

Air Conditioning & Heating

HEATING INPUT: 60,000-100,000 BTU/H

Goodman



GME8

Multi-Position, Multi-Speed Gas Furnace 80% AFUE

Standard Features

- 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, colorcoded low-voltage terminals, and provisions for electronic air cleaner and 24-volt humidifiers
- 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 operation 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
- 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
- Top gas connection on most models
- Coil and furnace fit flush for most installations

Contents

Nomenclature	2
Product Specifications	3
Dimensions	4
Airflow Data	5
Wiring Diagram	7
Accessories	8







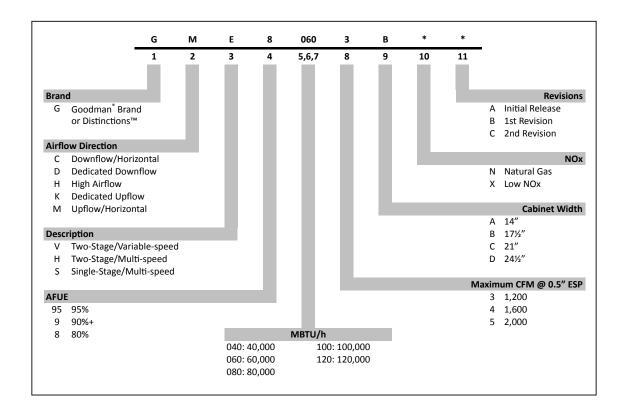








Nomenclature





2



SPECIFICATIONS

	GME8 0603B*B	GME8 0805C*B	GME8 0805D*A	GME8 1005C*B		
PERFORMANCE DATA						
Input ¹	60,000	80,000	80,000	100,000		
Output ¹	48,000	64,000	64,000	80,000		
LP Output ¹	48,000	64,000	64,000	80,000		
AFUE ²	80	80	80	80		
Tons AC @ 0.5" ESP	3	5	5	5		
Temperature Rise Range (°F)	20 - 50	35 - 65	30 - 60	35 - 65		
CIRCULATOR BLOWER						
Size (D x W)	10 X 8	10 X 10	10 X 10	10 X 10		
НР	1/2	1	1	1		
Speed	5	5	5	5		
Vent Diameter³	4	4	4	4		
No. of Burners	3	4	4	5		
Disposable Filter (in²)	290	480	480	480		
ELECTRICAL DATA						
Min. Circuit Ampacity ⁴	8.2	14.8	14.8	14.8		
Max. Overcurrent Protection⁵	15	15	15	15		
SHIP WEIGHT (LBS)	98	116	123	120		

Low-fire rate is 75% of high-fire rate.

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.

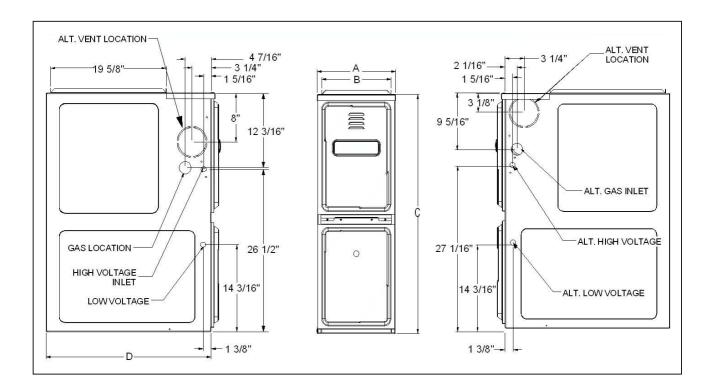
² DOE AFUE based upon Isolated Combustion System (ICS).

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).

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.

DIMENSIONS



Model	Α	В
GME80603B**	17½"	16"
GME80805C**	21"	19½"
GME80805D**	24½"	23"
GME81005C**	21"	19½"

MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS

SIDES	Bran	EDONIT	POTTONA	VE	NT	ТОР	
SIDES	REAR	FRONT	Воттом	SW	В	LOP	
1	0	3	С	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)

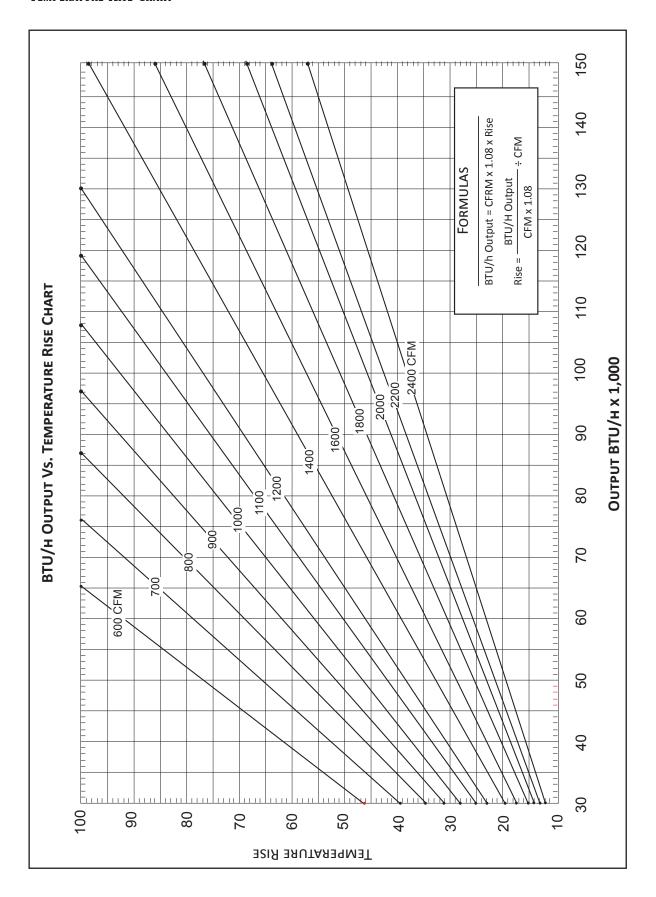
						EXTER	NAL STAT	IC PRES	SURE, (IN	ICHES W	ATER CO	LUMN)			
MODEL	MOTOR SPEED	Tons AC ¹	0.	.1	0.	.2	0.	3	0.	.4	0.	.5	0.6	0.7	0.8
			CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE	CFM	CFM	CFM
	T1	1½	875		793		736		674		592		556	509	460
	T2	2	1,032	43	965	46	914	49	861		810		756	712	659
GME8 0603B*B	Т3	2½	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
	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
GME8 0805C*B	Т3	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
	T1	3½	1,524	39	1,479	40	1,439	41	1,388	43	1,343	44	1,281	1,243	1,190
	T2	4	1,683	35	1,646	36	1,607	37	1,569	38	1,531	39	1,488	1,441	1,395
GME8 0805D*A	Т3	4	1,884	31	1,832	32	1,849	32	1,765	34	1,724	34	1,692	1,661	1,626
	T4	4	1,951	30	1,904	31	1,879	32	1,842	32	1,803	33	1,768	1,734	1,687
	T5	5	2,036	29	2,010	29	1,977	30	1,947	30	1,923	31	1,888	1,844	1,816
	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
GME8 1005C*B	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

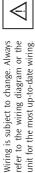
- CFM in chart is without filter(s). Filters do not ship with this furnace, but must be provided by the installer. If the furnace requires two return filters, this chart assumes both filters are installed.
- All furnaces ship as high-speed cooling and medium-speed heating. Installer must adjust blower 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.
- 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



6

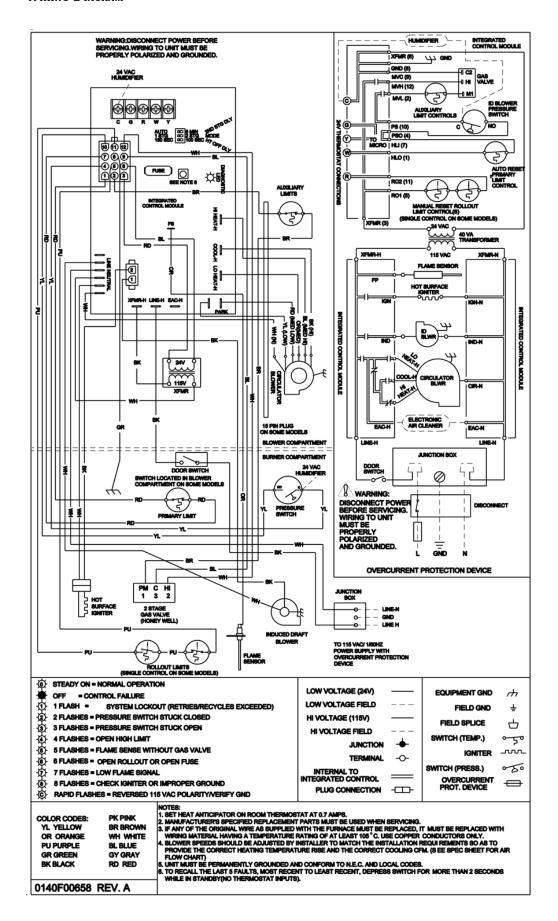
power death. Multiple I istalling this unit. Ny damage, personal i or installing servicing before power lure to do all Failt Disconnect High Voltage: [sources may



IRNING

≶

WIRING DIAGRAM



cause property to do so may present. pe l

SS-GME8

Accessories

Model	DESCRIPTION
LPM-06 ¹	LP Conversion Kit (Springs & Orifice)
HANG20	High-Altitude Natural Gas Kit (4500+ Ft.)
AFE18-60A	Fossil Fuel Kit

Honeywell or White-Rodgers valves