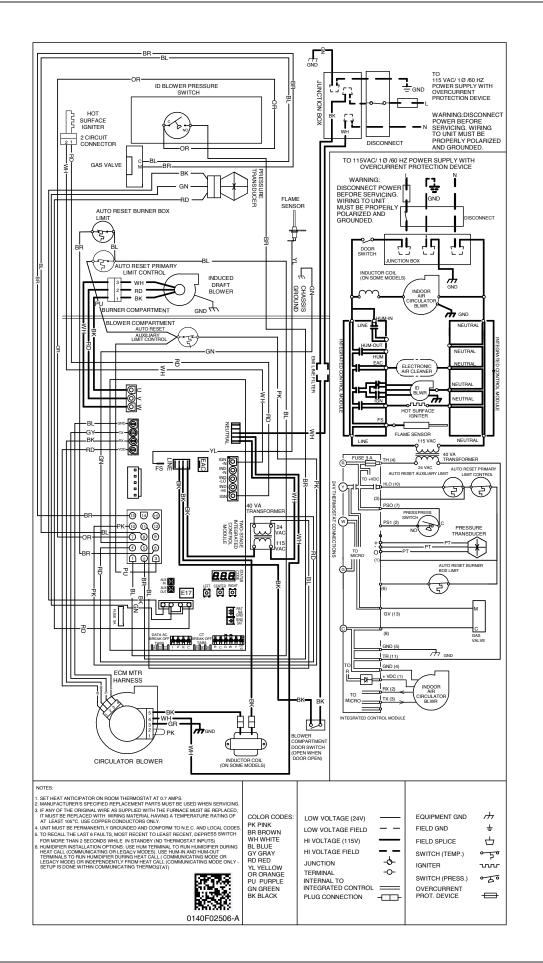
<sup>2</sup> Single Wall Vent (SW) to be used only as a connector. Refer to the latest editions of the National Fuel Gas Code NFPA 54/ ANSI Z223.1 (in the USA) and the Canada National Standard of Canada, CAN/CSA B149.1 and CAN/CSA B142.2 (in Canada).

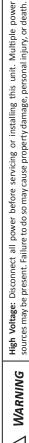
Note: AMVS80 approved for line contact in the horizontal position.

MODEL / TEMP RISE RANGE (MID RISE)	AMVS80 20-50		AMVS800805CU 35-65-(50)		
	CFM	RISE	CFM	RISE	
Recommended CFM & Expected Temperature Rise	1524	35	1760 (MAX CAPABLE CFM)	40	
Minimum Recommended Heating CFM & Expected Temperature Rise	1067	50	1422	50	
Maximum Recommended Heating CFM & Expected Temperature Rise	1760 (MAX CAPABLE CFM)	25	1760 (MAX CAPABLE CFM)	40	

**Note:** To Set Heating CFM Using Push Buttons; 1) Scroll using Left or Right push buttons until gAF appears on the 7 segment display. 2) Press & release center button & display will show current heating airflow expressed as a percentage of max CFM.3) Press & release Left or Right button until desired percentage appears. 4) Press & release center button once more to select the displayed percentage. 5) CFM may be trimmed further by using the gTF menu.







A

Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

Model	DESCRIPTION	AMVS80 0604BU*	AMVS80 0805CU*
AFE18-60A	Fossil Fuel Kit	٧	٧
MVK-01 *	Masonry Vent Kit	٧	٧

\* Upflow applications only

## **MINIMUM FILTER SIZES**

MODEL #	AMVS80 0604BU*	AMVS80 0805CU*
Filter Size (in <sup>2</sup> )	(1) 16 x 25 (Side or Bottom)	(2) 16 x 25 (Side) or (1) 20 x 25 (Bottom) <sup>1</sup>

Note: Larger filters may be used; filters may also be centrally located.

<sup>1</sup> Use 2-16 x 25 filters on side returns or 20 x 25 filter on bottom return if furnace is connected to a cooling unit over 4 tons nominal capacity.

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