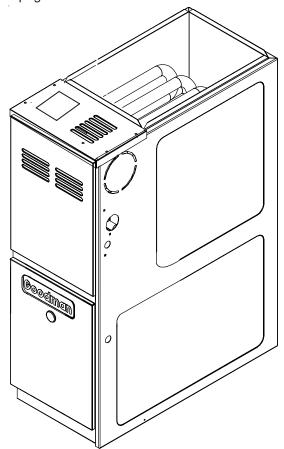


GME8 33-3/8" 80% Gas Furnace Upflow/Horizontal

- Refer to current Service Manual RS6610004 for installation, operation, and troubleshooting information.
- All safety information must be followed as provided in the Service Manual.
- Refer to the appropriate Parts Catalog for part number information.
- Model numbers listed on page 3.

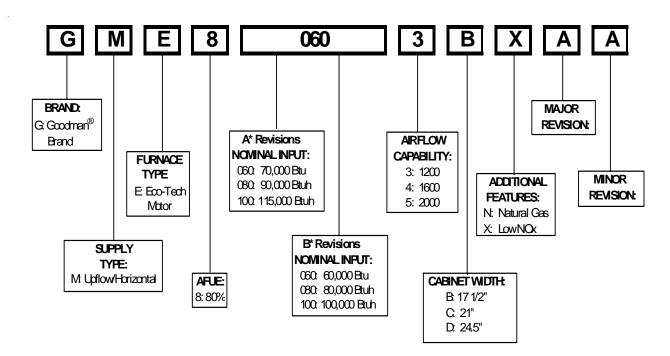




This manual is to be used by qualified, professionally trained HVAC technicians only. Goodman does not assume any responsibility for property damage or personal injury due to improper service procedures or services performed by an unqualified person.

PRODUCT IDENTIFICATION

The model and manufacturing number are used for positive identification of component parts used in manufacturing. Please use these numbers when requesting service or parts information.





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.



WARNING Goodman will not be responsible for any injury or property damage arising from improper service or service procedures. If you install or perform service on this unit, you assume responsibility for any personal injury or property damage which may result. Many jurisdictions require a license to install or service heating and air conditioning equipment.

WARNING

Installation and repair of this unit should be performed <u>ONLY</u> by individuals meeting the require-

ments of an "entry level technician", at a minimum, as specified by the Air-Conditioning, Heating, and Refrigeration Institute (AHRI). Attempting to install or repair this unit without such background may result in product damage, personal injury or death.

PRODUCT IDENTIFICATION

The model and manufacturing number are used for positive identification of component parts used in manufacturing. Please use these numbers when requesting service or parts information.

GME80603B*A* GME80603B*B* GME80805C*A* GME80805C*B* GME81005C*A* GME81005C*B*

GME80805D*A*

*All models are Natural Gas and low NOx models.



The United States Environmental Protection Agency ("EPA") has issued various regulations regarding the introduction and disposal of refrigerants introduced into this unit. Failure to follow these regulations may harm the environment and can lead to the imposition of substantial fines. These regulations may vary by jurisdiction. Should questions arise, contact your local EPA office.



Do not connect or use any device that is not design certified by Goodman for use with this unit. Serious

property damage, personal injury, reduced unit performance and/or hazardous conditions may result from the use of such non-approved devices.

do not store combustible materials or use gasoline or other flammable liquids or vapors in the vicinity of this appliance.

General Operation

GME8 furnaces are equipped with an electronic ignition device used to light the burners and an induced draft blower to exhaust combustion products.

An interlock switch prevents furnace operation if the blower door is not in place. Keep the blower access door in place except for inspection and maintenance.

This furnace is also equipped with a self-diagnosing electronic control module. In the event a furnace component is not operating properly, the control module LED will flash on and off in a factory-programmed sequence, depending on the problem encountered. This light can be viewed through the observation window in the blower access door. Refer to the *Troubleshooting Chart* for further explanation of the LED codes and *Abnormal Operation - Integrated Ignition Control* section in the Service Instructions for an explanation of the possible problem.

The rated heating capacity of the furnace should be greater than or equal to the total heat loss of the area to be heated. The total heat loss should be calculated by an approved method or in accordance with "ASHRAE Guide" or "Manual J-Load Calculations" published by the Air Conditioning Contractors of America.

*Obtain from: American National Standards Institute 1430 Broadway New York, NY 10018

Location Considerations

- The furnace should be as centralized as is practical with respect to the air distribution system.
- Do not install the furnace directly on carpeting, tile, or combustible material other than wood flooring.
- When suspending the furnace from rafters or joists, use 3/8" threaded rod and 2" x 2" x 3/8" angle as shown in the Installation and Service Instructions. The length of the rod will depend on the application and clearance necessary.
- When installed in a residential garage, the furnace must be positioned so the burners and ignition source are located not less than 18 inches (457 mm) above the floor and protected from physical damage by vehicles.



To prevent possible personal injury or death due to asphyxiation, this furnace must be Category I vented. Do not vent using Category III venting.

Notes:

Category I Venting is venting at a non-positive pressure.
 A furnace vented as Category I is considered a fan-assisted appliance and the vent system does not have to be "gas tight."

NOTE: Gas furnaces with induced draft blowers draw products of combustion through a heat exchanger allowing, in some instances, common venting with natural draft appliances (i.e. water heaters). All installations must be vented in accordance with National Fuel Gas Code NFPA 54/ANSI Z223.1 - latest edition. In Canada, the furnaces must be vented in accordance with the National Standard of Canada, CAN/CSA B149.1 and CAN/CSA B149.2 - latest editions and amendments.

NOTE: The vertical height of the Category I venting system must be at least as great as the horizontal length of the venting system.



TO PREVENT POSSIBLE PERSONAL INJURY OR DEATH DUE TO ASPHYXIATION, COMMON VENTING WITH OTHER MANUFACTURER'S INDUCED DRAFT APPLIANCES IS NOT ALLOWED.

- 2. Line voltage wiring can enter through the right or left side of the furnace. Low voltage wiring can enter through the right or left side of furnace.
- 3. Conversion kits for high altitude natural or propane gas operation are available. See High Altitude Derate chart for details.
- 4. Installer must supply the following gas line fittings, depending on which entrance is used:

Left -- Two 90° Elbows, one close nipple, straight pipe.

Right -- Straight pipe to reach gas valve.

Accessibility Clearances (Minimum)

Unobstructed front clearanace of 24" **for servicing** is recommended.

Top clearance for horizontal confirguration - 1"

MINIMUM CLEARANCE TO COMBUSTIBLE MATERIALS - INCHES

	Sides	Rear	Eront	Front Bottom	Vent		Тор
l	Sides	Real	FIOIIL	БОПОПП	SW	В	тор
	1	0	3	С	6	1	1

Approved for line contact in the horizontal postion.

Refer to venting tables outlined in the installation manual for additional venting requirements.

24" at front is required for servicing or cleaning.

Note: In all cases accessibility clearance shall take precedence over clearances from the enclosure where accessibility clearances are greater. All dimensions are given in inches.

High Altitude Derate

IMPORTANT NOTE: The furnace as shipped requires no change to run between 0 - 4500 feet. Do not attempt to increase the firing rate by changing orifices or increasing the manifold pressure below 4500 feet. This can cause poor combustion and equipment failure.

High altitude installations above 4500 feet may require both a pressure switch and an orifice change. These changes are necessary to compensate for the natural reduction in the density of both the gas fuel and the combustion air at higher altitude.

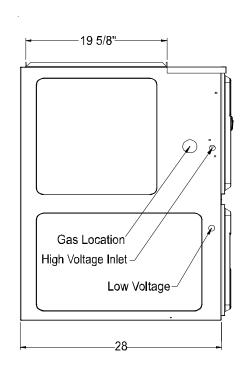
For installations above 4500 feet, please refer to your distributor for required kit(s). Contact the distributor for a tabular listing of appropriate manufacturer's kits for propane gas and/or high altitude installations. The indicated kits must be used to insure safe and proper furnace operation. All conversions must be performed by a qualified installer, or service agency.

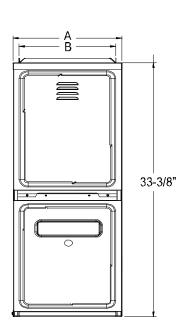
^{* 24&}quot; clearance for serviceability recommended.

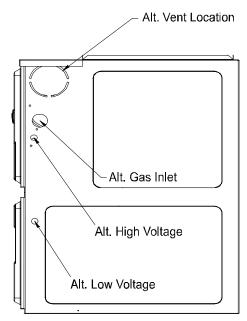
^{**} Single Wall Vent (SW) to be used only as a connector.

PRODUCT DIMENSIONS

GME8*****A







UNITS	Α	В	С	D
GME80603B***	17.5	16	33-3/8	28
GME80805C*** GME81005C***	21	19.5	33-3/8	28
GME80805D***	24.5"	23"	33-3/8	28

All dimensions are in inches.

PRESSURE SWITCH TRIP POINTS AND USAGE CHART				
MODEL	TRIP POINT ID BLOWER PRESSURE SWITCH	ID BLOWER PRESSURE SWITCH PART #		
GME80603B*A*	-0.60	B1370142		
GME80805C*A*	-0.75	B1370179		
GME81005C*A*	-0.90	0130F00041		

^{*} All installations above 7,000 ft. require a pressure switch change. For installations in Canada, the GME8 furnace is certified only to 4,500 ft.

^{*} Negative pressure readings are in inches of water column (*w.c.)

PRIMARY LIMIT		
Part Number	20162903	
Open Setting (°F)	160	
GME80603B*A*	1	
GME80805C*A*	1	
GME81005C*A*	1	

ROLLOUT LIMIT SWITCHES		
Part Number	10123529	
Open Setting (°F)	300	
GME80603B***	2	
GME80805C***	2	
GME81005C***	2	

AUXILIARY LIMIT SWITCHES		
Part Number 0130F000		
Open Setting (°F)	120	
GME80603B***	1	
GME80805C***	1	
GME81005C***	1	

PRESSURE SWITCH TRIP POINTS AND USAGE CHART				
MODEL	TRIP POINT ID BLOWER PRESSURE SWITCH	ID BLOWER PRESSURE SWITCH PART#		
GME80603B*B*	-0.90	0130F00041		
GME80805C*B*	-0.80	0130F00042		
GME80805D*A*	-0.80	0130F00042		
GME81005C*B*	-0.80	0130F00042		

- * All installations above 4,500 ft. require a pressure switch change.
 For installations in Canada, the GME8 furnace is certified only to 4,500 ft.
- * Negative pressure readings are in inches of water column (*w.c.)

PRIMARY LIMIT				
Part Number	20162904	20162903		
Open Setting (°F)	150	160		
GME80603B*B*	1			
GME80805C*B*		1		
GME81005C*B*	1			
GME80805D*A*		1		

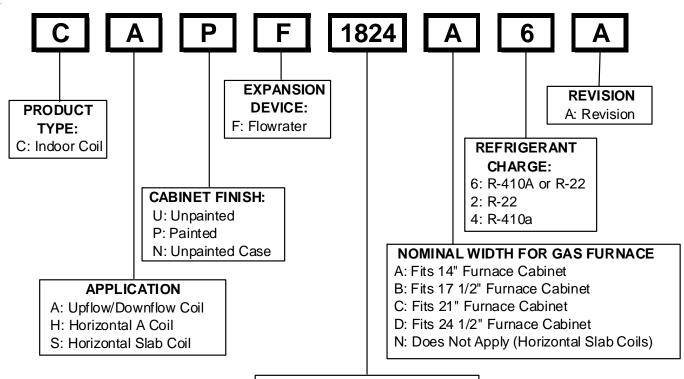
ROLLOUT LIMIT SWITCHES		
Part Number	10123529	
Open Setting (°F)	300	
GME80603B***	2	
GME80805C***	2	
GME81005C***	2	
GME80805D***	2	

AUXILIARY LIMIT SWITCHES		
Part Number	0130F00038	
Open Setting (°F)	120	
GME80603B***	1	
GME80805C***	1	
GME81005C***	1	
GME80805D***	1	

Coil Matches:

A large array of Amana® brand coils are available for use with the new GME8 furnaces, in either upflow or horizontal applications. These coils are available in both cased and uncased models (with the option of a field installed TXV expansion device). These 80% furnaces match up with the existing Amana® brand coils as shown in the chart below.

Coil Matches (for Goodman units using R22 and R-410A):



NOMINAL CAPACITY RANGE

@ 13 SEER

1824: 1 1/2 to 2 Tons

3030: 2 1/2 Tons

3636: 3 Tons

3642: 3 to 3 1/2 Tons

3743: 3 to 3 1/2 Tons

4860: 4 & 5 Tons

4961: 4 & 5 Tons

- All CAPF coils in B, C, & D widths have insulated blank off plates for use with one size smaller furnaces.
- All CAPF coils have a CAUF equivalent.
- All CHPF coils in B, C & D heights have an insulated Z bracket for use with one size smaller furnace.
- All proper coil combinations are subject to being AHRI rated with a matched outdoor unit.

Thermostats:

NOTE: Complete lineup of thermostats can be found in the Thermostat Specification Sheets.

Filters:

Filters are required with this furnace and must be provided by the installer. The filters used must comply with UL900 or CAN/ULCS111 standards. Installing this furnace without filters will void the unit warranty.

Upflow Filters

This furnace has provisions for the installation of return air filters at the side and/or bottom return. The furnace will accommodate the following filter sizes depending on cabinet size:

Side Return(s)				
Cabinet	Nominal	Approx.		
Width	Filter Size	Flow Area		
(in.)	(in.)	(in ²)		
All	16 x 25 x 1	400		

Bottom Return					
Cabinet Width	Nominal Filter Size	Approx. Flow Area			
(in.)	(in.)	(in ²)			
17-1/2	14 x 25 x 1	350			
21	16 x 25 x 1	400			

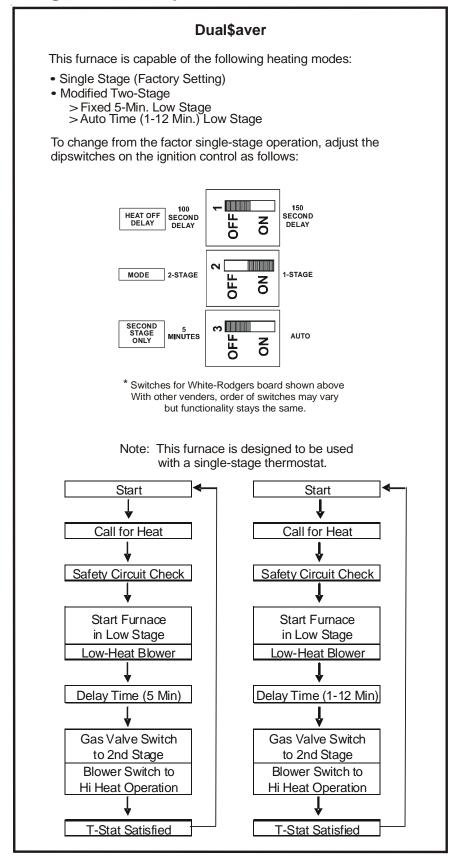
Refer to Minimum Filter Area tables to determine filter area requirement. **NOTE:** Filters can also be installed elsewhere in the duct system such as a central return.

MINIMUM FILTER SIZES for DISPOSABLE FILTERS

FURNACE INPUT	FILTER SIZE
60M	483 in ²
80M	640 in ²
100M	800 in ²

DISPOSABLE NOMINAL 300 F.M. FACE VELOCITY

Dual\$aver Configuration & Operation



FURNACE SPECIFICATIONS

MODEL	GME80603B*A*	GME80805C*A*	GME81005C*A*		
Input, Natural Gas (BTUH) ⁽¹⁾	70,000	90,000	115,000		
Output, Natural Gas (BTUH) ⁽¹⁾	56,000	72,000	92,000		
Output, LP (BTUH)	48,000	64,000	80,000		
A.F.U.E.	80.0%	80.0%	80.0%		
Rated External Static (" w.c.)	.2050	.2050	.2050		
Temperature Rise (°F)	20 - 50	35 - 65	35 - 65		
Pressure Switch Trip Point ("w.c.")	-0.60	-0.75	-0.90		
Blower Wheel (D" x W")	10 X 8	10 X 10	10 X 10		
Blower Horsepower	1/2	1	1		
Blower Speeds		Defeate simfless about			
Max CFM @ 0.5 E.S.P.		Refer to airflow charts			
Power Supply	120.0	120.0	120.0		
Minimum Circuit Ampacity (MCA) ⁽²⁾	8.2	14.8	14.8		
Maximum Overcurrent Device ⁽³⁾	15	15	15		
Transformer (VA)	40	40	40		
Primary Limit Setting (°F)	160	160	160		
Auxiliary Limit Setting (°F)	120	120	120		
Rollout Limit Setting (°F)	300	300	300		
Gas Supply Pressure (Natural/Propane) (" w.c.)	7 / 11	7 / 11	7 / 11		
Manifold Pressure (Natural/Propane) High Stage (" w.c.)	3.5 / 10	3.5 / 10	3.5 / 10		
Manifold Pressure (Natural/Propane) Low Stage ("w.c.)	2.0 / 6.0	2.0 / 6.0	2.0 / 6.0		
Orifice Size (Natural/Propane)	43 / 55	43 / 55	43 / 55		
Number of Burners	3	4	5		
Vent Connector Diameter (inches)	4	4	4		
Shipping Weight (lbs.)	98	116	120		

- All furnaces are manufactured for use on 115 VAC, 60 Hz, single-phase electrical supply.
- Gas Service Connection 1/2" FPT
- Important: Size fuses and wires properly and make electrical connections in accordance with the National Electrical Code and/or all existing local codes.

NOTES:

- * These furnaces are manufactured for natural gas operation. Optional Kits are available for conversion to propane gas operation.
- * For elevations above 2000 ft. the rating should be reduced by 4% for each 1000 ft. above sea level. The furnace must not be derated, orifice changes should only be made if necessary for altitude.
- * The total heat loss from the structure as expressed in TOTAL BTU/HR must be calculated by the manufactures method in accordance with the "A.S.H.R.A.E. GUIDE" or "MANUAL J-LOAD CALCULATIONS" published by the AIR CONDITIONING CONTRACTORS OF AMERICA. The total heat loss calculated should be equal to or less than the heating capacity. Output based on D.O.E. test procedures, steady state efficiency times output.

¹ Natural Gas BTU/h. For altitudes above 2,000', reduce input rating 4% for each 1,000' above sea level.

² DOE AFUE based upon Isolated Combustion System (ICS)

³ Vent and combustion air 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 Ca

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:**

FURNACE SPECIFICATIONS

MODEL	GME80603B*B*	GME80805C*B*	GME80805D*A*	GME81005C*B*
Input, Natural Gas (BTUH) ⁽¹⁾	60,000	80,000	80,000	100,000
Output, Natural Gas (BTUH) ⁽¹⁾	48,000	64,000	64,000	80,000
Output, LP (BTUH)	48,000	64,000	64,000	80,000
AF.U.E.	80.0%	80.0%	80.0%	80.0%
Rated External Static (" w.c.)	.2050	.2050	.2050	.2050
Temperature Rise (°F)	20 - 50	35 - 65	30 - 60	35 - 65
Pressure Switch Trip Point ("w.c.")	-0.90	-0.80	-0.80	-0.80
Blower Wheel (D" x W")	10 X 8	10 X 10	10 X 10	10 X 10
Blower Horsepower	1/2	1	1	1
Blower Speeds		Defente sid	levi elegiste	
Max CFM @ 0.5 E.S.P.		Refer to airf	iow charts	
Power Supply	120.0	120.0	120.0	120.0
Minimum Circuit Ampacity (MCA) ⁽²⁾	8.2	14.8	14.8	14.8
Maximum Overcurrent Device ⁽³⁾	15	15	15	15
Transformer (VA)	40	40	40	40
Primary Limit Setting (°F)	150	160	160	150
Auxiliary Limit Setting (°F)	120	120	120	120
Rollout Limit Setting (°F)	300	300	300	300
Gas Supply Pressure (Natural/Propane) (" w.c.)	7/11	7/11	7/11	7/11
Manifold Pressure (Natural/Propane) High Stage (" w.c.)	3.5 / 10	3.5 / 10	3.5 / 10	3.5 / 10
Manifold Pressure (Natural/Propane) Low Stage ("w.c.)	2.0/6.0	2.0 / 6.0	2.0 / 6.0	2.0/6.0
Orifice Size (Natural/Propane)	45 / 55	45 / 55	45 / 55	45 / 55
Number of Burners	3	4	4	5
Vent Connector Diameter (inches)	4	4	4	4
Shipping Weight (lbs.)	98	116	123	120

NOTES:

- * These furnaces are manufactured for natural gas operation. Optional Kits are available for conversion to propane gas operation.
- The total heat loss from the structure as expressed in TOTAL BTU/HR must be calculated by the manufactures method in accordance with the "A.S.H.R.A.E. GUIDE" or "MANUAL J-LOAD CALCULATIONS" published by the AIR CONDITIONING CONTRACTORS OF AMERICA. The total heat loss calculated should be equal to or less than the heating capacity. Output based on D.O.E. test procedures, steady state efficiency times output.

Unit specifications are subject to change without notice. **ALWAYS** refer to the unit's serial plate for the most up-to-date general and electrical information.

¹ DOE AFUE based upon Isolated Combustion System (ICS)

² Vent and combustion air 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 Ca

³ 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.

⁴ 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 1/2" FPT

[•] Important: Size fuses and wires properly and make electrical connections in accordance with the National Electrical Code and/or all existing local codes.

BLOWER PERFORMANCE SPECIFICATIONS

GME80603B*A*, GME80805C*A*, GME81005C*A*

(CFM & Temperature Rise vs. External Static Pressure)																
Model		Tons AC		EXTERNAL STATIC PRESSURE (Inches Water Column)												
Heating Speed	Motor Speed	at 0.5"	0	0.1		0.2		0.3		0.4		.5	0.6	0.7	0.8	
As Shipped		ESP	CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE	CFM	CFM	CFM	
	T1 - YELLOW	1.5	875	59	793	65	736	70	674	77	592	88	556	509	460	
	T2 - RED	2.0	1032	50	965	54	914	57	861	60	810	64	756	712	659	
GME80603B*A*	T3 - ORANGE	2.5	1217	43	1153	45	1098	47	1051	49	1009	51	964	918	877	
	T4 - BLUE	3.0	1365	38	1313	39	1268	41	1221	42	1172	44	1129	1086	1054	
	T5 - BLACK	3.5	1549	33	1505	34	1460	36	1420	37	1378	38	1350	1305	1268	
	T1 - YELLOW	2.5	1268	53	1198	56	1151	58	1092	61	1041	64	988	932	883	
	T2 - RED	3.0	1362	49	1305	51	1261	53	1212	55	1170	57	1121	1074	1021	
GME80805C*A*	T3 - ORANGE	3.5	1576	42	1519	44	1473	45	1426	47	1398	48	1341	1290	1252	
	T4 - BLUE	4.0	1755	38	1711	39	1657	40	1627	41	1579	42	1548	1502	1463	
	T5 - BLACK	5.0	2183	31	2128	31	2094	32	2060	32	2014	33	1992	1944	1847	
	T1 - YELLOW	3.0	1466	58	1415	60	1357	63	1306	65	1248	68	1202	1144	1088	
	T2 - RED	3.5	1642	52	1596	53	1552	55	1499	57	1449	59	1388	1352	1306	
GME81005C*A*	T3 - ORANGE	4.0	1750	49	1750	49	1707	50	1667	51	1610	53	1574	1531	1486	
	T4 - BLUE	4.0	1870	46	1805	47	1782	48	1737	49	1701	50	1656	1606	1571	
	T5 - BLACK	5.0	2297	37	2297	37	2224	38	2106	40	2014	42	1896	1813	1669	

- 1. CFM in chart is without filters(s). Filters do not ship with this furnace, but must be provided by the installer.
- 2. All furnaces ship as high speed cooling. Installer must adjust blower cooling speed as needed.
- 3. For most jobs, about 400 CFM per ton when cooling is desirable.
- 4. INSTALLATION IS TO BE ADJUSTED TO OBTAIN TEMPERATURE RISE WITHIN THE RANGE SPECIFIED ON THE RATING PLATE.
- 5. The chart is for information only. For satisfactory operation, external static pressure must not exceed value shown on rating plate. The shaded area indicates ranges in excess of maximum external static pressure allowed when heating. The data for 0.6" w.c. to 0.8" w.c. is shown for air conditioning purposes only.
- 6 The dashed (---) areas indicate a temperature rise not recommended for this model.
- 7. A properly derated unit will have approximately the same temperature rise at a particular CFM, while the ESP at that CFM will be lower.

BLOWER PERFORMANCE SPECIFICATIONS

GME8

(CFM & Temperature Rise vs. External Static Pressure)															
Model		TonsAC	EXTERNAL STATIC PRESSURE (Inches Water Column)												
Heating Speed As Shipped	Motor Speed	at 0.5"	0	0.1		0.2		0.3		0.4		0.5		0.7	0.8
		ESP	CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE	CFM	CFM	CFM
	T1 - YELLOW	1.5	875		793		736		674		592		556	509	460
	T2 - RED	2 .0	1032	43	965	46	914	49	861		810		756	712	659
GME80603B***	T3 - ORANGE	2 .5	1217	37	1153	39	1098	40	1051	42	1009	4 4	964	918	877
	T4 - BLUE	3 .0	1365	33	1313	34	1268	35	1221	36	1172	38	1129	1086	1054
	T5 - BLACK	3 .5	1549	29	1505	30	1460	30	1420	31	1378	32	1350	1305	1268
	T1 - YELLOW	2.5	1268	47	1198	49	1151	51	1092	54	1041	57	988	932	883
	T2 - RED	3 .0	1362	44	1305	45	1261	47	1212	49	1170	51	1121	1074	1021
GME80805C***	T3 - ORANGE	3 .5	1576	38	1519	39	1473	40	1426	42	1398	42	1341	1290	1252
	T4 - BLUE	4 .0	1755		1711	35	1657	36	1627	36	1579	38	1548	1502	1463
	T5 - BLACK	5 .0	2183		2128		2094		2060		2014		1992	1944	1847
	T1 - YELLOW	3 .5	1524	39	1479	40	1439	41	1388	43	1343	4 4	1281	1243	1190
	T2 - RED	4 .0	1683	35	1646	36	1607	37	1569	38	1531	39	1488	1441	1395
GME80805D*** (MED-HI)	T3 - ORANGE	4 .0	1884	31	1832	32	1849	32	1765	34	1724	3 4	1692	1661	1626
(,	T4 - BLUE	4 .0	1951	30	1904	31	1879	32	1842	32	1803	33	1768	1734	1687
	T5 - BLACK	5 .0	2036	29	2010	29	1977	30	1947	30	1923	3 1	1888	1844	1816
	T1 - YELLOW	3.0	1466	51	1415	52	1357	55	1306	57	1248	59	1202	1144	1088
	T2 - RED	3 .5	1642	45	1596	46	1552	48	1499	49	1449	5 1	1388	1352	1306
GME81005C***	T3 - ORANGE	4 .0	1750	42	1750	42	1707	43	1667	44	1610	46	1574	1531	1486
	T4 - BLUE	4 .0	1870	40	1805	41	1782	42	1737	43	1701	4 4	1656	1606	1571
	T5 - BLACK	5.0	2297		2297		2224		2106	35	2014	37	1896	1813	1669

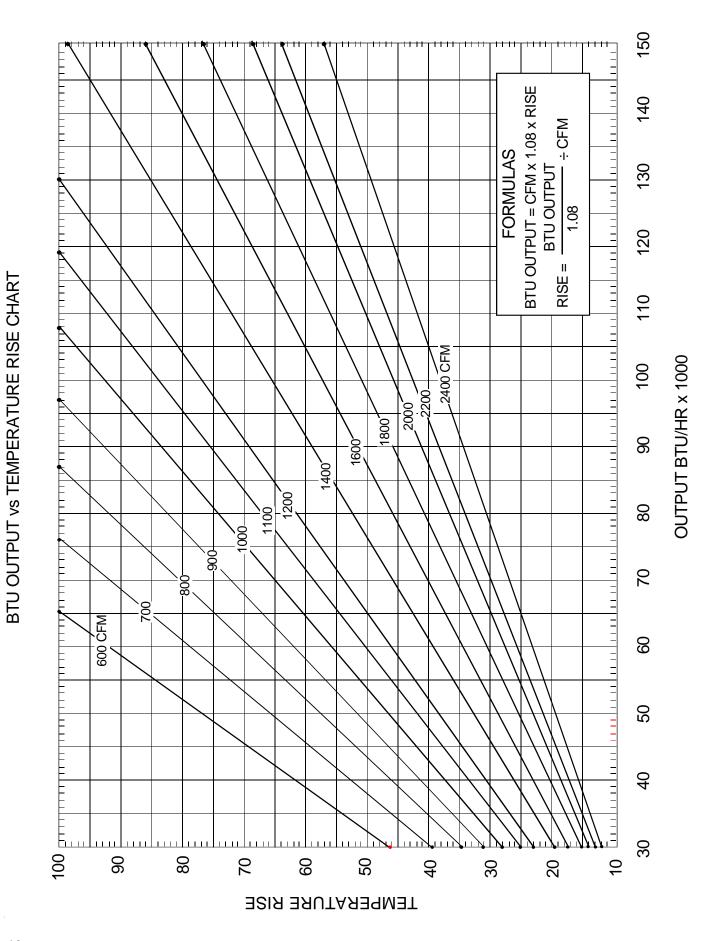
Notes:

- 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.
 A properly derated unit will have approximately the same temperature rise at a particular CFM, while ESP at the CFM will be lower.

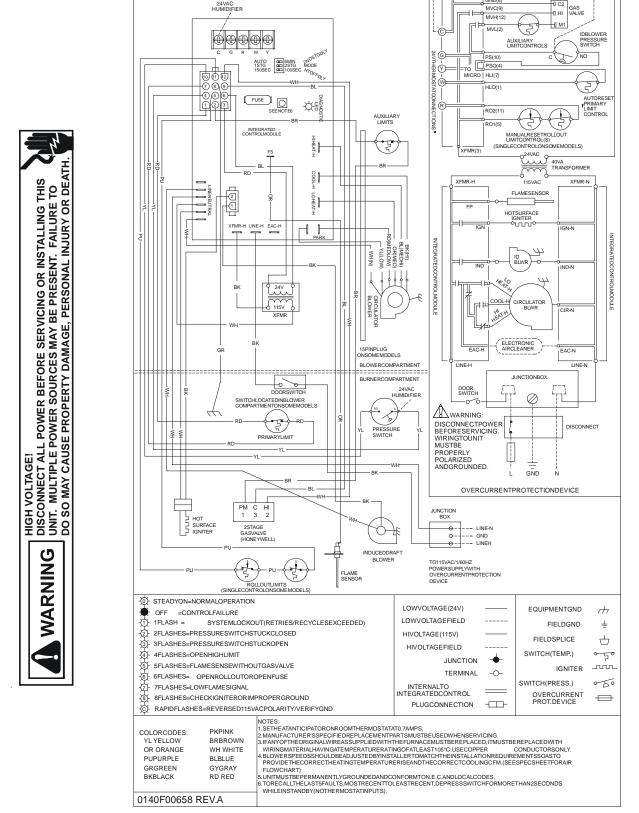
- Factory Motor Speed Setting: T1 = 1st Stage Ht, T2 = 2nd Stage Ht, T5 = Cooling.
 Temperature rise data is based on 2nd-stage heat. First-stage heat is 75% of rise indicated above.

BLOWER PERFORMANCE SPECIFICATIONS

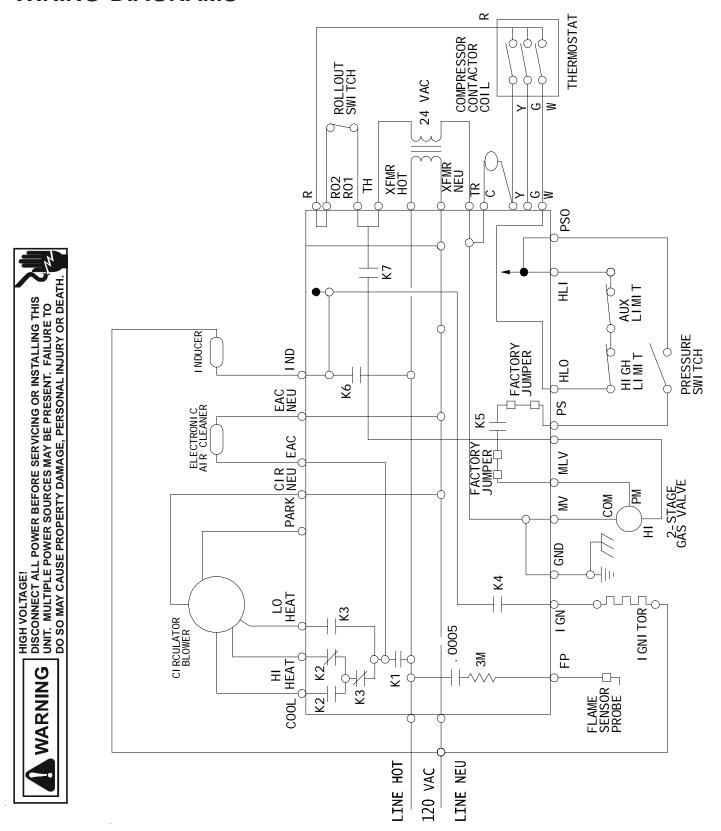


(HUMIDIFIER)

XFMR(6)



WIRING DIAGRAMS



TYPICAL SCHEMATIC

GME8 ____** MODEL FURNACES

WR 50M56-289 INTEGRATED IGNITION CONTROL