



MGB / MGC

There are some things you can always depend on...

Gas Fired Hot Water Boiler

Up to 83.9% AFUE

Energy saving features include the electronic ignition system and motorized vent damper to reduce your heating costs.

Exceptional Heat Exchanger Design

Features a dependable cast iron heat exchanger with cast iron push nipple connections. The sections and push nipples expand at the same rate when heated. By using similar materials instead of less expensive gaskets or steel push nipples, the boiler maintains a water tight seal.

Hydrolevel Operating Control

- Features digital display and diagnostics
- Adjusts the water temperature based on your heating system demand which further reduces your heating costs
- Built-in low water cut-off (LWCO) to protect the boiler from potentially dangerous low water conditions

Integral Draft Diverter

- Features factory installed integrated draft hood diverter, which reduces the risk of improper draft hood installation and unsafe CO levels
- Low profile reduces installation height by up to 30" as compared to models with external draft diverter hood

Limited Lifetime Heat Exchanger Warranty

Built by American Craftsmen since 1928



Dimensional Diagram	Model	Input Rate (MBH) ⁽¹⁾	Heating Capacity (MBH) ⁽¹⁾	Net AHRI Rating, Water (MBH) ⁽²⁾	Expansion Tank ⁽³⁾	No. of Burners	AFUE %																																																																			
MGB Front 	MGB-50J	50	42	37	15	1	83.5%																																																																			
	MGB-75J	75	63	55	15	2	83.1%																																																																			
	MGB-100J	100	83	72	30	2	83.0%																																																																			
	MGB-125J	125	104	90	30	3	82.0%																																																																			
	MGB-150J	150	124	108	30	3	83.0%																																																																			
	MGB-170J	170	139	121	30	4	82.0%																																																																			
	MGB-200J	200	165	143	30	4	82.0%																																																																			
	MGC-8D/DP*	262.5/245	220/206	191/179	60	7	83.9%																																																																			
	MGC-9D/DP*	299/280	251/235	218/204	60	8	83.7%																																																																			
	*D=Natural Gas, DP=LP Gas The MGC has distinct input rates for Natural and LP gas versions. 8D/9D rates shown are for Natural gas. 8DP/9DP rates are for LP gas. (1) Input rating for sea level to 2,000 ft. (610m) above sea level. United States, over 2000 ft (610m) above sea level. Reduce input rate 4% for every 1000 ft (304m) above sea level. (2) Net AHRI Water Ratings shown based on piping and pickup allowance of 1.15. Consult manufacturer before selecting boiler for installations having unusual piping and pickup requirements, such as intermittent system operation, extensive piping systems, etc. For forced hot water systems where boiler and all piping within area to be heated, boiler may be selected on basis of its heating capacity. (3) Recommended tank sizes for non-ferrous baseboard or radiant panel systems. Increase size for cast iron baseboard and radiation.																																																																									
General Information (See Installation, Operation and Maintenance Manual for complete instructions)																																																																										
MGB Side 	Clearances (4) Required distances measured from boiler. *Definition of Alcove is three sided space with no wall in front of boiler. ANSI standard for alcove is 18 inches from appliance to leading edge of side walls as shown in IOM.			Combustible Materials (Required) ⁽⁴⁾																																																																						
		Top		MGB	MGC																																																																					
		Control Side		18" (457 mm)	6" (152 mm)																																																																					
		Other Side		9" (229 mm)	7" (178 mm)																																																																					
		Front		3" (76mm)	6" (152 mm)																																																																					
		Rear		Alcove*	18" (457 mm)																																																																					
		Flue Connector		4" (102 mm)	6" (152 mm)																																																																					
		6" (152 mm)	6" (152 mm)																																																																							
Connections (All Models) Return/Supply Water 1-1/4", Gas In 1/2" NPT																																																																										
Electrical 120 Volts AC, 60 hertz, 1 phase, Less than 12 amps (15 amp circuit recommended)																																																																										
Water Content 50 - 2.4 Gallons, 75/100 - 4.0 Gallons, 125/150 - 5.6 Gallons, 170/200 - 7.2 Gallons, 262.5 - 12.7 Gallons, 299 - 14.4 Gallons																																																																										
MGC Front 	Dimensions/Weights	<table border="1"> <thead> <tr> <th>Model</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>MGB-50J</td> <td>11-1/8"</td> <td>4"</td> <td>30-3/4"</td> <td>36-1/4"</td> <td>205 lbs.</td> </tr> <tr> <td>MGB-75J</td> <td>15"</td> <td>5"</td> <td>30-3/4"</td> <td>37-3/4"</td> <td>253 lbs.</td> </tr> <tr> <td>MGB-100J</td> <td>15"</td> <td>6"</td> <td>30-3/4"</td> <td>37-1/4"</td> <td>253 lbs.</td> </tr> <tr> <td>MGB-125J</td> <td>18-7/8"</td> <td>6"</td> <td>30-3/4"</td> <td>37-1/4"</td> <td>315 lbs.</td> </tr> <tr> <td>MGB-150J</td> <td>18-7/8"</td> <td>7"</td> <td>30-3/4"</td> <td>37-3/4"</td> <td>315 lbs.</td> </tr> <tr> <td>MGB-170J</td> <td>22-3/4"</td> <td>7"</td> <td>30-3/4"</td> <td>38-3/4"</td> <td>377 lbs.</td> </tr> <tr> <td>MGB-200J</td> <td>22-3/4"</td> <td>8"</td> <td>30-3/4"</td> <td>38-3/4"</td> <td>377 lbs.</td> </tr> <tr> <th>Model</th> <th>A</th> <th>C</th> <th>D</th> <th>E</th> <th>Weight</th> </tr> <tr> <td>MGC-8D/DP</td> <td>27-1/2"</td> <td>7"</td> <td>36-3/8"</td> <td>41-7/8"</td> <td>552 lbs.</td> </tr> <tr> <td>MGC-9D/DP</td> <td>30-3/4"</td> <td>7"</td> <td>36-3/8"</td> <td>41-7/8"</td> <td>616 lbs.</td> </tr> </tbody> </table>	Model	A	B	C	D	Weight	MGB-50J	11-1/8"	4"	30-3/4"	36-1/4"	205 lbs.	MGB-75J	15"	5"	30-3/4"	37-3/4"	253 lbs.	MGB-100J	15"	6"	30-3/4"	37-1/4"	253 lbs.	MGB-125J	18-7/8"	6"	30-3/4"	37-1/4"	315 lbs.	MGB-150J	18-7/8"	7"	30-3/4"	37-3/4"	315 lbs.	MGB-170J	22-3/4"	7"	30-3/4"	38-3/4"	377 lbs.	MGB-200J	22-3/4"	8"	30-3/4"	38-3/4"	377 lbs.	Model	A	C	D	E	Weight	MGC-8D/DP	27-1/2"	7"	36-3/8"	41-7/8"	552 lbs.	MGC-9D/DP	30-3/4"	7"	36-3/8"	41-7/8"	616 lbs.						
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Standard Equipment Boiler Control Module: Hydrolevel Fuel Smart Control - combination Low Water Cut Off with boiler temperature reset and circulator control. User Display Interface: Digital Temperature Display Heat Exchanger: Cast Iron Sections with Cast Iron Push Nipples. Combustion: Stainless Steel Main Gas Burners (MGB)/Titanium Composite Burners (MGC), Combination 24 Volt Gas Control (Includes: Automatic Gas Valve, Gas Pressure Regulator, Automatic Pilot, Safety Shutoff, Pilot Flow Adjustment, Pilot Filter), Intermittent Pilot Control, Continuous Retry, Combination Pilot Burner/Electrode/Flame Sensor. Safety: Spill Switch and Roll-Out Switch for safety, Automatic Vent Damper. Other: Insulated Boiler Jacket, Integral Draft Diverter, Combination Temperature/Pressure Gauge, 3/4" Drain Valve, 30lb. ASME Relief Valve. MAWP Maximum Allowable Working Pressure 100 psi (MGB) & 50 psi (MGC).																																																																										
Options Available in both natural gas or propane models. Central Heating Pump (Taco, Grundfos, B&G or Less Pump), LP Conversion Kit, Combustible Floor Plate, Fill-Trol.																																																																										
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