

80% AFUE

HEATING INPUT: 60,000–100,000 BTU/H

Standard Features

- Patented dual-diameter tubular heat exchanger
- Two-stage gas valve that allows installer to turn on two-stage operation with the flip of a dipswitch
- Energy-efficient circulator motor (EEM)
- 115V Silicon Nitride igniter designed for long igniter life
- Furnace control board with self-diagnostics, color-coded low-voltage terminals, and provisions for electronic air cleaner and 24-volt humidifier
- Control board stores the last five diagnostic codes in memory; simple push-button activation outputs the fault history to a flashing red LED
- Low constant fan allows homeowner to activate the low heat speed to efficiently circulate air throughout the home.
- Self-adjusting feature automatically adjusts furnace to high or low stage based on outside temperature without an outdoor temperature sensor
- Certain models available with low NOx emissions

Cabinet Features

- Fully insulated, heavy-gauge steel cabinet with durable baked-enamel finish
- Foil-faced insulation lines the heat exchanger
- Top gas connection on most models
- Designed for multi-position installation: upflow, horizontal left or right
- Removable bottom for side- or bottom-return applications
- Convenient left or right connection for gas / electric service
- Coil and furnace fit flush for most installations



TwinComfort™
PREMIUM HEATING PERFORMANCE

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* 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 is not required in California or Québec.

NOMENCLATURE

	G	M	E	8	060	3	B	*	*
	1	2	3	4	5,6,7	8	9	10	11
Brand									Revisions
G Goodman® Brand or Distinctions™									A Initial Release
									B 1st Revision
									C 2nd Revision
Airflow Direction									NOx
C Downflow/Horizontal									N Natural Gas
D Dedicated Downflow									X Low NOx
H High Airflow									
K Dedicated Upflow									
M Upflow/Horizontal									Cabinet Width
									A 14"
									B 17½"
									C 21"
									D 24½"
Description									Maximum CFM @ 0.5" ESP
V Two-Stage/Variable-speed									3 1,200
H Two-Stage/Multi-speed									4 1,600
S Single-Stage/Multi-speed									5 2,000
AFUE									
95 95%									
9 90%+									
8 80%									
									MBTU/h
									040: 40,000
									100: 100,000
									060: 60,000
									120: 120,000
									080: 80,000



SPECIFICATIONS

	GME8 0603B*B	GME8 0805C*B	GME8 1005C*B
PERFORMANCE DATA			
Input ¹	60,000	80,000	100,000
Output ¹	48,000	64,000	80,000
LP Output ¹	48,000	64,000	80,000
AFUE ²	80	80	80
Tons AC @ 0.5" ESP	3	5	5
Temperature Rise Range (°F)	20 - 50	35 - 65	35 - 65
CIRCULATOR BLOWER			
Size (D x W)	10 X 8	10 X 10	10 X 10
HP	1/2	1	1
Speed	5	5	5
Vent Diameter ³	4	4	4
No. of Burners	3	4	5
Disposable Filter (in ²)	290	480	480
ELECTRICAL DATA			
Min. Circuit Ampacity ⁴	8.2	14.8	14.8
Max. Overcurrent Protection ⁵	15	15	15
SHIP WEIGHT (LBS)	130	163	167

¹ Natural Gas BTU/h: for altitudes above 2,000', reduce input rating 4% for each 1,000' above sea level. Low-fire rate is 75% of high-fire rate.

² DOE AFUE based upon Isolated Combustion System (ICS).

³ Vent diameter 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).

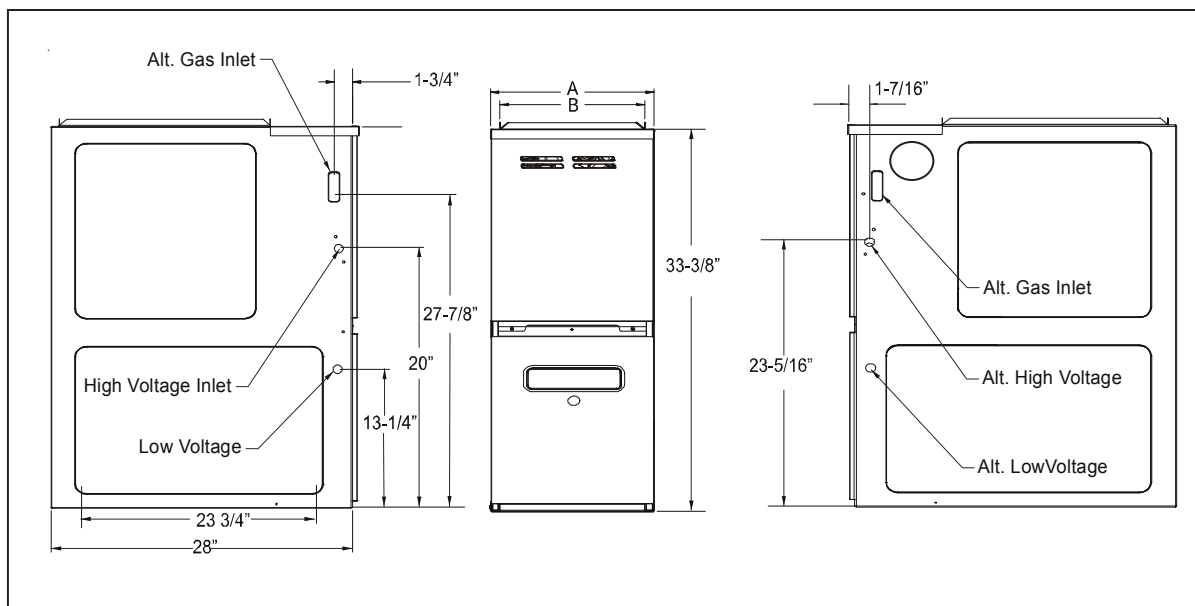
⁴ Minimum Circuit Ampacity = (1.25 x Circulator Blower Amps) + ID Blower amps. Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.

⁵ 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: It is required to size overcurrent protection device and wires properly and make electrical connections in accordance with the National Electrical Code and/or all existing local codes.

DIMENSIONS



MODEL	A	B
GME80603B**	17½"	16"
GME80805C**	21"	19½"
GME81005C**	21"	19½"

MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS

SIDES	REAR	FRONT	BOTTOM	VENT		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

AIRFLOW DATA

(CFM & TEMPERATURE RISE VS. EXTERNAL STATIC PRESSURE)

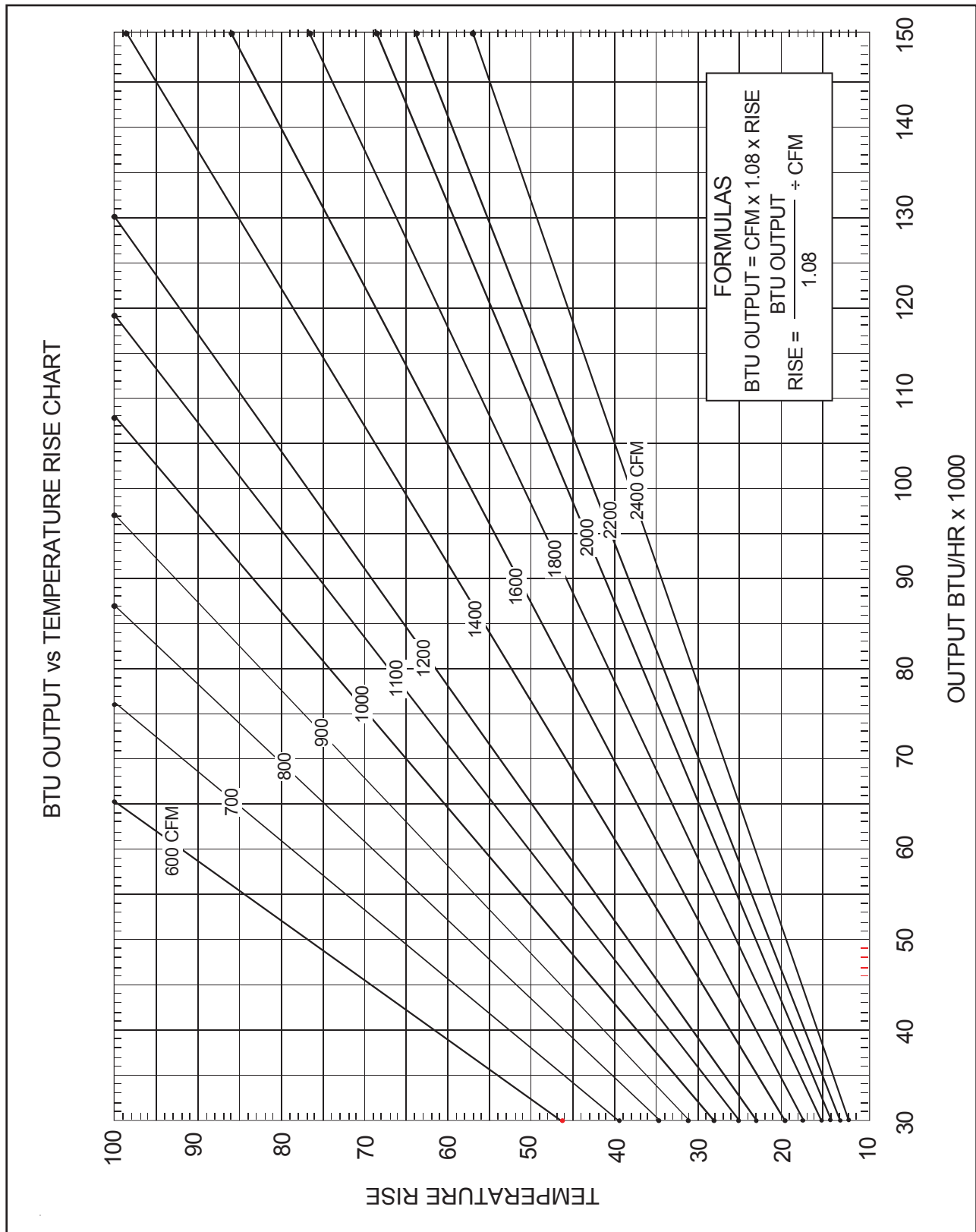
MODEL	MOTOR SPEED	TONS AC ¹	EXTERNAL STATIC PRESSURE, (INCHES WATER COLUMN)												
			0.1		0.2		0.3		0.4		0.5		0.6	0.7	0.8
			CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE	CFM	CFM	CFM
GME8 0603B*B	T1	1½	875	---	793	---	736	---	674	---	592	---	556	509	460
	T2	2	1,032	43	965	46	914	49	861	---	810	---	756	712	659
	T3	2½	1,217	37	1,153	39	1,098	40	1,051	42	1,009	44	964	918	877
	T4	3	1,365	33	1,313	34	1,268	35	1,221	36	1,172	38	1,129	1,086	1,054
	T5	3½	1,549	29	1,505	30	1,460	30	1,420	31	1,378	32	1,350	1,305	1,268
GME8 0805C*B	T1	2½	1,268	47	1,198	49	1,151	51	1,092	54	1,041	57	988	932	883
	T2	3	1,362	44	1,305	45	1,261	47	1,212	49	1,170	51	1,121	1,074	1,021
	T3	3½	1,576	38	1,519	39	1,473	40	1,426	42	1,398	42	1,341	1,290	1,252
	T4	4	1,755	---	1,711	35	1,657	36	1,627	36	1,579	38	1,548	1,502	1,463
	T5	5	2,183	---	2,128	---	2,094	---	2,060	---	2,014	---	1,992	1,944	1,847
GME8 1005C*B	T1	3	1,466	51	1,415	52	1,357	55	1,306	57	1,248	59	1,202	1,144	1,088
	T2	3½	1,642	45	1,596	46	1,552	48	1,499	49	1,449	51	1,388	1,352	1,306
	T3	4	1,750	42	1,750	42	1,707	43	1,667	44	1,610	46	1,574	1,531	1,486
	T4	4	1,870	40	1,805	41	1,782	42	1,737	43	1,701	44	1,656	1,606	1,571
	T5	5	2,297	---	2,297	---	2,224	---	2,106	35	2,014	37	1,896	1,813	1,669

¹ @ 0.5" ESP

NOTES

- CFM in chart is without filter(s). Filters do not ship with this furnace, but must be provided by the installer. If the furnace requires two return filters, this chart assumes both filters are installed.
- All furnaces ship as high-speed cooling and medium-speed heating. Installer must adjust blower cooling and heating speed as needed.
- For most jobs, about 375 - 400 CFM per ton when cooling is desirable.
- INSTALLATION IS TO BE ADJUSTED TO OBTAIN TEMPERATURE RISE WITHIN THE RANGE SPECIFIED ON THE RATING PLATE.
- This chart is for information only. For satisfactory operation, external static pressure should not exceed value shown on the rating plate.
- The above chart is for U.S. furnaces installed at 0-2000 feet. At higher altitudes, a properly derated unit will have approximately the same temperature rise at a particular CFM, while ESP at the CFM will be lower.
- Factory Motor Speed Setting: T1 = 1st Stage Ht, T2 = 2nd Stage Ht, T5 = Cooling
- Temperature rise data is based on second-stage heat. First-stage heat is 75% of rise indicated above.

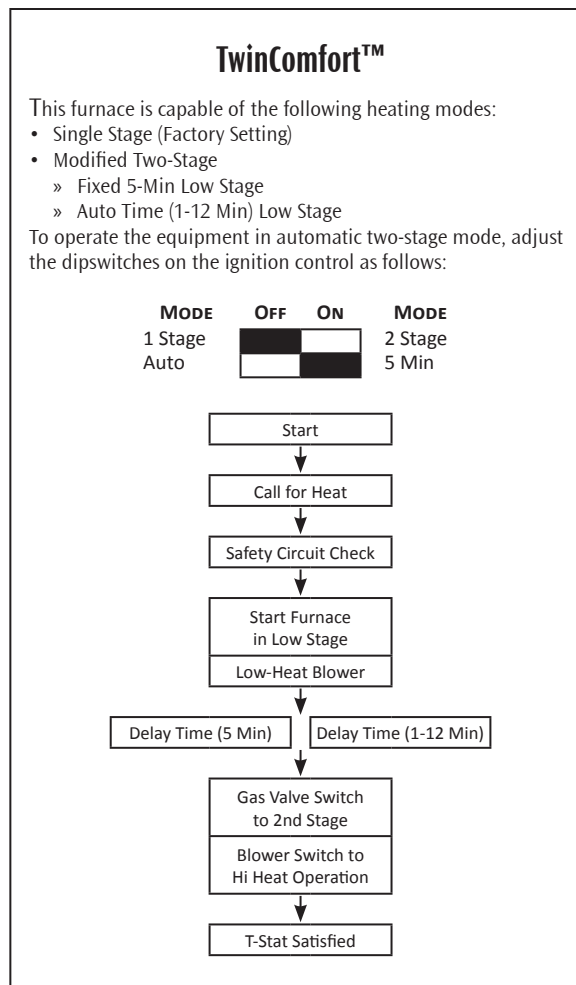
TEMPERATURE RISE CHART



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



TwinComfort™ CONFIGURATION & OPERATION



ACCESSORIES

MODEL	DESCRIPTION
LPM-06 ¹	LP Conversion Kit (Springs & Orifice)
HA02	High-Altitude Natural Gas Kit
AFE18-60A	Fossil Fuel Kit

¹ Honeywell or White-Rodgers valves