

HEATING INPUT : 60,000 – 80,000 BTU/H

**SINGLE-STAGE, VARIABLE-SPEED ECM,
MULTI-POSITION, ULTRA-LOW NOX
GAS FURNACE
80% AFUE**



Contents

Nomenclature.....	2
Product Specifications.....	3
Dimensions	4
Airflow Data	5
Wiring Diagrams	7
Accessories	8
Minimum Filter Sizes	8

Standard Features

- Integrated communicating ComfortBridge™ Technology
- Commissioning and diagnostics via indoor board Bluetooth with the CoolCloud™ 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



COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
= ISO 9001 =

COMPANY WITH
ENVIRONMENTAL SYSTEM
CERTIFIED BY DNV GL
= ISO 14001 =

* 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.

	A	M	V	S	80	040	4	C	*	**	
	1	2	3	4	5,6	7,8,9	10	11	12	13,14	
BRAND											ENGINEERING
A- Amana® Brand											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 / ComfortBridge™											A- 14" C- 21"
E- Multi-Speed ECM S- Single Speed											B- 17½" D- 24½"
GAS VALVE											MAXIMUM CFM
M- Modulating S- Single Stage											2- 800 CFM 4- 1600 CFM
C- Two Stage											3- 1200 CFM 5- 2000 CFM
AFUE											MBTU/h
80- 80% AFUE											040- 40,000 BTU/h 100- 100,000 BTU/h
											060- 60,000 BTU/h
											080- 80,000 BTU/h

	AMVS80 0604BU*	AMVS80 0805CU*
HEATING CAPACITY		
Input	60,000	80,000
Natural Gas Output	48,000	64,000
AFUE ¹	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 ²	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 ³	11.6	11.6
Max. Overcurrent Device (amps) ⁴	15	15
SHIP WEIGHT (LBS)	112	127

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

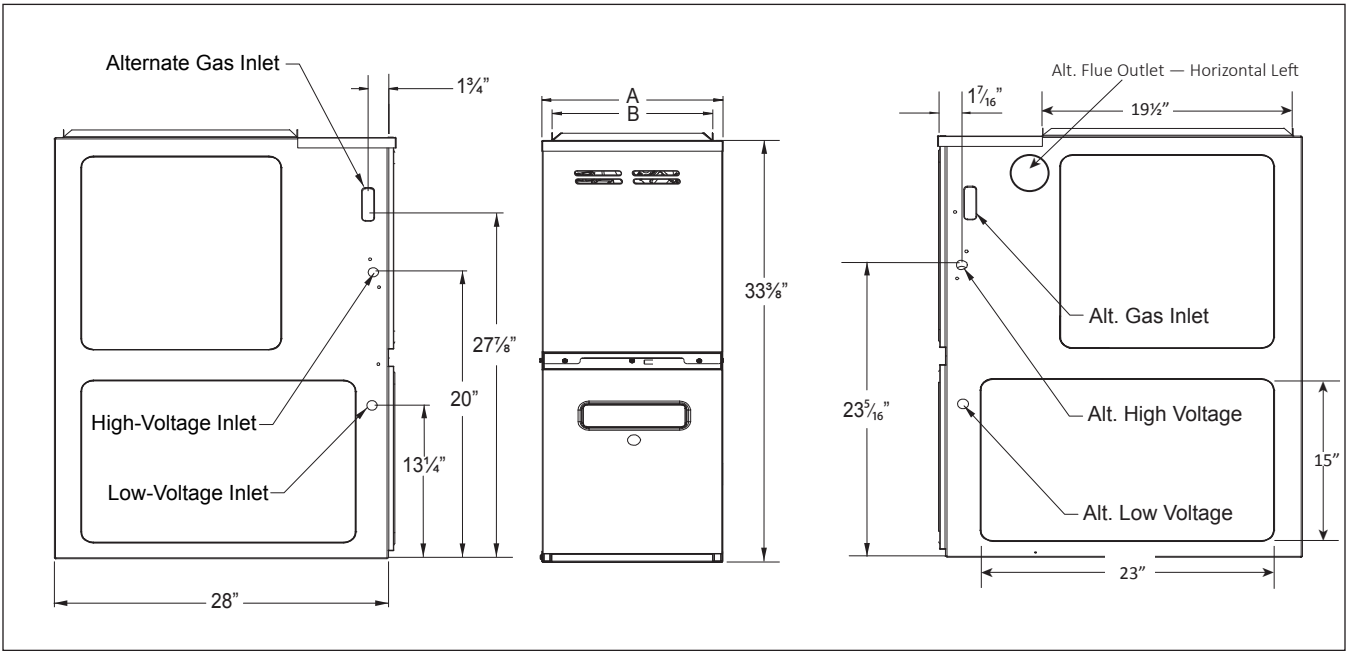
² DOE AFUE based upon Isolated Combustion System (ICS)

³ 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.

⁴ 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	A	B
AMVS800604BU*	17 1/2"	16"
AMVS800805CU*	21"	19 1/2"

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

SIDES	REAR	FRONT ¹	VENT ²		TOP
			SW	B	
1"	0"	3"	6"	1"	1"

¹ 24" clearance for serviceability recommended.

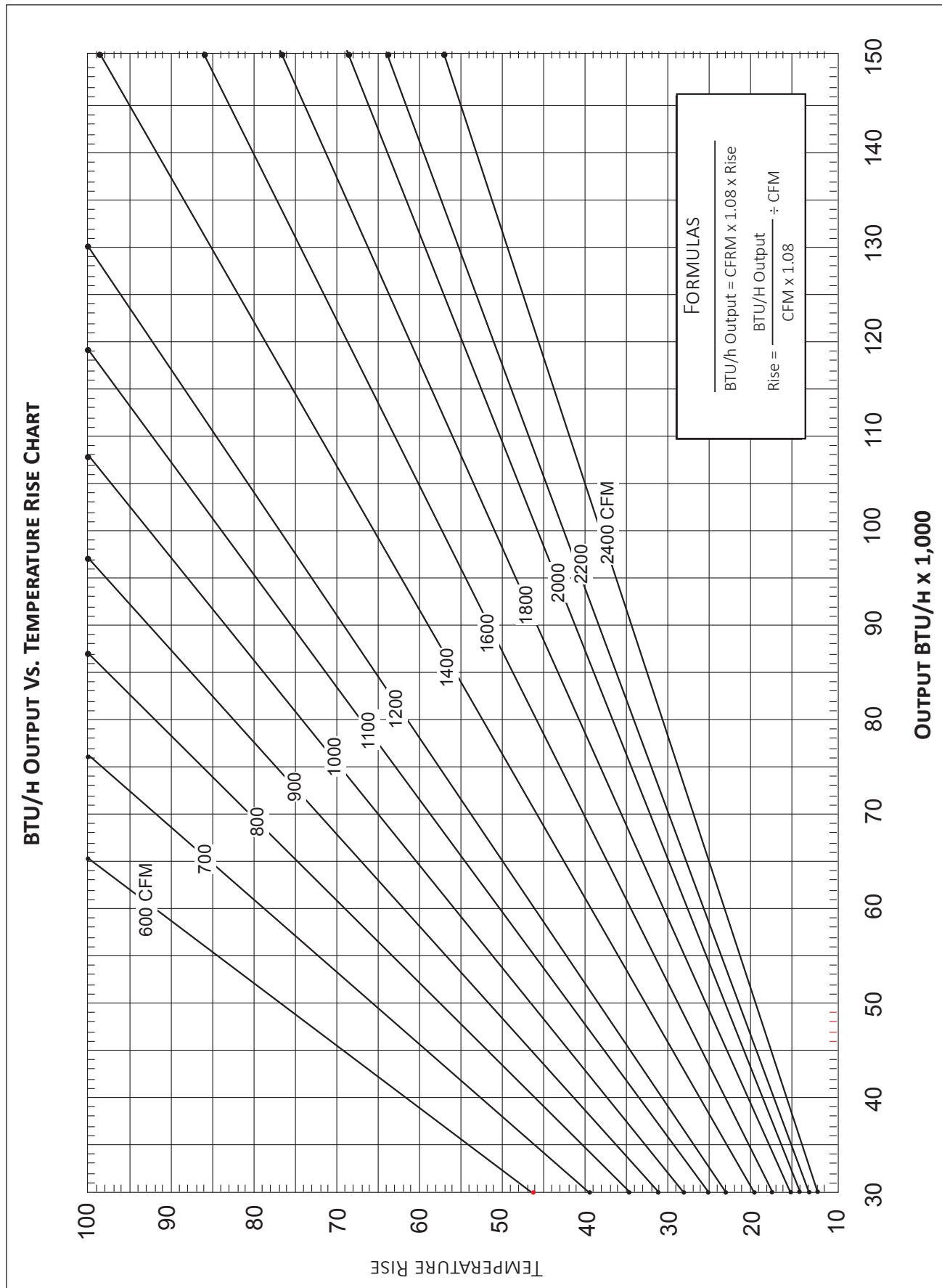
² Single Wall Vent (SW) to be used only as a connector. Refer to the latest editions of the National Fuel Gas Code NFPA 54/ ANSI Z223.1 (in the USA) and the Canada National Standard of Canada, CAN/CSA B149.1 and CAN/CSA B142.2 (in Canada).

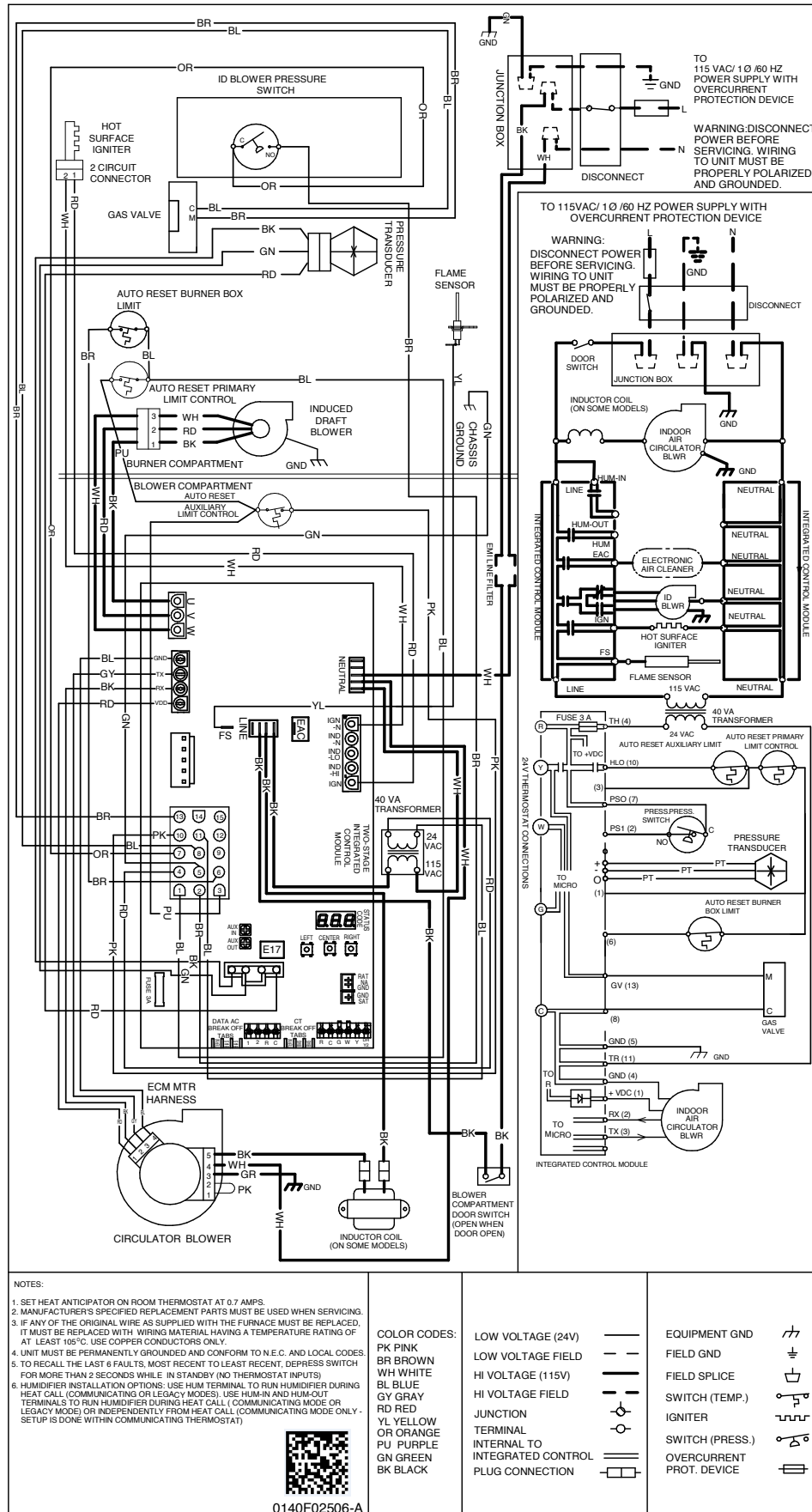
Note: AMVS80 approved for line contact in the horizontal position.

MODEL / TEMP RISE RANGE (MID RISE)	AMVS800604BU 20-50 (35)		AMVS800805CU 35-65-(50)	
	CFM	RISE	CFM	RISE
Recommended CFM & Expected Temperature Rise	1270	35	1200	50
Minimum Recommended Heating CFM & Expected Temperature Rise	1140	40	1080	50

Note: To Set Heating CFM Using Push Buttons;

- 1) Scroll using Left or Right push buttons until gTF appears on the 7 segment display.
- 2) Press & release center button & display will show current heating airflow trim 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.





WARNING

High Voltage: Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

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

ACCESSORIES

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

* Upflow applications only

MINIMUM FILTER SIZES

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

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

¹ 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.