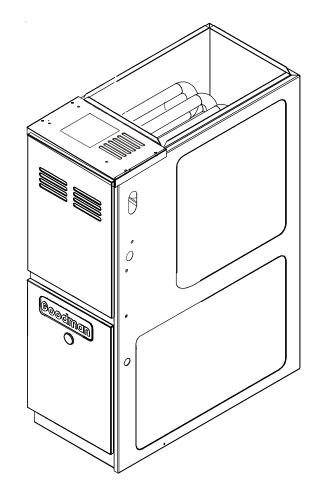
Goodman[®] TECHNICAL MANUAL

GMS8 33-3/8" Gas Furnace Units 80% AFUE, Single Stage, Multi-Speed, Upflow Horizontal

- Refer to Service Manual RS6612006 for troubleshooting information.
- Refer to the appropriate Parts Catalog for part number information.
- Model numbers listed on page 3.





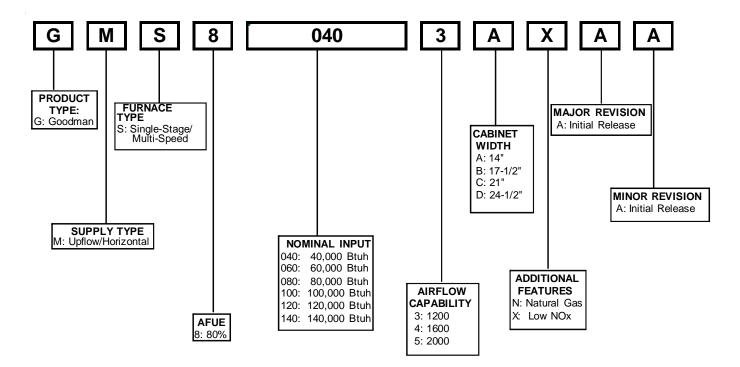
This manual is to be used by qualified, professionally trained HVAC technicians only. Goodman does not assume any responsibility for property damage or personal injury due to improper service procedures performed by an unqualified person.

RT6621031r2 November 2013

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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.



Installation and repair of this unit should be performed ONLY by individuals meeting the requirements of an "entry level

technician" 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.

GMS80403A*BB GMS80603A*BB GMS80604B*BB GMS80804B*BB GMS80805C*BB GMS81005C*BB GMS81205D*BA GMS81405DNCC

*These models available in Natural Gas and Low NOx.

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. damage, personal injury, or death, do not store combustible materials or use gasoline or other flammable liquids or vapors in the vicinity of this appliance.

To prevent the risk of property

PRODUCT DESIGN

General Operation

The GMS8 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 inner blower door is not in place. Keep the blower access door in place except for inspection and maintenance. (See illustration on pages 5 and 6.)

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 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.

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:** Single stage 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.

Accessibility Clearances (Minimum)

Unobstructed front clearanace of 24" for servicing is recommended.

Sides Rea	6	Deer Frentt		Vent		
	Rear	Front*	SW	В	Тор	
1	0	3	6	1	1	

* 24" clearnace for serviceability recommended.
** Single Wall Vent (SW) to be used only as a conncetor.

Single Wall Vent (SW) to be used only as a connector. Refer to the venting tables outlined in the Installation Manual for additional venting requirements.

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.

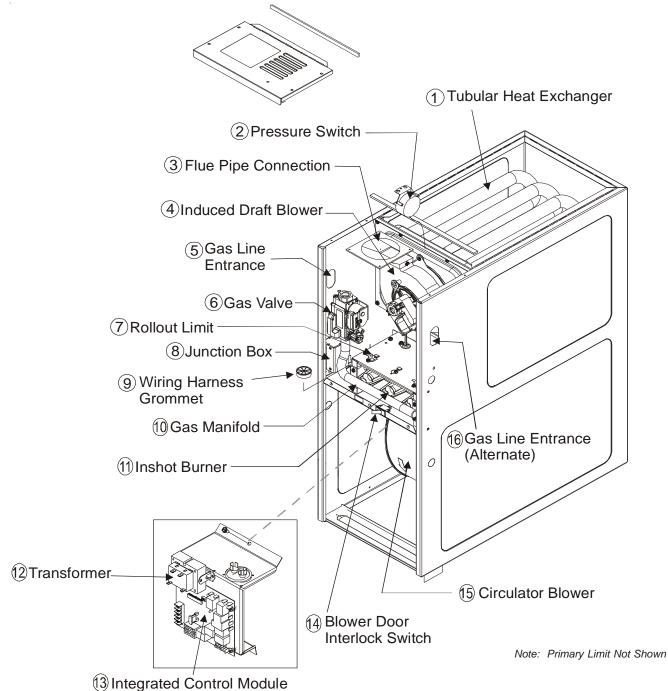
High Altitude Derate

IMPORTANT NOTE: The furnace as shipped requires no change to run between 0 - 5500 feet. Do not attempt to increase the firing rate by changing orifices or increasing the manifold pressure below 5500 feet. This can cause poor combustion and equipment failure.

High altitude installations above 5500 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 5500 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.

COMPONENT IDENTIFICATION



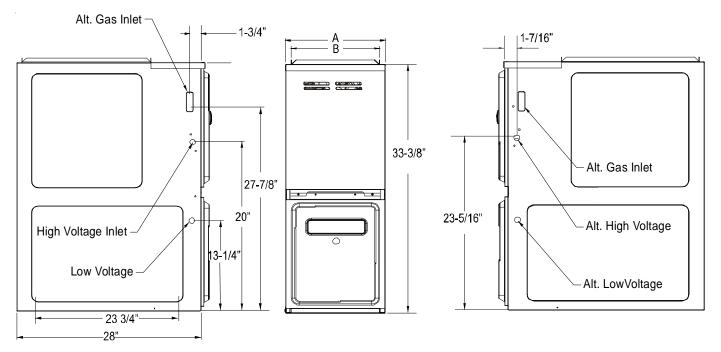
Upflow/Horizontal

- 1 Tubular Heat Exchanger
- 2 Pressure Switch
- 3 Flue Pipe Connection
- 4 Induced Draft Blower
- 5 Gas Line Entrance
- 6 Gas Valve
- 7 Rollout Limit
- 8 Junction Box

- 9 Wiring Harness Grommet
- 10 Gas Manifold
- 11 Inshot Burner
- 12 Transformer
- 13 Integrated Control Module
- 14 Blower Door Interlock Swtich
- 15 Circulator Blower
- 16 Gas Line Entrance (Alternate)

PRODUCT DIMENSIONS

GMS8



MODEL	А	В
GMS80403A***	14	12 - 1/2
GMS80603A***		/_
GMS80604B***	17 - 1/2	16
GMS80804B***	17 - 172	10
GMS80805C***	21	19 - 1/2
GMS81005C***	21	10 172
GMS81205D***	24 - 1/2	23
GMS81405DN**		

PRODUCT DIMENSIONS

GMS8[040-100]BB GMS81205D*BA GMS81405DNCC

Pressure Switch Trip Points						
Model	Trip Point ID Blower Pressure Switch	ID Blower Pressure Switch Part #				
GMS80403A*BB	-0.70	B1370158				
GMS80603A*BB	-0.75	B1370179				
GMS80604B*BB	-0.75	B1370179				
GMS80804B*BB	-0.70	B1370158				
GMS80805C*BB	-0.75	B1370179				
GMS81005C*BB	-0.70	B1370158				
GMS81205D*BA	-0.80	0130F00042				
GMS81405DNCC	-0.80	0130F00042				

For installations in Canada, the GMS furnaces are certifed only to 4,500 ft.

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

PRIMARY LIMIT							
Part Number	20162901	20162904	20162903				
Open Setting (°F)	210	150	160				
GMS80403A*BB	1						
GMS80603A*BB		1					
GMS80604B*BB		1					
GMS80804B*BB		1					
GMS80805C*BB			1				
GMS81005C*BB		1					
GMS81205D*BA			1				
GMS81405DNCC			1				

ROLLOUT LIMIT SWITCHES					
Part Number	10123529				
Open Setting (°F)	300				
GMS80403A*BB	2				
GMS80603A*BB	2				
GMS80604B*BB	2				
GMS80804B*BB	2				
GMS80805C*BB	2				
GMS81005C*BB	2				
GMS81205D*BA	2				
GMS81405DNCC	2				

AUXILIARY LIMIT SWITCHES					
Part Number	0130F00038				
Open Setting (°F)	120				
GMS80403A*BB	1				
GMS80603A*BB	1				
GMS80604B*BB	1				
GMS80804B*BB	1				
GMS80805C*BB	1				
GMS81005C*BB	1				
GMS81205D*BA	1				
GMS81405DNCC	1				

PRODUCT DESIGN

Thermostats:

It is recommended that a single-stage heat, non-power robbing thermostat be used. Refer to the product marketing literature for a complete list of thermostats offered.

THERMOSTATS								
Thermostat Man/Auto Programmable Cool Heat Batt. Powered Batt. Bk								
1213406*	Man. Or Auto	Yes	2	3	No	No		
1213407	Man. Changeover	Yes	2	2	Yes	Yes		
1213411	Man. Changeover	No	2	2	Yes	No		

*1213406 is the recommended model for the G*S* furnaces when used with a heat pump in a fossil fuel application. It is NOT for use with the G*S8 as a sole heating source. 1213406 thermstats are 24V powered with battery backup.

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

SIDE RETURN						
Cabinet Nominal Approx.						
Width	Filter Size	Flow Area				
(in.)	(in.)	(in ²)				
All	16 x 25 x 1	400				

Upflow Filters

BOTTOM RETURN						
Cabinet	Nominal	Approx.				
Width	Filter Size	Flow Area				
(in.)	(in.)	(in²)				
17-1/2	14 x 25 x 1	350				
21	16 x 25 x 1	400				
24-1/2	20 x 25 x 1	500				

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.

	Stor DISPOSABLE FILTERS
FURNACEINPUT	FILTER SIZE
40M	320 in ²
60M	483 in ²
80M	640 in ²
100M	800 in ²
120M	738 in ²
140M	738 in ²

DISPOSABLE NOMINAL 300 F.M. FACE VELOCITY

FURNACE SPECIFICATIONS

GMS8[040-100]BB GMS81205D*BA GMS81405DNCC

MODEL	GMS80403A*BB	GMS80603A*BB	GMS80604B*BB	GMS80804B*BB	GMS80805C*BB	GMS81005C*BB	GMS81205D*BA	GMS81405DNCC
Btuh Input (US) High Fire	40,000	60,000	60,000	80,000	80,000	100,000	120,000	140,000
Output (US) High Fire	32,000	48,000	48,000	64,000	64,000	80,000	96,000	112,000
A.F.U.E.	80%	80%	80%	80%	80%	80%	80%	80%
Rated External Static (" w.c.)	.2050	.2050	.2050	.2050	.2050	.2050	.2050	.2050
Temperature Rise (°F)	25 - 55	25 -55	20 - 50	35 - 65	35 - 65	35 - 65	40 - 70	40 - 70
High Stage Pressure Switch Trip Point (" w.c.)	-0.70	-0.75	-0.75	-0.70	-0.75	-0.70	-0.80	-0.80
Blower Wheel (D" x W")	10 X 6	10 x 6	10 x 8	10X8	10x10	10X10	11x10	11x10
Blower Horsepower	1/3	1/3	1/2	1/2	1/2	1/2	3/4	3/4
Blower Speeds	4	4	4	4	4	4	4	4
Max CFM @ 0.5 E.S.P.	1298	1157	1883	1725	1960	1974	2131	2131
Power Supply	115-60-1	115-60-1	115-60-1	115-60-1	115-60-1	115-60-1	115-60-1	115-60-1
Minimum Circuit Ampacity (MCA) ⁽¹⁾	8.5	8.5	12.9	12.9	12.9	12.9	15.2	14.7
Maximum Overcurrent Device ⁽²⁾	15	15	15	15	15	15	15	15
Transformer (VA)	40	40	40	40	40	40	40	40
Heat Anticipator (Amps)	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Primary Limit Setting (°F)	210°	150°	150°	150°	160°	150°	160°	160°
Auxiliary Limit Setting (°F)	120°	120°	120°	120°	120°	120°	120°	120°
Rollout Limit Setting (°F)	300°	300°	300°	300°	300°	300°	300°	300°
Gas Supply Pressure (Natural/Propane) (" w.c.)	7 / 11	7 / 11	7 / 11	7 / 11	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	3.5 / 10	3.5 / 10	3.5 / 10	3.5 / 10
Orifice Size (Natural/Propane)	#45 / #55	#45 / #55	#45 / #55	#45 / #55	#45 / #55	#45 / #55	#45 / #55	#43 / #55
Number of Burners	2	3	3	4	4	5	6	6
Vent Connector Diameter (inches) ⁽³⁾	4	4	4	4	4	4	4	4
Shipping Weight (lbs.)	84	88	98	106	114	118	130	130

⁽¹⁾ Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.

⁽²⁾ Maximum Overcurrent Protection Device: May use Time Delay Fuse or HACR type Circuit Breaker of the same size as noted.

⁽³⁾ See Installation Instructions for appropriate vent diameter, length and number of elbows.

- 1. These furnaces are manufactured for natural gas operation. Optional Kits are available for conversion to propane gas operation.
- 2. 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.
- 3. 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.
- 4. Minimum Circuit Ampacity calculated as: (1.25 x Circulator Blower Amps) + I.D. Blower Amps.

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.

BLOWER PERFORMANCE SPECIFICATIONS

GMS8[040-100]BB GMS81205D*BA GMS81405DNCC

Modell Heating Speed As Shpped Tons AC Propertion EXTERNAL STATIC PRESSURE (Incles WaterColumn) Heating Speed As Shpped Tons AC Propertion 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 Miss Shpped High 0.1 ECFM RISE CFM			(CFM & ⁻	Temp	eratur	e Rise	e vs. E	Extern	al Sta	tic Pr	essur	e)					
Heating Speed Speed io.space io.space	Model		Tons AC			EXTE	EXTERNAL STATIC PRESSURE (Inches Water Column)										
As Shipped ESP CFM RISE	0 1		at 0.5"	0.1		0.2		0.3		0.4		0.5		0.6	0.7	0.8	
*MS80403A*BB MED 2.5 1160 26 110 26 112 26 102 27 1042 97 925 (MEDIUM) MED-L0 2.0 961 31 956 31 948 31 932 32 913 33 862 821 803 LOW 1.5 781 38 781 38 773 38 761 32 745 <td>ESP</td> <td>CFM</td> <td>RISE</td> <td>CFM</td> <td>RISE</td> <td>CFM</td> <td>RISE</td> <td>CFM</td> <td>RISE</td> <td>CFM</td> <td>RISE</td> <td>CFM</td> <td>CFM</td> <td>CFM</td>			ESP	CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE	CFM	CFM	CFM	
(MEDIUM) MED-LO 2.0 961 31 955 31 948 731 932 731 33 822 821 833 LOW 1.5 781<		HIGH	3.0	1521		1466		1414		1373		1298		1243	1164	1075	
LOW 1.5 781 38 785 38 781 38 773 38 781 32 745 716 688 'MS80603A'BB MED 2.5 1098 40 1081 41 1051 42 1039 43 1021 44 983 924 868 (MEDIUM) MED-LO 2.0 919 48 913 49 892 50 847 829 816 720 728 (MEDIUM) MED-LO 2.0 919 48 913 49 892 50 847 829 816 720 728 LOW 1.55 758 663 7 1656 27 1645 27 1616 28 1549 1422 131 (MEDIUM) MED-LO 3.0 1419 31 1426 31 1426 31 1422 31 1439 1439	*MS80403A*BB	MED	2.5	1160	26	1160	26	1132	26	1121	26	1082	27	1042	997	925	
HIGH 3.0 1422 31 1352 33 1307 34 1197 37 1157 38 1092 1075 983 ''MS80603A''BB MED 2.5 1098 40 1081 41 1051 42 1039 43 1021 44 983 924 868 (MEDIUM) MED-LO 2.0 919 48 913 49 892 50 847 829 818 792 728 LOW 1.5 758 741 733 699 677 649 626 ''MS80604B'BB MED 3.5 1668 27 1663 1142 31 1432 31 1419 31 1328 1214 1419 31 1378 1328 1241 1317 38 144 1111 1071 (MEDUM) MED-LO 3.0 1693 35 1668	(MEDIUM)	MED-LO	2.0	961	31	955	31	948	31	932	32	913	33	882	821	803	
''MS80603A'BB (MEDLU)MED (MED-LO2.510984.910814.110514.210394.310214.49.839.248.88(MEDLU)MED-LO2.09194.89139748.925.08.478.298.187.227.28LOW1.57.587.417.417.338.932.417.66.496.26''MS80604B'BB (MEDLU)MED-LO3.516682.716632.716562.716452.716162.81.491.491.491.491.491.491.411		LOW	1.5	781	38	785	38	781	38	773	38	761	32	745	716	668	
(MEDIUM) MED-LO 2.0 919 4.8 913 4.9 892 50 8.47 8.8 7.27 6.49 6.20 LOW 1.5 758 741 741 733 699 649 620 *MS80604B*BB MED 3.5 1668 27 1656 27 1645 27 161 28 124 141 <td></td> <td>HIGH</td> <td>3.0</td> <td>1422</td> <td>31</td> <td>1352</td> <td>33</td> <td>1307</td> <td>34</td> <td>1197</td> <td>37</td> <td>1157</td> <td>38</td> <td>1092</td> <td>1075</td> <td>983</td>		HIGH	3.0	1422	31	1352	33	1307	34	1197	37	1157	38	1092	1075	983	
LOW 1.5 758 741 733 699 677 649 626 "MS80604B"BB MED 3.5 1668 27 1663 27 1656 27 1645 27 1616 28 149 149 149 (MEDIUM) MED-LO 3.0 1419 31 1426 31 1426 31 1432 31 1419 31 1378 1328 1261 (MEDIUM) MED-LO 3.0 1419 31 1426 31 1426 31 1432 31 141 111 1071 MED 3.5 1736 1708 35 1652 36 1611 37 154 38 1329 1274 1204 (MED 3.0 1693 35 1668 36 1459 41 1429 41 138 43 1329 1204 1301 1416 <	*MS80603A*BB	MED	2.5	1098	40	1081	41	1051	42	1039	43	1021	44	983	924	868	
HIGH 4.0 213 21 210 21 2042 22 1975 23 1883 24 1786 1700 1601 *MS80604B*BB MED 3.5 1668 27 1656 27 1645 27 1616 28 1549 1492 1391 (MEDIUM) MED-LO 3.0 1419 31 1426 31 1426 31 1426 31 1432 31 1419 31 1378 1328 1261 LOW 2.5 1134 39 1145 39 1166 38 1171 38 1160 38 144 1111 1071 *MS80804B*BB MED 3.5 1736 1708 35 1652 36 1611 37 1540 38 1475 1394 1307 (MEDIUM) MED-LO 3.0 1693 35 1668 36 1459 41 1429 41 138	(MEDIUM)	MED-LO	2.0	919	48	913	49	892	50	847		829		818	792	728	
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(MEDIUM) (DED-LOMED-LO3.014193.114263.114263.114263.114323.114.193.113.7813.2813.28LOW2.511343911453911663811713811063811413811013811411011'MS80804B'BBMED3.51736170835165236161137154038147513941307(MEDIUM)MED-LO3.0169335166836145941142941138943133912741204MED-LO3.0169335166836145941142941138943132812741204MED-LO3.01693120491185501180501173511585111251205MED4.01852122912552047161436156714691328MED-LO3.51615371592371556381516391470401409146914		HIGH	4.0	2134	21	2100	21	2042	22	1975	23	1883	24	1786	1700	1601	
LOW 2.5 1134 39 1145 39 1166 38 1171 38 1160 38 1144 111 1071 *MS80804B*BB MED 3.5 1736 1983 1895 1812 1725 1627 1530 1439 *MS80804B*BB MED 3.5 1736 1708 35 1652 36 1611 37 1540 38 1475 1394 1307 (MEDIUM) MED-LO 3.0 1693 35 1668 36 1459 41 1429 41 1389 43 1339 1274 1204 LOW 2.5 1200 49 1185 50 1173 51 1158 51 1125 168 1382 *MS80805C*BB MED 4.0 1852 1777 1719 1641 36 1567 1469	*MS80604B*BB	MED	3.5	1668	27	1663	27	1656	27	1645	27	1616	28	1549	1492	1391	
*MS80804B*BB HIGH 4.0 2051 1983 1895 1812 1725 1627 1530 1439 *MS80804B*BB MED 3.5 1736 1708 35 1652 36 1611 37 1540 38 1475 1394 1307 (MEDIUM) MED-LO 3.0 1693 35 1668 36 1459 41 1429 41 1389 43 1339 1274 1204 LOW 2.5 1200 49 1185 50 1180 50 1173 51 1158 51 1125 1204 1204 *MS80805C*BB MED 4.0 1852 1870 1777 1719 1641 36 1567 1469 1325 (MEDIUM) MED-LO 3.5 1615 37 1592 37 1556 38 1516 39 1470 40 1405 1346 1255 (MEDIUM) MED-LO	(MEDIUM)	MED-LO	3.0	1419	31	1426	31	1426	31	1432	31	1419	31	1378	1328	1261	
*MS80804B*BBMED3.5.1.73617083.5.16523.616113.7.15403.8.147513941307(MEDIUM)MED-LO3.0.16933.5.16683.614594.114294.113894.3.133912.7412.04LOW2.5.12004.911855.011805.011735111585.1115212.012.0*MS80805C*BBMED4.0.1852182017.7717.1916.113.616.6716.913.814.0513.814.0513.814.0513.814.0513.814.0513.814.05 <t< td=""><td></td><td>LOW</td><td>2.5</td><td>1134</td><td>39</td><td>1145</td><td>39</td><td>1166</td><td>38</td><td>1171</td><td>38</td><td>1160</td><td>38</td><td>1144</td><td>1111</td><td>1071</td></t<>		LOW	2.5	1134	39	1145	39	1166	38	1171	38	1160	38	1144	1111	1071	
(MEDIUM)MED-LO3.0.169335166836145941142941138943133912741204LOW2.5.12004911855011805011735111585111251205100*MS80805C*BBMED4.01852182017771719164136156714691326(MEDIUM)MED-3.5.161537159237155638151639147040014051346(MEDIUM)MED-3.5.16153715923715563815163914704014051404904*MS81005C*BBMED4.0.185840184740179941174442167444157714391399*MS81005C*BBMED4.0.185840184740179941174442167444157714931399(MEDIUM)MED-LO3.5.159646158747157147155248149350139713261217*MS81205D*BAMED4.0.157556155857154558151359150059141913541214*MS81205D*BAMED4.0.157556155857154558151359 <t< td=""><td></td><td>HIGH</td><td>4.0</td><td>2051</td><td></td><td>1983</td><td></td><td>1895</td><td></td><td>1812</td><td></td><td>1725</td><td></td><td>1627</td><td>1530</td><td>1439</td></t<>		HIGH	4.0	2051		1983		1895		1812		1725		1627	1530	1439	
LOW 2.5 1200 49 185 50 180 50 1173 51 1158 51 1125	*MS80804B*BB	MED	3.5	1736		1708	35	1652	36	1611	37	1540	38	1475	1394	1307	
*MS80805C*BB HIGH 5.0 2290 2229 2155 2047 1960 1837 1712 1584 *MS80805C*BB MED 4.0 1852 1820 1777 1719 1641 36 1567 1469 1382 (MEDIUM) MED-LO 3.5 1615 37 1592 37 1556 38 1516 39 1470 40 1405 1346 1235 LOW 3.0 1290 46 1285 46 1265 47 1235 48 1214 49 1174 1044 904 *MS81005C*BB MED 4.0 1858 40 1847 40 1799 41 1744 42 1674 44 1577 1493 1399 (MEDIUM) MED-LO 3.5 1596 46 1587 47 1571 47 1552 48 1493 50 1397 1326 1217 (MEDIUM)	(MEDIUM)	MED-LO	3.0	1693	35	1668	36	1459	41	1429	41	1389	43	1339	1274	1204	
*MS80805C*BB MED 4.0 1852 1820 1777 1719 1641 36 1567 1469 1382 (MEDIUM) MED-LO 3.5 1615 37 1592 37 1556 38 1516 39 1470 40 1405 1346 1235 LOW 3.0 1290 46 1285 46 1265 47 1235 48 1214 49 174 404 194 904 MED 5.0 2323 2225 2120 35 2040 36 1974 48 1801 1688 1577 *MS81005C*BB MED 4.0 1858 40 1847 40 1799 41 174 42 1674 44 1577 1493 1399 (MEDIUM) MED-LO 3.5 1596 161 167 177 1471 147 149 149 149 149 149 141 160 (MEDIUM) MED-LO		LOW	2.5	1200	49	1185	50	1180	50	1173	51	1158	51	1125	1125	1080	
(MEDIUM)MED-LO3.5161537159237155638151639147040140513461235LOW3.012904612854612654712354812144911741044904*MS81005C*BBMED4.0185840184740179941174442167444157714931399(MEDIUM)MED-LO3.5159646158747157147155248149350139713261217LOW3.0129157127258126159125759120561116811181060MED-LO3.5159646158747157147155248149350139713261217LOW3.0129157127258126159125759120561116811181060*MS81205D*BAMED4.0157556155857154558151359150059141913541271(MEDIUM)MED-LO3.5140263138064134366131967129669124511831106LOW3.0120011861161112710821042995926 <t< td=""><td></td><td>HIGH</td><td>5.0</td><td>2290</td><td></td><td>2229</td><td></td><td>2155</td><td></td><td>2047</td><td></td><td>1960</td><td></td><td>1837</td><td>1712</td><td>1584</td></t<>		HIGH	5.0	2290		2229		2155		2047		1960		1837	1712	1584	
LOW3.012904612854612654712354812144911741044904*MS81005C*BBMED4.0185840184740179941174442167444157714931399(MEDIUM)MED-LO3.5159646158747157147155248149350139713261217LOW3.0129157127258126159125759120561116811181060MBD-LO3.5159646158747157147155248149350139713261217LOW3.0129157127258126159125759120561116811181060MBD-LO3.51596469158747154558151359150059141913541271*MS81205D*BAMED4.0157556155857154558151359150059141913541271(MEDIUM)MED-LO3.5140263138064134366131967129669124511831106LOW3.0120011861161112710821042995926GMS81405DNCC </td <td>*MS80805C*BB</td> <td>MED</td> <td>4.0</td> <td>1852</td> <td></td> <td>1820</td> <td></td> <td>1777</td> <td></td> <td>1719</td> <td></td> <td>1641</td> <td>36</td> <td>1567</td> <td>1469</td> <td>1382</td>	*MS80805C*BB	MED	4.0	1852		1820		1777		1719		1641	36	1567	1469	1382	
HIGH 5.0 2323 2225 2120 35 2040 36 1974 38 1801 1688 1577 *MS81005C*BB MED 4.0 1858 40 1847 40 1799 41 1744 42 1674 44 1577 1493 1399 (MEDIUM) MED-LO 3.5 1596 46 1587 47 1571 47 1552 48 1493 50 1397 1326 1217 LOW 3.0 1291 57 1272 58 1261 59 1205 61 1168 1118 1060 *MS81205D*BA MED 4.0 1575 56 1558 57 1545 58 1513 59 1500 59 1419 1354 1271 (MEDIUM) MED-LO 3.5 1402 63 1380 64 1343 66 1319 67 1296 69 1245 1183 1106 (MEDIUM) MED-LO 3.5 1402	(MEDIUM)	MED-LO	3.5	1615	37	1592	37	1556	38	1516	39	1470	40	1405	1346	1235	
*MS81005C*BB MED 4.0 1858 40 1847 40 1799 41 1744 42 1674 44 1577 1493 1399 (MEDIUM) MED-LO 3.5 1596 46 1587 47 1571 47 1552 48 1493 50 1397 1326 1217 LOW 3.0 1291 57 1272 58 1261 59 1257 59 1205 61 1168 1161 1060 *MS81205D*BA HIGH 5.0 2469 2389 1545 58 1513 59 1500 59 1419 142 1624 1431 142 1624 1431 142 1614 1416 1616 1716 1493 1513 59 1500 59 1419 1501 1716 1716 1513 59 1501 59 1419 1501 1101 140 140 140 140 140 140 140 140 140 140 140 140 1		LOW	3.0	1290	46	1285	46	1265	47	1235	48	1214	49	1174	1044	904	
(MEDIUM)MED-LO3.5159646158747157147155248149350139713261217LOW3.0129157127258126159125759120561116811181060*MS81205D*BAMED4.0157556158857154558151359150059141913541271(MEDIUM)MED-LO3.51402631380641343666131967129669124511831106MED3.0120011861161121710821042995926MED3.01207246942238943230045222347121669124511831106(MEDIUM)MED-LO3.51402631380641343666131967129669124511831106GMS81405DNCCMED5.0246942238943230045222347213149202719021786(MEDIUM)MED+LO3.51402157666155867154567151369150069141935012763761(MEDIUM)MED-LO3.51402157666158867154567151		HIGH	5.0	2323		2225		2120	35	2040	36	1974	38	1801	1688	1577	
LOW3.0129157127258126159125759120561116811181060*MS81205D*BAMED5.0246923892300222340213142202719021786*MS81205D*BAMED4.0157556155857154558151359150059141913541271(MEDIUM)MED-LO3.5140263138064134366131967129669124511831106LOW3.0120011861161112710821042995926GMS81405DNCCMED4.0157566155867154567151369150069141913541271(MEDIUM)MED-LO3.5140213801161112710821042995926GMS81405DNCCMED4.0157566155867154369150069141913541271(MEDIUM)MED-LO3.514021380134313191296124511831106(MEDIUM)MED-LO3.5140213801343131912	*MS81005C*BB	MED	4.0	1858	40	1847	40	1799	41	1744	42	1674	44	1577	1493	1399	
HIGH 5.0 2469 2389 2300 2223 40 2131 42 2027 1902 1786 *MS81205D*BA MED 4.0 1575 56 1558 57 1545 58 1513 59 1500 59 1419 1354 1271 (MEDIUM) MED-LO 3.5 1402 63 1380 64 1343 66 1319 67 1296 69 1245 1183 1106 LOW 3.0 1200 1186 1161 1127 1082 1042 995 926 MS81405DNCC MED 4.0 1575 66 1558 67 1545 67 1513 69 1500 69 1245 1183 1106 GMS81405DNCC MED 4.0 1575 66 1558 67 1513 69 1500 69 1419 1354 1271 (MEDIUM) MED 4.0 1575 66 </td <td>(MEDIUM)</td> <td>MED-LO</td> <td>3.5</td> <td>1596</td> <td>46</td> <td>1587</td> <td>47</td> <td>1571</td> <td>47</td> <td>1552</td> <td>48</td> <td>1493</td> <td>50</td> <td>1397</td> <td>1326</td> <td>1217</td>	(MEDIUM)	MED-LO	3.5	1596	46	1587	47	1571	47	1552	48	1493	50	1397	1326	1217	
*MS81205D*BA MED 4.0 1575 56 158 57 1545 58 1513 59 1500 59 1419 1354 1271 (MEDIUM) MED-LO 3.5 1402 63 1380 64 1343 66 1319 67 1296 69 1245 1183 1106 LOW 3.0 1200 1186 1161 1127 1082 1042 995 926 MS81405DNCC MED 5.0 2469 42 2389 43 2300 45 2223 47 2131 49 2027 1902 1786 GMS81405DNCC MED 4.0 1575 66 1558 67 1545 69 1500 69 1419 1354 1271 (MEDIUM) MED-LO 3.5 1402 1340 67 1513 69 1500 69 1419 1354 1271 (MEDIUM) MED-LO 3.5. 1402		LOW	3.0	1291	57	1272	58	1261	59	1257	59	1205	61	1168	1118	1060	
(MEDIUM)MED-LO3.5140263138064134366131967129669124511831106LOW3.0120011861161112710821042995926MIGH5.0246942238943230045222347213149202719021786GMS81405DNCCMED4.0157566155867154567151369150069141913641271(MEDIUM)MED-LO3.514021380134313191296124511831106		HIGH	5.0	2469		2389		2300		2223	40	2131	42	2027	1902	1786	
LOW 3.0 1200 1186 1161 1127 1082 1042 995 926 MIGH 5.0 2469 42 2389 43 2300 45 2223 47 2131 49 2027 1902 1786 GMS81405DNCC MED 4.0 1575 66 1558 67 1545 67 1513 69 1419 1354 1271 (MEDIUM) MED-LO 3.5 1402 1340 1343 1319 1296 1245 1183 1106	*MS81205D*BA	MED	4.0	1575	56	1558	57	1545	58	1513	59	1500	59	1419	1354	1271	
HIGH 5.0 2469 42 2389 43 2300 45 2223 47 2131 49 2027 1902 1786 GMS81405DNCC MED 4.0 1575 66 1558 67 1513 69 1500 69 1419 1354 1271 (MEDIUM) MED-LO 3.5 1402 1340 1319 1296 1245 1183 1106	(MEDIUM)	MED-LO	3.5	1402	63	1380	64	1343	66	1319	67	1296	69	1245	1183	1106	
GMS81405DNCC MED 4.0 1575 66 1558 67 1545 67 1513 69 1500 69 1419 1354 1271 (MEDIUM) MED-LO 3.5 1402 1380 1343 1319 1296 1245 1183 1106		LOW	3.0	1200		1186		1161		1127		1082		1042	995	926	
(MEDIUM) MED-LO 3.5 1402 1380 1343 1319 1296 1245 1183 1106		HIGH	5.0	2469	42	2389	43	2300	45	2223	47	2131	49	2027	1902	1786	
	GMS81405DNCC	MED	4.0	1575	66	1558	67	1545	67	1513	69	1500	69	1419	1354	1271	
LOW 3.0 1200 1186 1161 1127 1082 1042 995 926	(MEDIUM)	MED-LO	3.5	1402		1380		1343		1319		1296		1245	1183	1106	
		LOW	3.0	1200		1186		1161		1127		1082		1042	995	926	

NOTES:

• CFM in chart is without filter(s). Filters do not ship with this furnace, but must be provided by the installer.

All furnaces ship as hig-speed cooling. Installer must adjust blower cooling speed as needed.

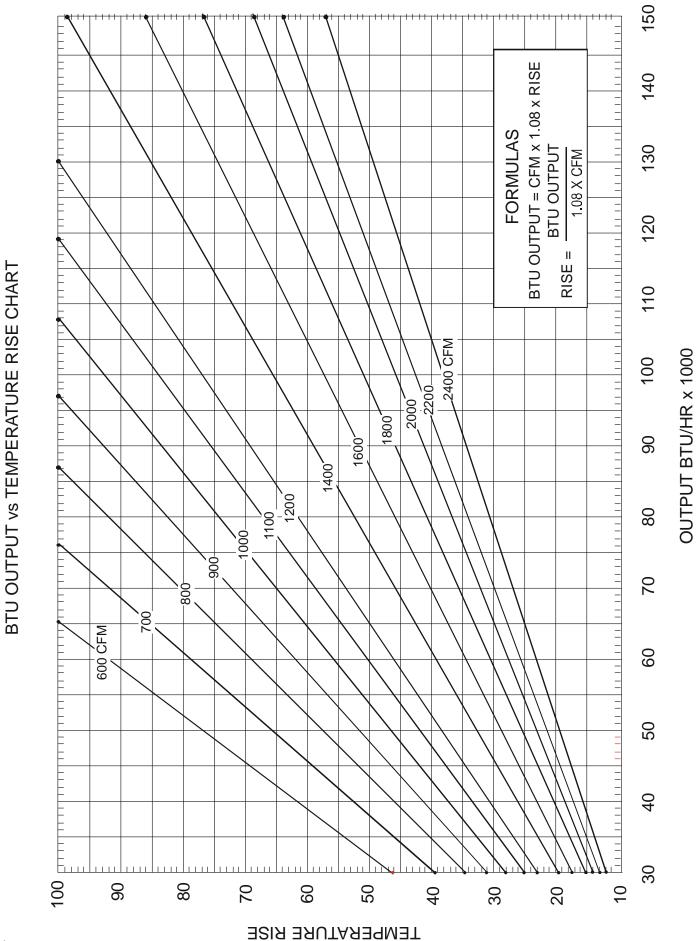
For most jobs, about 400 CFM per ton when cooling is desirable

INSTALLATION IS TO BE ADJUSTED TO OBTAIN TEMPERATURE RISE WITHIN THE RANGE SPECIFIED ON THE RATING PLATE.

• The chart is for information only. For satisfactory operation, external static pressure must not exceed values shown on the rating plate. The shaded area insicated ranges in excess of maximum static pressure allowed when heating.

• The dashed (---) areas indicate a temperature rise not recommended for this model.

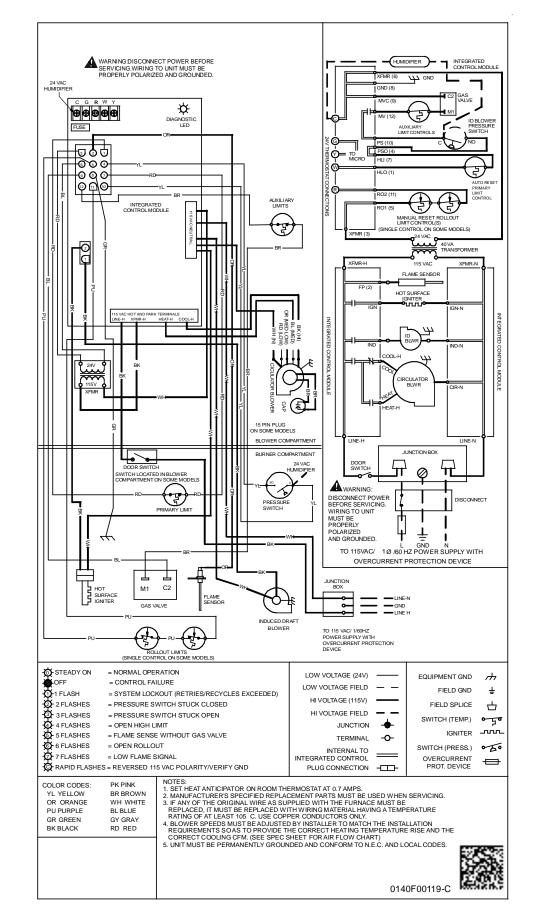
• At higher altitudes, a properly de-rated unit will have approximately the same temperature rise at a particular CFM, while ESP at the CFM will be lower.



BLOWER PERFORMANCE SPECIFICATIONS

WIRING DIAGRAMS

GMS8



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

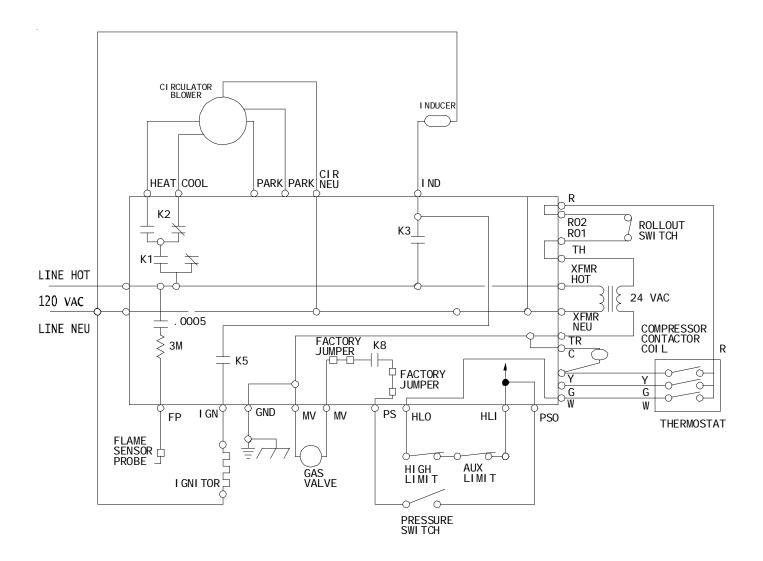
HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

WARNING

SCHEMATICS



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.



TYPICAL SCHEMATIC GMS8 * MODEL FURNACES WR 50T55-289 INTEGRATED IGNITION CONTROL

This schematic is for reference only. Not all wiring is as shown above. Always refer to the appropriate wiring diagram for the unit being serviced.