



Air Conditioning & Heating

GRVS80-U

HEATING INPUT: 60,000–80,000 BTU/H



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



R32

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

LIFETIME
HEAT EXCHANGER
LIMITED WARRANTY*

10
YEAR
UNIT
REPLACEMENT
LIMITED
WARRANTY*

10
YEAR
PARTS
LIMITED
WARRANTY*



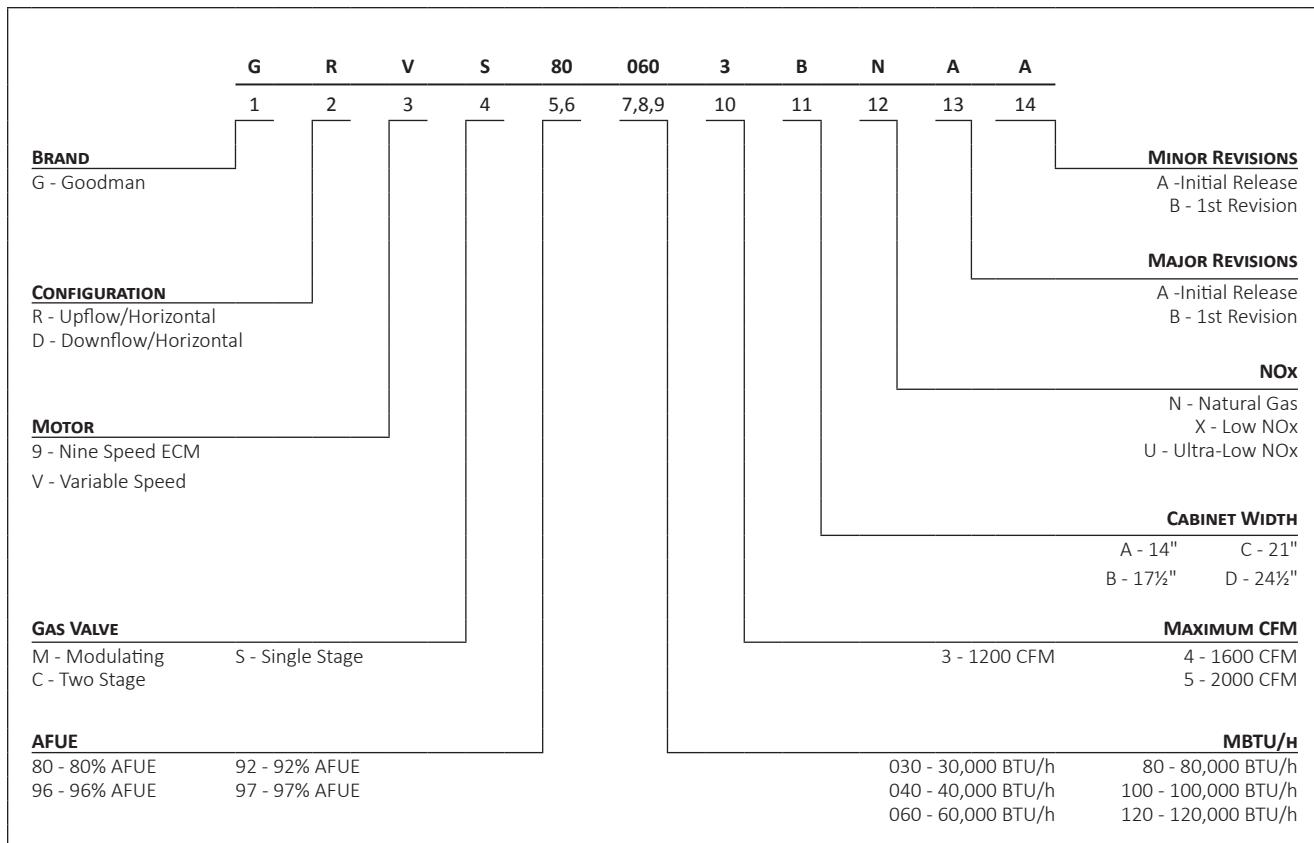
COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
■ ISO 9001 ■

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 Heat Exchanger Limited Warranty (good for as long as you own your home), 10-Year Unit Replacement Limited Warranty and 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration and some of the additional requirements are not required in Florida, California, or Québec. The duration of warranty coverage in Texas and Florida differs in some cases. Other limitations and exclusions apply; refer to complete warranty details for a full list of limitations and exclusions.

NOMENCLATURE



	GRVS80 0604BUA*	GRVS80 0805CUA*
HEATING CAPACITY		
Input (BTU/h) ¹	60,000	80,000
Output (BTU/h) ¹	48,000	64,000
AFUE ²	80	80
Available AC @ 0.5" ESP	1.5 - 3.0	2.0 - 5.0
Temp 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 ³	4"	4"
No. of Burners	1 Burner, 3 tubes	1 Burner, 4 tubes
ELECTRICAL DATA		
Min. Circuit Ampacity ⁴	12.2	12.2
Max. Overcurrent Device (amps) ⁵	20	20
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 Vent diameters may vary depending upon vent length. 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).

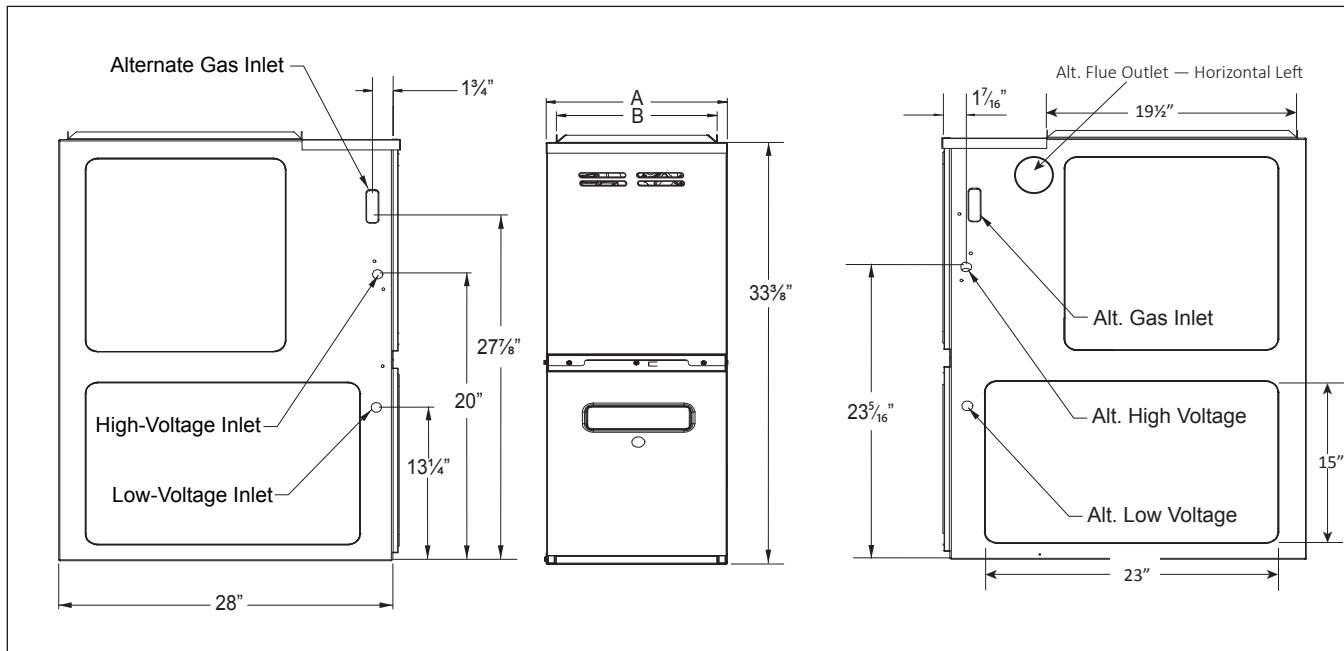
⁴ Minimum Circuit Ampacity = (1.25 x Circulator Blower Amps) + ID Blower amps. Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.

⁵ 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.

GRVS80-U DIMENSIONS



MODEL	DIMENSIONS			HEIGHTS	
	W	D	H	A	B
GRVS800604BUA*	17 1/2"	28"	33 5/8"	17 1/2"	16"
GRVS800805CUA*	21"	28"	33 5/8"	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	BOTTOM	VENT ²		TOP
				SW	B	
1"	0"	3"	C	6"	1"	1"

C = If placed on combustible floor, the floor MUST be wood ONLY.

Notes:

- For servicing or cleaning, a 24" front clearance is recommended.
- Unit connections (electrical, flue, and drain) may necessitate greater clearances than the minimum clearances listed above.
- In all cases, accessibility clearance must take precedence over clearances from the enclosure where accessibility clearances are greater.
- Refer to the appropriate USA and Canadian codes:

In the USA: the National Fuel Gas Code NFPA 54 / ANSI Z223.1

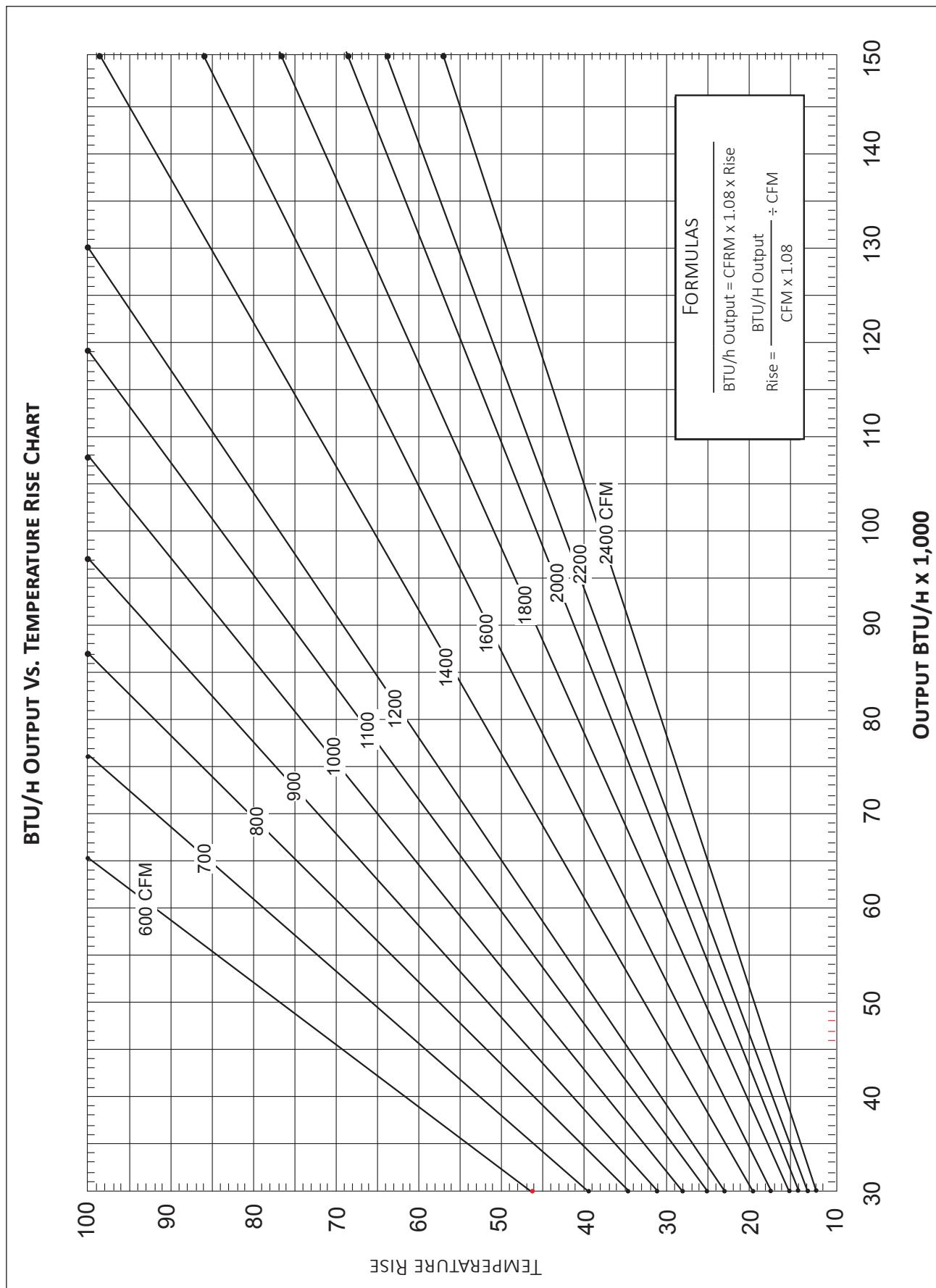
In Canada: the Canada National Standard of Canada, CAN/CSA B149.1 and CAN/CSA B142.2

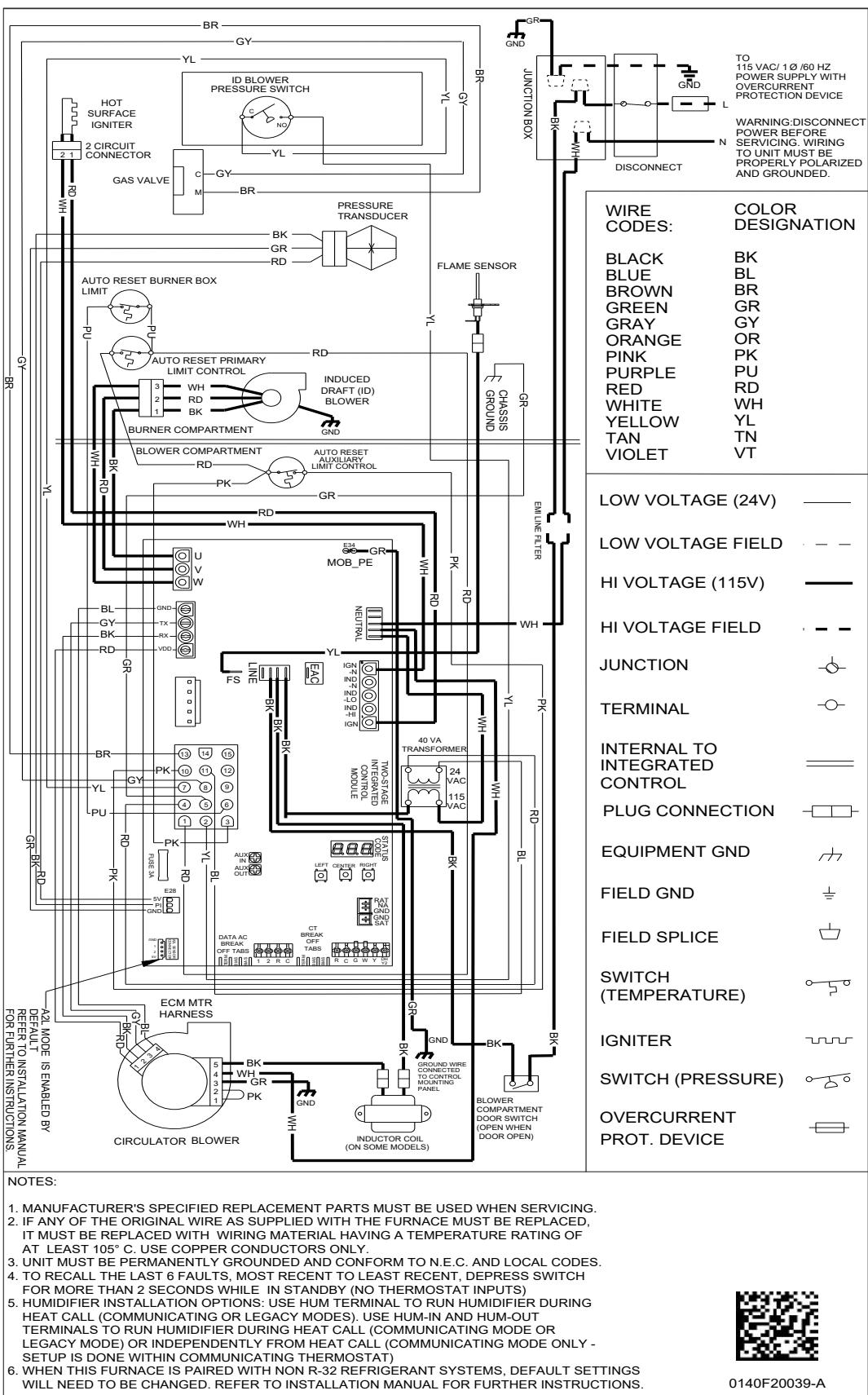
MODEL / TEMP RISE RANGE (MID RISE)	GRVS800604BU 20-50 (35)	GRVS800805CU 35-65 (50)		
	CFM	RISE	CFM	RISE
Recommended CFM & Expected Temperature Rise	1270	35	1200	50
Minimum Recommended Heating CFM & Expected Temperature Rise	1140	40	1080	50

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.

TEMPERATURE RISE RANGE CHART





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



0140F20039-A

ACCESSORIES

MODEL	DESCRIPTION	GRVS80 0604BU*	GRVS80 0805CU*
AFE18-60A	Fossil Fuel (Dual Fuel) Kit	✓	✓
MVK-01	Masonry Vent Kit	✓	✓

* Upflow applications only

MINIMUM FILTER SIZES

MODEL #	GRVS80 0604BU*	GRVS80 0805CU*
Filter Size (in)	(1) 16 x 25 (Side or Bottom)	(2) 16 x 25 (Side) or (1) 20 x 25 (Bottom) ¹

Note: Other size filters of equal or greater surface area 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.