



Air Conditioning & Heating

GRVS96-U

HEATING INPUT: 60,000 – 80,000 BTU/H

ULTRA LOW NO_x, VARIABLE-SPEED,
ECM GAS FURNACE
UP TO 96% AFUE



R32

Standard Features

- Heavy-duty stainless-steel tubular heat exchanger
- Super-ferritic Stainless-steel secondary heat exchanger
- Single-stage gas valve
- Durable Silicon Nitride igniter
- Quiet multi-speed induced draft blower
- Self-diagnostic control board with constant memory fault code history output to a LED
- 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 NO_x emission limit in SCAQMD Rule 1111 and SJVUAPCD Rule 4905.
- AHRI Certified; ETL Listed

Cabinet Features

- Designed for multi-position installation — GRVS96-U: upflow, horizontal left or right
- Certified for direct vent (2-pipe) or non-direct vent (1-pipe)
- Easy-to-install top venting with optional side venting — GRVS96-U: upflow models only
- Convenient left or right connection for gas and electrical service
- Cabinet air leakage (Q_{Leak}) \leq 1.4%
- Heavy-gauge steel cabinet with durable finish
- Fully insulated heat exchanger and blower section
- Airtight solid bottom or side return with easy-cut tabs for effortless removal in bottom air-inlet applications

LIFETIME
HEAT EXCHANGER
LIMITED WARRANTY*

10
YEAR
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

G	R	V	S	96	060	3	B	N	A	A
1	2	3	4	5,6	7,8,9	10	11	12	13	14
MINOR REVISION										
BRAND										
G - Goodman										
CONFIGURATION										
R - Upflow/Horizontal R32										
D - Downflow/Horizontal R32										
MOTOR										
9 - Nine Speed ECM										
V - variable Speed ECM										
GAS VALVE										
T - 2 Stage										
S - 1 STAGE										
M - Modulating Gas Valve										
AFUE										
80 - 80% AFUE										
92 - 92% AFUE										
96 - 96% AFUE***										
97 - 97% AFUE										
NOx										
N = > 40 NG/J NOx										
X = < 40 NG/J NOx										
U = < 14NG/J NOx										
CABINET WIDTH										
A - 14"										
C - 21"										
B - 17½"										
D - 24½"										
MAXIMUM CFM										
3 - 1200 CFM										
4 - 1600 CFM										
5 - 2000 CFM										
MBTU/H										
030 - 30,000 BTU/h										
80 - 80,000 BTU/h										
040 - 40,000 BTU/h										
100 - 100,000 BTU/h										
060 - 60,000 BTU/h										
120 - 120,000 BTU/h										

***Some models are rated up to 97% AFUE

	GRVS96 0603BUA*	GRVS96 0805CUA*
HEATING DATA		
Input (BTU/h) ¹	60,000	80,000
Output (BTU/h) ¹	57,600	76,880
AFUE ²	96	96
Temperature Rise Range (°F)	30 - 60	30 - 60
Vent Diameter ³	2" - 3"	2" - 3"
No. of Burners	1 Burner, 3 Tubes	1 Burner, 4 Tubes
CIRCULATOR BLOWER		
Available AC @ 0.5" ESP	1.5 - 3	2 - 5
Size (D x W)	11" x 8"	11" x 10"
Horsepower @ 1075 RPM	1/2	1
Speed	VS ECM	VS ECM
Filter Size (in²)	(1) 16 x 25 (side or bottom)	(2) 16 x 25 (sides) OR (1) 20 x 25 (bottom) & (1) 16 x 25 (side)
ELECTRICAL DATA		
Min. Circuit Ampacity ⁴	8.1	15.4
Max. Overcurrent Device (amps) ⁵	15	25
SHIPPING WEIGHT (LBS)	122	147

¹ For use with natural gas only. For altitudes + 4,500 ft above sea level, see installation manual

² DOE AFUE based upon Isolated Combustion System (ICS)

³ Installer must supply one or two PVC pipes: one for combustion air (optional) and one for the flue outlet (required). Vent pipe must be either 2" or 3" in diameter, depending upon furnace input, number of elbows, length of run and installation (1 or 2 pipes). The optional Combustion Air Pipe is dependent on installation/code requirements and must be 2" or 3" diameter PVC.

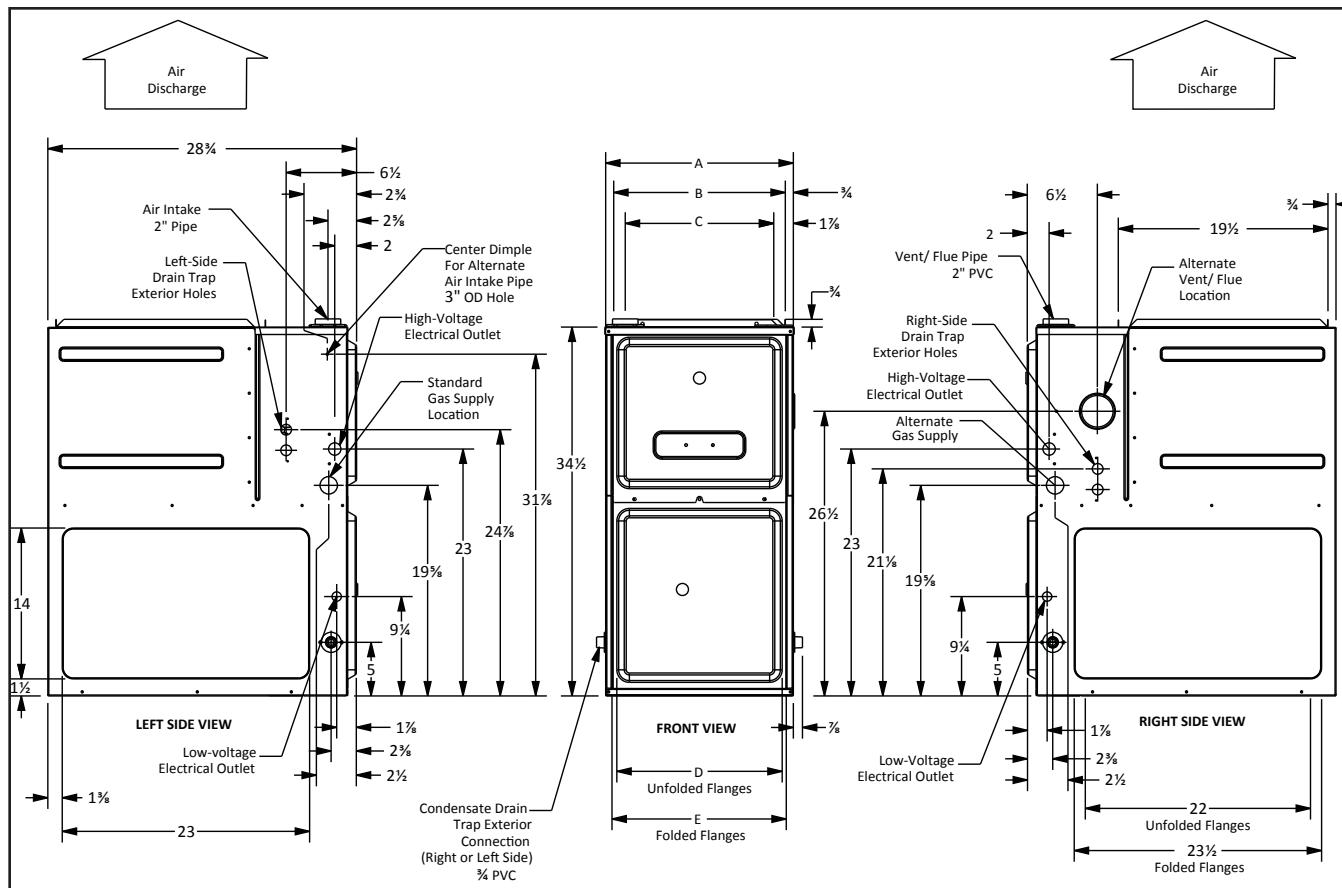
⁴ Minimum Circuit Ampacity = (1.25 x Circulator Blower Amps) + ID Blower amps. Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.

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 120 VAC, 60 Hz, single-phase electrical supply.
- Gas Service Connection ½" FNPT
- Important: Size fuses and wires properly and make electrical connections in accordance with the National Electrical Code and/or all existing local codes.
- For bottom return: Failure to unfold flanges may reduce airflow by up to 18%. This could result in performance and noise issues.
- For servicing or cleaning, a 24" front clearance is required. 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.

GRVS96-U DIMENSIONS



MODEL	W	D	H
GRVS960603BU	17 1/2	28 7/8	34 1/2
GRVS960805BU	21	28 7/8	34 1/2

AIR DISCHARGE		AIR RETURN		
A	B	C	D	E
17 1/2	16	13 7/8	12 1/8	13 5/8
21	19 1/2	17 7/8	16	17 1/2

MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS

POSITION	SIDES	REAR	FRONT	BOTTOM	FLUE	TOP
Upflow	0"	0"	3"	C	0"	1"
Horizontal	6"	0"	3"	C	0"	6"

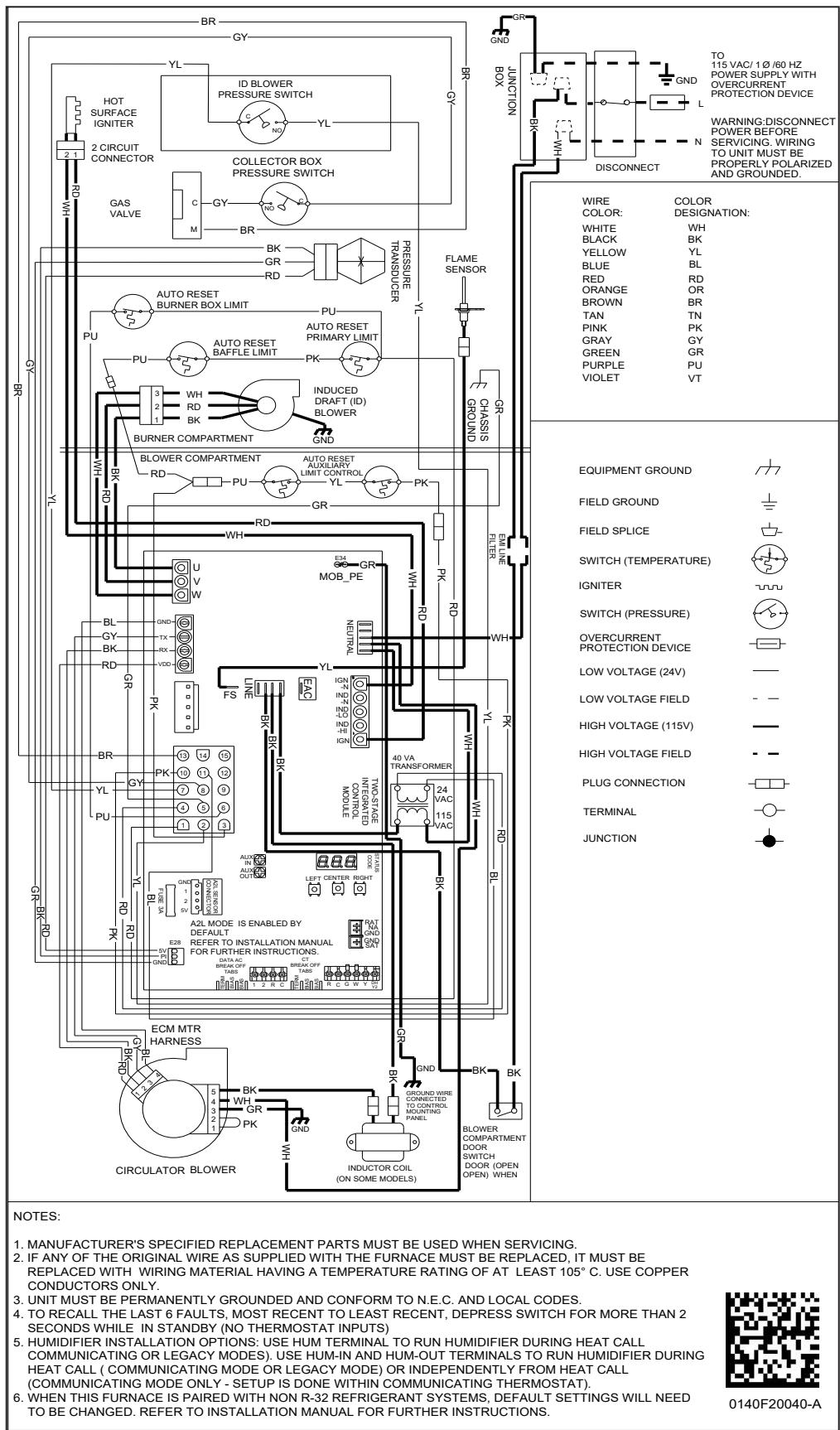
C = If placed on combustible floor, the floor MUST be wood ONLY.

MODEL / TEMP RISE RANGE (MID RISE)	GRVS960603BU 30-60 (45)		GRVS960805CU 30-60 (45)	
	CFM	RISE	CFM	RISE
RECOMMENDED CFM & EXPECTED TEMPERATURE RISE	1100	45	1650	45
MINIMUM RECOMMENDED HEATING CFM & EXPECTED TEMPERATURE RISE	990	55	1480	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.

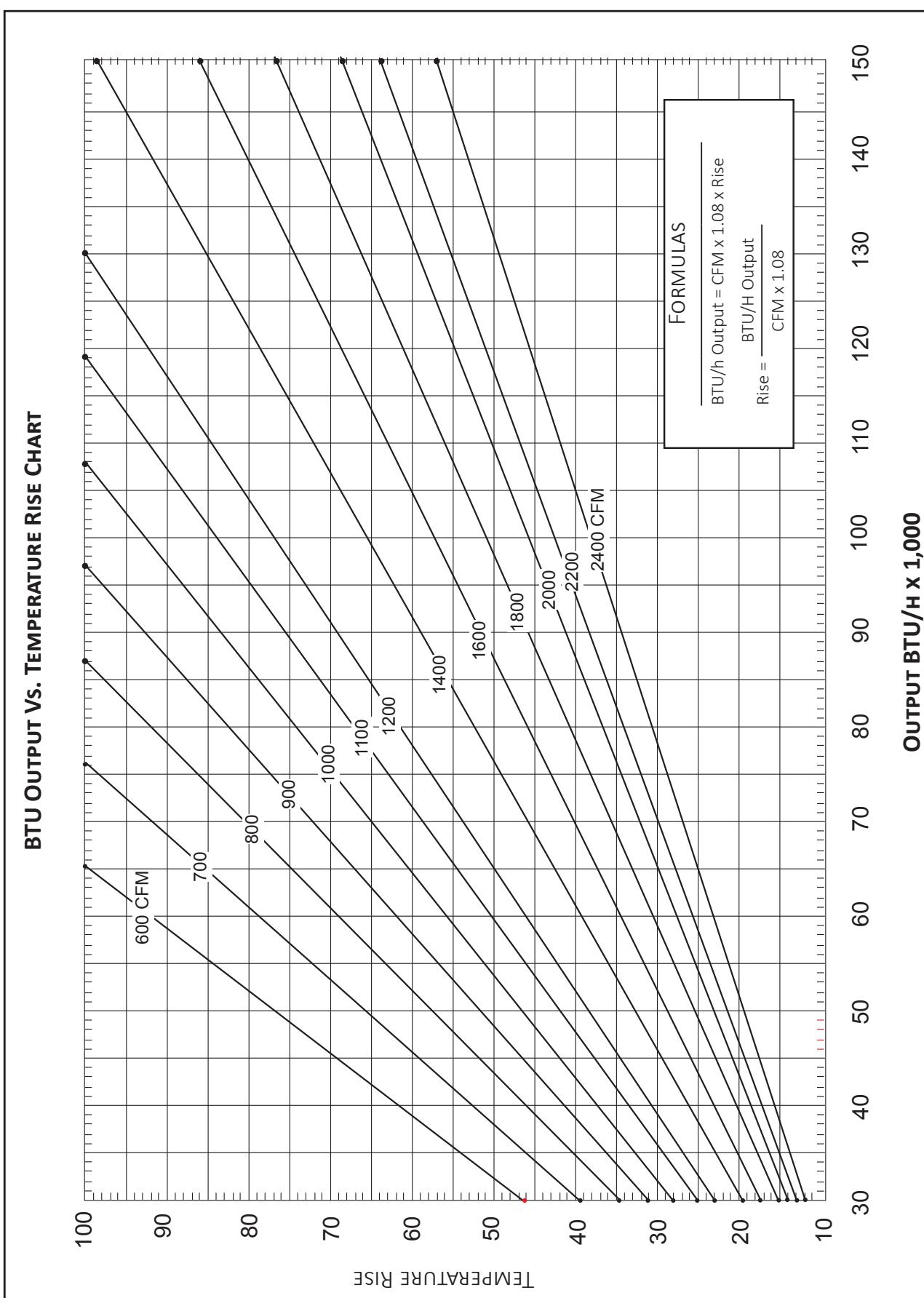
WIRING DIAGRAM



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



0140F20040-A



ACCESSORIES

MODEL	DESCRIPTION	GRVS96 0603BU	GRVS96 0805CU
72950	Concentric Vent Kit (2")	✓	✓
72951	Concentric Vent Kit (3")	✓	✓
RF000142	Drain Kit -Horizontal Left Vertical Flue	✓	✓
EFRO2	External Filter Rack with 16"x25" Permanent Filter	✓	—
0170K00000S	Flush Mount Vent Kit - 3" or 2"	✓	✓
0170K00001S	Flush Mount Vent Kit - 2"	✓	✓
0270F20723	Horizontal Drain Tubing Kit	✓	✓

MINIMUM FILTER SIZES

MODEL	GRVS960603BU	GRVS960805CU
Filter Size (in ²)	(1) 16 x 25 (side or bottom)	(2) 16 x 25 (sides) OR (1) 20 x 25 (bottom) & (1) 16 x 25 (side) ¹

Note: Other size filters of equal or greater dimensions may be used. Filters may also be centrally located.

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