



Air Conditioning & Heating

GRVM97 / GDVM97

HEATING INPUT: 60,000–120,000 BTU/H



R32

MODULATING, VARIABLE-SPEED ECM GAS FURNACE 97% AFUE

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Standard Features

- Integrated communicating ComfortBridge™ Technology
- Commissioning and diagnostics via on board Bluetooth with the CoolCloud phone and tablet application
- Heavy-duty aluminized-steel tubular heat exchanger
- Stainless-steel secondary heat exchanger
- Self-calibrating modulating gas valve auto-configure for each installation
- Durable Silicon Nitride igniter
- Quiet variable-speed induced draft blower
- Self-diagnostic control board with constant memory fault code history output to a dual 7-segment display
- Color-coded low-voltage terminals with provisions for electronic air cleaner
- Efficient and quiet variable-speed airflow system gently ramps up or down according to heating or cooling demand
- Multiple continuous fan speed options offer quiet air circulation
- Auto-Comfort and enhanced dehumidification modes available
- All models comply with California 40 ng/J Low NOx emissions standard
- Can not be installed in California's South Coast Air Quality Management District (SCAQMD) and San Joaquin Valley Air Pollution Control District (SJVAPCD).
- AHRI Certified; ETL Listed



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Cabinet Features

- Designed for multi-position installation — GRVM97: upflow, horizontal left or right GDVM97: downflow, 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
- Convenient left or right connection for gas and electrical service
- Cabinet air leakage (Q_{Leak}) $\leq 2\%$
- 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
UNIT
REPLACEMENT
LIMITED
WARRANTY*

10
YEAR
PARTS
LIMITED
WARRANTY*



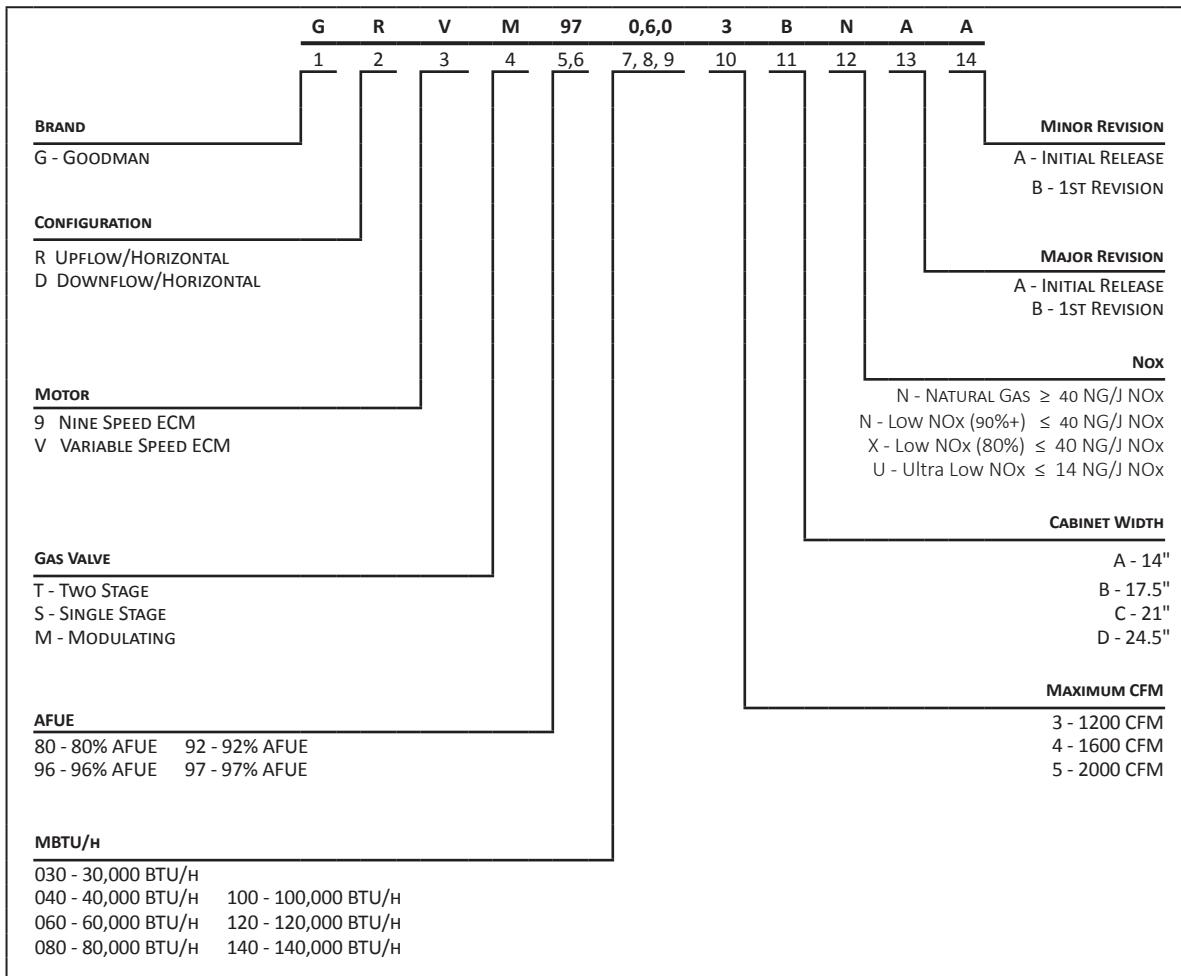
COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
=ISO 9001=

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



* Complete warranty details available from your local dealer or at www.goodmanmfg.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

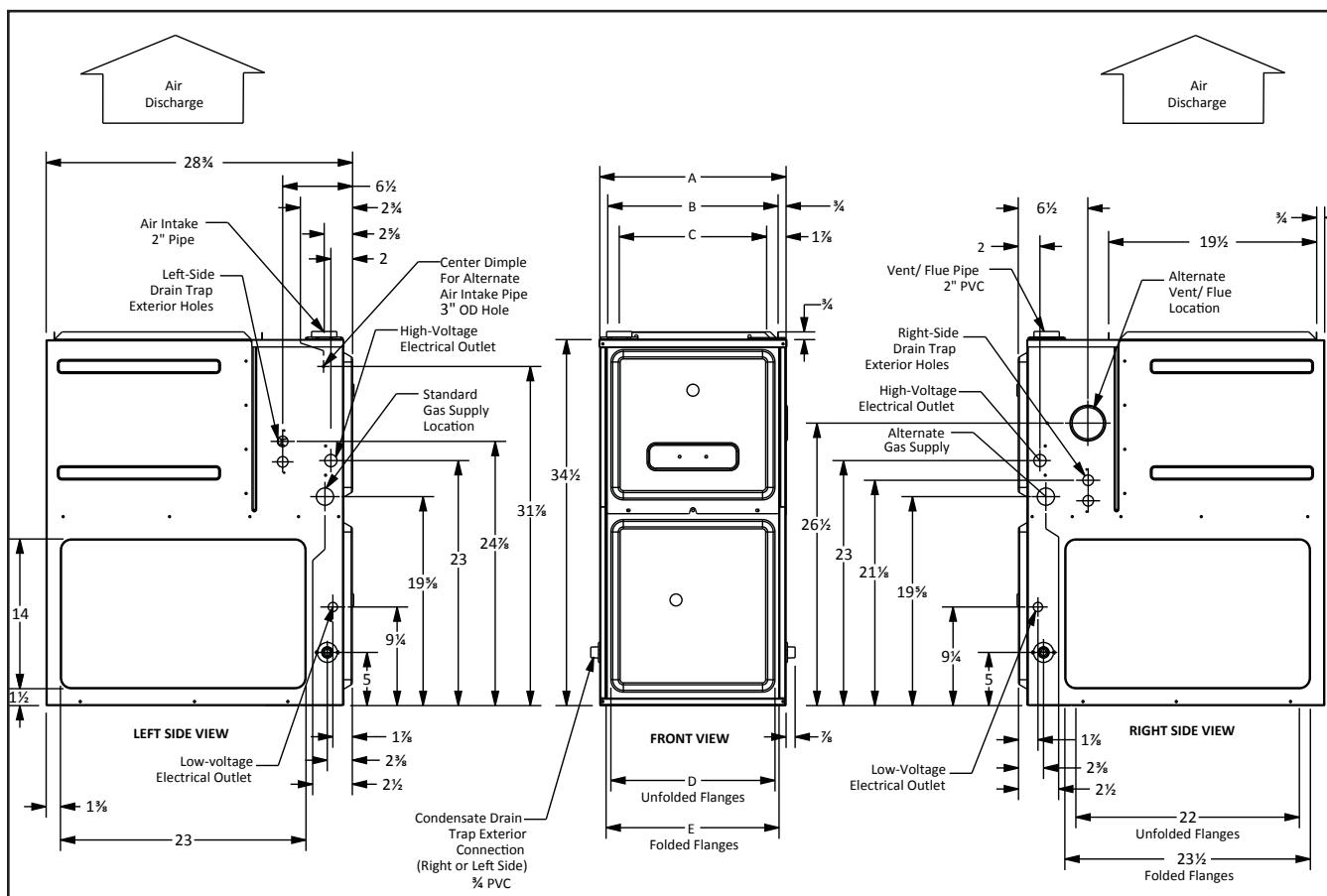


	GRVM97 0603BN	GRVM97 0803BN	GRVM97 0804CN	GRVM97 1005CN	GRVM97 1205DN	GDVM97 0603BN	GDVM97 0803BN	GDVM97 0804CN	GDVM97 1005CN
HEATING DATA									
High Fire Input ¹	60,000	80,000	80,000	100,000	120,000	60,000	80,000	80,000	100,000
High Fire Output ¹	58,200	77,600	77,600	97,000	116,400	58,200	77,600	77,600	97,000
Low-Fire Input ¹	30,000	40,000	40,000	50,000	60,000	30,000	40,000	40,000	50,000
Low-Fire Output ¹	29,100	38,800	38,800	48,500	58,200	29,100	38,800	38,800	48,500
AFUE ²	97	97	97	97	97	97	97	97	97
Temperature Rise Range (°F) High/Low Fire	35-65 / 35-65	30-60 / 20-50	25-55 / 25-55	35-65 / 25-55	35-65 / 30-60	35-65 / 30-60	35-65 / 35-65	35-65 / 35-65	35-65 / 30-60
Vent Diameter ³	2" - 3"	2" - 3"	2" - 3"	2" - 3"	2" - 3"	2" - 3"	2" - 3"	2" - 3"	2" - 3"
No. of Burners	3	4	4	5	6	3	4	4	5
CIRCULATOR BLOWER									
Available AC @ 0.5" ESP	1.5 - 3	1.5 - 3	1.5 - 4	2 - 5	2 - 5	1.5 - 3	1.5 - 3	1.5 - 4	2 - 5
Size (D x W)	11" x 8"	11" x 8"	11" x 10"	11" x 10"	11" x 11"	11" x 8"	11" x 8"	11" x 10"	11" x 10"
Horsepower @ 1075 RPM	1/2	1/2	3/4	1	1	1/2	1/2	3/4	1
Speed	VS ECM	VS ECM	VS ECM	VS ECM	VS ECM	VS ECM	VS ECM	VS ECM	VS ECM
FILTER SIZE (IN²) (QTY)	(1) 16 x 25 (side or bottom)	(1) 16 x 25 (side or bottom)	(1) 16 x 25 (side or bottom)	(1) 20 x 25 (bottom) or (2) 16 x 25 (side)	(1) 20 x 25 (bottom) or (2) 16 x 25 (side)	"2) 10 x 20 or (1) 16 x 25 (top return)	(2) 10 x 20 or (1) 16 x 25 (top return)	(2) 10 x 20 or (1) 16 x 25 (top return)	(1) 14 x 20 (bottom) or (1) 20 x 25 (top return)
ELECTRICAL DATA									
Min. Circuit Ampacity ⁴	8.1	8.1	11.4	14.4	14.4	8.1	8.1	11.4	14.4
Max. Overcurrent Device (amps) ⁵	15	15	15	25	25	15	15	15	25
SHIPPING WEIGHT (LBS)	118	121	142	144	157	117	122	144	146

¹ Natural Gas BTU/h² 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 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.
- 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.

GRVM97 DIMENSIONS



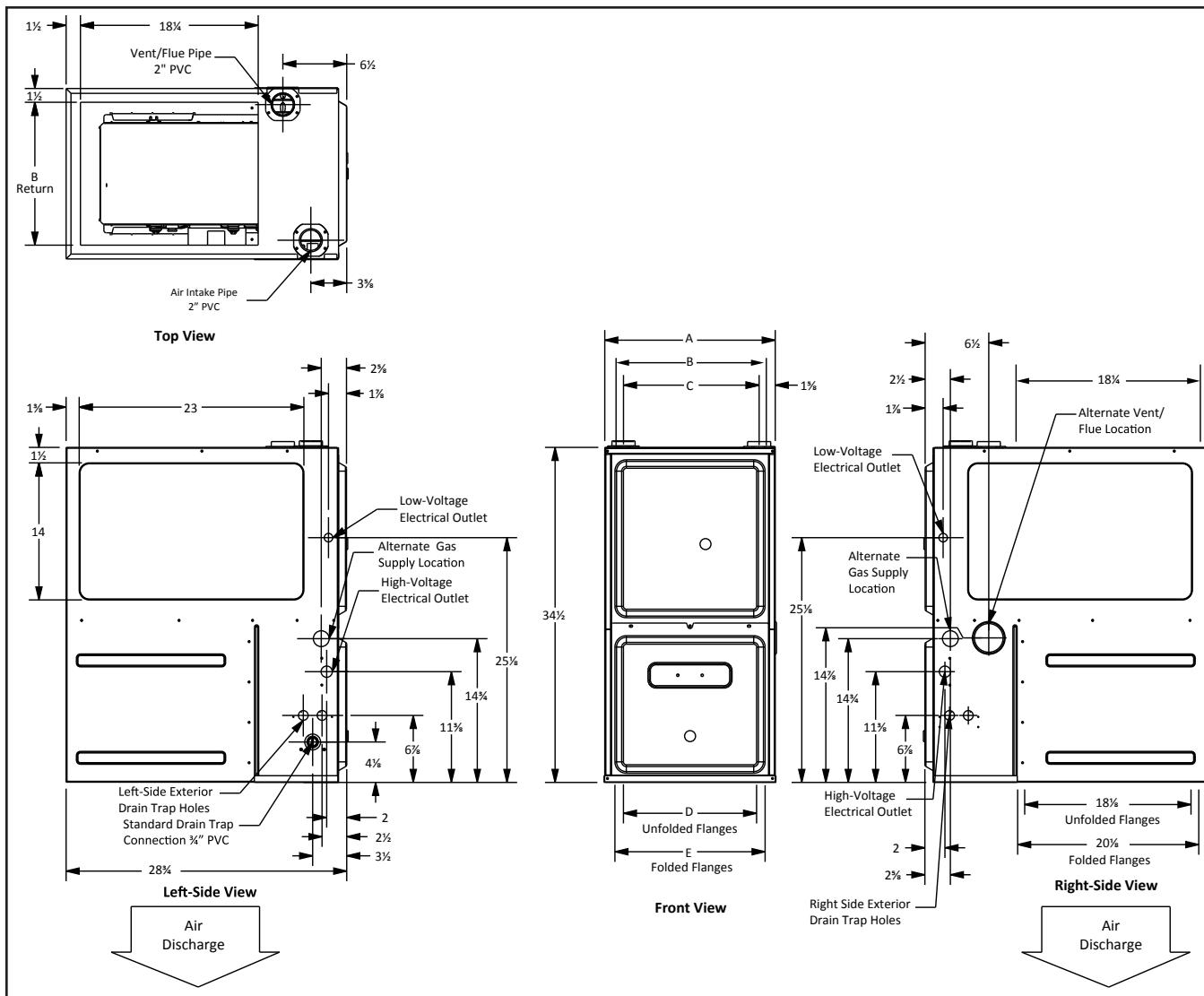
MODEL	W	D	H
GRVM970603BN	17 1/2"	28 7/8"	34 1/2"
GRVM970803BN	17 1/2"	28 7/8"	34 1/2"
GRVM970804CN	21"	28 7/8"	34 1/2"
GRVM971005CN	21"	28 7/8"	34 1/2"
GRVM971205DN	24 1/2"	28 7/8"	34 1/2"

A	AIR DISCHARGE		AIR RETURN	
	B	C	D	E
17 1/2"	16"	13 7/8"	12 1/8"	13 5/8"
17 1/2"	16"	13 7/8"	12 1/8"	13 5/8"
21"	19 1/2"	17 7/8"	16"	17 1/2"
21"	19 1/2"	17 7/8"	16"	17 1/2"
24 1/2"	23"	20 7/8"	19 3/8"	20 7/8"

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	W	D	H
GDVM970603BN	17 1/2"	28 7/8"	34 1/2"
GDVM970803BN	17 1/2"	28 7/8"	34 1/2"
GDVM970804CN	21"	28 7/8"	34 1/2"
GDVM971005CN	21"	28 7/8"	34 1/2"

AIR RETURN		AIR DISCHARGE		
A	B	C	D	E
17 1/2"	14 5/8"	14"	14 1/2"	16"
17 1/2"	14 5/8"	14"	14 1/2"	16"
21"	18 1/8"	17 1/2"	18"	19 1/2"
21"	18 1/8"	17 1/2"	18"	19 1/2"

MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS

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

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

NC = For installation on non-combustible floors only. A combustible floor sub-base must be used for installations on combustible flooring.

GRVM97 AIRFLOW DATA

MODEL/TEMP RISE RANGE (MID RISE)	GRVM970603BNA* 35-65 (50)	GRVM970803BNA* 30-60 (45)	GRVM970804CNA* 25-55 (40)	GRVM971005CNA* 35-65 (50)	GRVM971205DNA* 35-65 (50)					
	CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE
Recommended cfm for 100% firing rate & expected temperature rise	1080	50	1450	50	1750	41	1800	50	2150	50
Lowest recommended cfm for 100% firing rate & expected temperature rise	830	65	1200	60	1300	55	1380	65	1660	65

NOTE: Low Heat CFM = High Heat CFM X .7. Low Heat Temperature Rise Is Expected to Equal High Heat Temperature Rise ± 5%

GRVM970603BNA*
COOLING SPEED
(@ 0.1" - 0.8" w.c. ESP)

TONS	HIGH-STAGE	LOW-STAGE CFM
1.5	600	420
2	800	560
2.5	1,000	700
3	1,200	840
MAX	1,400	

GRVM970803BNA*
COOLING SPEED
(@ 0.1" - 0.8" w.c. ESP)

TONS	HIGH-STAGE	LOW-STAGE CFM
1.5	600	420
2	800	560
2.5	1,000	700
3	1,200	840
MAX	1,650	

GRVM970804CNA*
COOLING SPEED
(@ 0.1" - 0.8" w.c. ESP)

TONS	HIGH-STAGE	LOW-STAGE CFM
2	800	560
2.5	1,000	700
3	1,200	840
4	1,600	1,120
MAX	1,760	

GRVM971005CNA*
COOLING SPEED
(@ 0.1" - 0.8" w.c. ESP)

TONS	HIGH-STAGE	LOW-STAGE CFM
2	800	560
3	1,200	840
4	1,600	1,120
5	2,000	1,400
MAX	2,200	

GRVM971205DNA*
COOLING SPEED
(@ 0.1" - 0.8" w.c. ESP)

TONS	HIGH-STAGE	LOW-STAGE CFM
2	800	560
3	1,200	840
4	1,600	1,120
5	2,000	1,400
MAX	2,200	

All furnaces ship as high speed for cooling. Installer must adjust blower speed as needed.

For most jobs, about 400 CFM per ton when cooling is desirable.

Do not operate above .5" w.c. ESP in heating mode. Operating CFM between .5" and .8" w.c. is tabulated for cooling purposes only.

MODEL/TEMP RISE RANGE (MID RISE)	GDVM970603BNA* 35-65 (50)	GDVM970803BNA* 35-65 (50)	GDVM970804CNA* 35-65 (50)	GDVM971005CNA* 35-65 (50)
	CFM	RISE	CFM	RISE
Recommended cfm for 100% firing rate & expected temperature rise	1100	50	1400	51
Lowest recommended cfm for 100% firing rate & expected temperature rise	830	65	1100	65

NOTE: Low Heat CFM = High Heat CFM X .7. Low Heat Temperature Rise Is Expected to Equal High Heat Temperature Rise ± 5%

GDVM970603BNA*
COOLING SPEED
(@ 0.1" - 0.8" w.c. ESP)

TONS	HIGH-STAGE	LOW-STAGE CFM
1.5	600	420
2	800	560
2.5	1,000	700
3	1,200	840
MAX	1,400	

GDVM970803BNA*
COOLING SPEED
(@ 0.1" - 0.8" w.c. ESP)

TONS	HIGH-STAGE	LOW-STAGE CFM
1.5	600	420
2	800	560
2.5	1,000	700
3	1,200	840
MAX	1,650	

GDVM970804CNA*
COOLING SPEED
(@ 0.1" - 0.8" w.c. ESP)

TONS	HIGH-STAGE	LOW-STAGE CFM
2	800	560
2.5	1,000	700
3	1,200	840
4	1,600	1,120
MAX	1,760	

GDVM971005CNA*
COOLING SPEED
(@ 0.1" - 0.8" w.c. ESP)

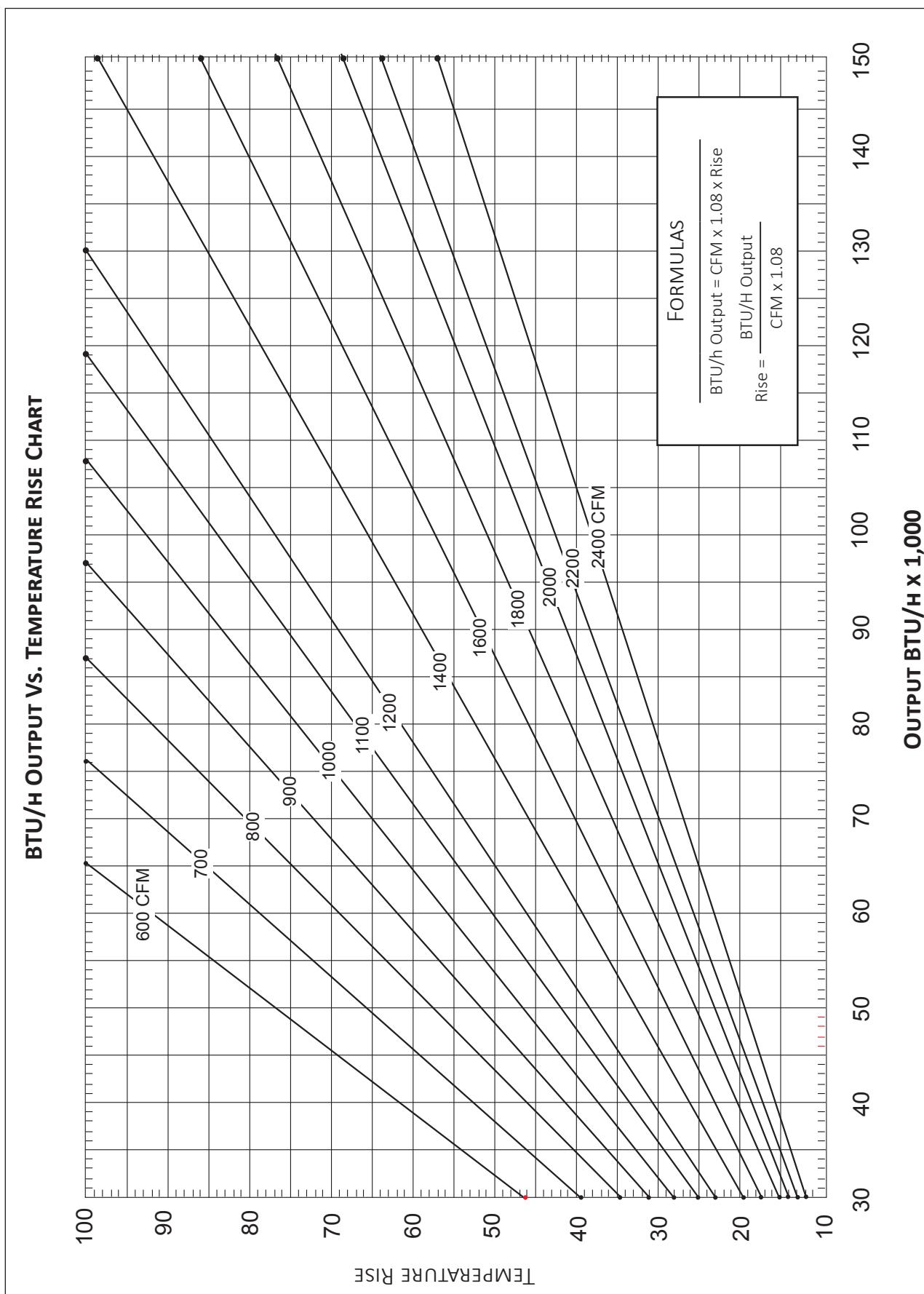
TONS	HIGH-STAGE	LOW-STAGE CFM
2	800	560
3	1,200	840
4	1,600	1,120
5	2,000	1,400
MAX	2,200	

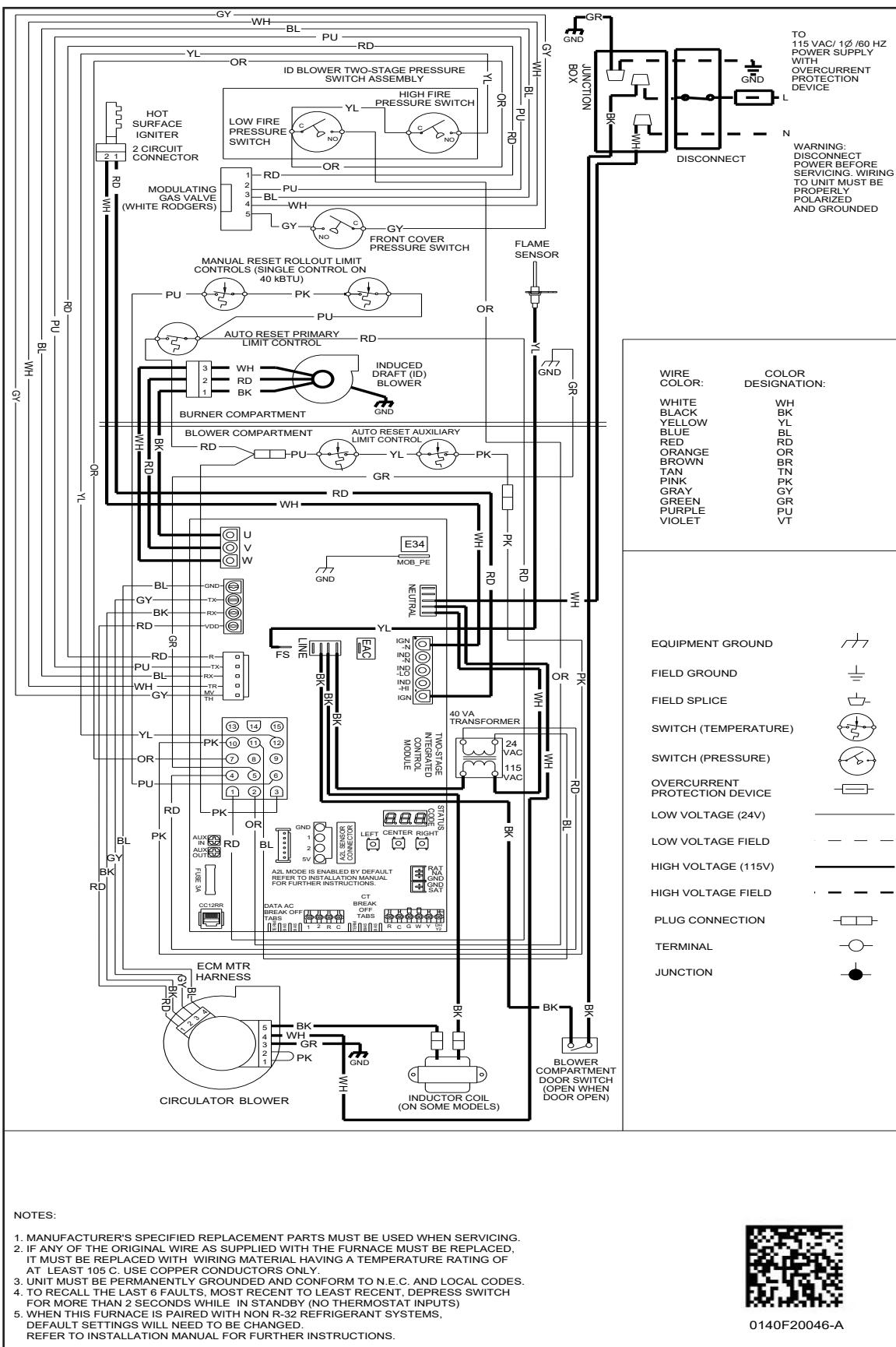
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TEMPERATURE RISE RANGE CHART





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

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.



0140F20046-A

ACCESSORIES

MODEL	DESCRIPTION	GRVM97 0603BN	GRVM97 0803BN	GRVM97 0804CN	GRVM97 1005CN	GRVM97 1205DN
72950	Concentric Vent Kit (2")	✓	✓	✓	✓	—
72951	Concentric Vent Kit (3")	✓	✓	✓	✓	✓
RF000142	Drain Kit Horizontal Left Vertical Flue	✓	✓	✓	✓	✓
EFR02	External Filter Rack with 16"x25" Permanent Filter	✓	✓	✓	✓	✓
0170K00000S	Flush Mount Vent Kit - 3" or 2"	✓	✓	✓	✓	✓
0170K00001S	Flush Mount Vent Kit - 2"	✓	✓	✓	✓	—
AFE18-60A	Fossil Fuel (Dual Fuel) Kit	✓	✓	✓	✓	✓
HAMFK-01	High-Altitude Kit	✓	✓	✓	✓	✓
0270F05404	Horizontal Drain Tubing Kit	✓	✓	✓	✓	✓
LPM-35	LP Conversion Kits	✓	✓	✓	✓	✓

NOTES

- ✓ Indicates available for this model
 • For installation in Canada, gas furnaces are certified only to 4,500'.

MODEL	DESCRIPTION	GDVM97 0603BN	GDVM97 0803BN	GDVM97 0804CN	GDVM97 1005CN
72950	Concentric Vent Kit (2")	✓	✓	✓	✓
72951	Concentric Vent Kit (3")	✓	✓	✓	✓
CFSB17	Downflow Sub-Base 17.5"	✓	✓	—	—
CFSB21	Downflow Sub-Base 21"	—	—	✓	✓
0170K00000S	Flush Mount Vent Kit - 3" or 2"	✓	✓	✓	✓
0170K00001S	Flush Mount Vent Kit - 2"	✓	✓	✓	✓
AFE18-60A	Fossil Fuel (Dual Fuel) Kit	✓	✓	✓	✓
HAMFK-01	High-Altitude Kit	✓	✓	✓	✓
0270F05405	Horizontal Drain Tubing Kit	✓	✓	✓	✓
LPM-35	LP Conversion Kits	✓	✓	✓	✓

NOTES

- ✓ Indicates available for this model
 • For installation in Canada, gas furnaces are certified only to 4,500'.

NOTES

Our continuing commitment to quality products may mean a change in specifications without notice.
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