



# POWERMITE® GAS BOOSTER WATER HEATERS

Models PMG-60, PMG-100, PMG-200

The Hatco Powermite Gas Booster Water Heater provides 180°F (82°C) sanitizing hot water and long life dependability. Designed to fit under the dishtable, near the dishwasher, minimizes the heat loss that can occur when heaters are installed in a remote location.

## FLEXIBILITY

All models can operate on either natural or propane gas and feature a burner system that utilizes both primary and secondary air for consistent ignition.

**PMG-60...** for single tank, door-type machines. It has 58,000 BTU heating capacity with a storage capacity of 3.2 gallons (12 liters) and has an output equivalent to approximately 13.5kW. This unit can naturally and safely vent directly into the room. Consult local codes for venting requirements. The PMG-60 can increase the temperature of 135 gallons/hour (511 liter/hr) by 40°F (22°C).

**PMG-100...** for 2-tank, conveyor machines. It has 105,000 BTU heating capacity with a storage capacity of 5 gallons (19 liters) and has an output equivalent to approximately 24kW. The PMG-100 can increase the temperature of 241 gallons/hour (912 liter/hr) by 40°F (22°C).

**PMG-200...** for large, conveyor-type dishwashing operations. This 195,000 BTU gas booster water heater has an output equivalent to approximately 45kW and has a 5 gallon (19 liter) storage capacity. The PMG-200 can increase the temperature of 452 gallons/hour (1711 liter/hr) by 40°F (22°C).

Models PMG-100 and -200 use a forced draft system with a 4" (102 mm) diameter adapter provided to allow the installer to hook up the exhaust venting to meet regulatory and local codes.

## QUALITY

The following features assure the best performance for years to come:

- Stainless steel tanks.
- Stainless steel front and top, with powdercoat sides and back (stainless steel body available).
- Finned tube copper heat exchanger.
- Spark to light with standing pilot.
- Eight blade type burners in the PMG-60, three tube type burners in the PMG-100, six tube type burners in the PMG-200.
- Temperature/pressure relief valve.
- Pressure reducing valve.
- Two temperature/pressure gauges.
- Low-water cut-off.
- Blended phosphate water treatment system.
- Shock absorber.



Model PMG-60 with optional Stainless Steel Body and Base and PMGH-60 Exhaust Hood



Model PMG-100



Model PMG-200

## BOOSTER SIZING

Water Temperature Recovery Table in GPH (LPH) and °F (°C)

Model	Input MBH (1,000 BTU/HR)	Temperature Rise				
		30° (16°)	40° (22°)	50° (28°)	60° (30°)	70° (39°)
PMG-60	58	181 ( 685)	135 ( 511)	108 ( 409)	90 ( 341)	77 (292)
PMG-100	105	321 (1215)	241 ( 912)	193 ( 731)	161 ( 610)	138 (522)
PMG-200	195	602 (2279)	452 (1711)	361 (1367)	301 (1139)	258 (977)

**Note:** Installations above 2,000 ft. (610 m) will reduce the above capacities and may require orifice changes to meet IAS safety compliance. Consult "Installation and Operating Manual" for sizing adjustments and orifice changes.

## WATER QUALITY REQUIREMENTS

Incoming water in excess of 3.0 grains of hardness per gallon (GPG) (.75 grains of hardness per liter) must be treated and softened before being supplied to booster heater(s). Water containing over 3.0 GPG (.75 GPL) will decrease the efficiency and reduce the operating life of the unit.

**Note:** Product failure caused by liming or sediment buildup is not covered under warranty.

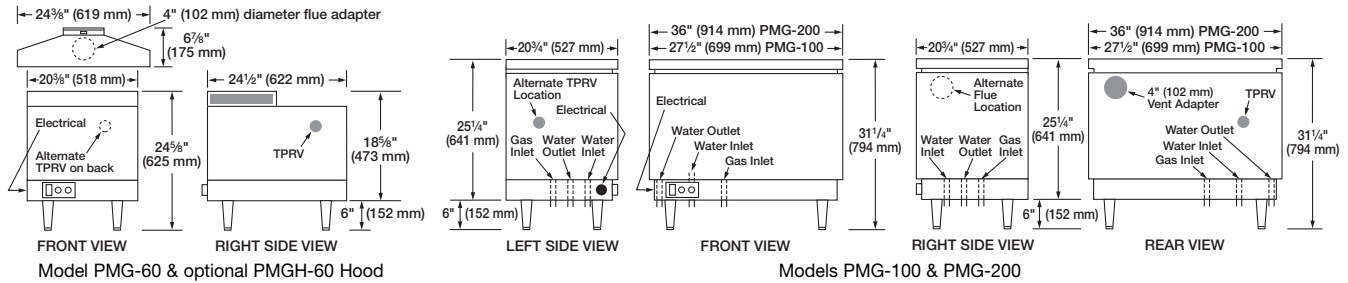


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## SPECIFICATIONS

### Capacity

PMG-60	Input 58,000 BTUs/Hour. Output – 46,000 = 13.4kW
PMG-100	Input 105,000 BTUs/Hour. Output – 84,800 = 24.8kW
PMG-200	Input 195,000 BTUs/Hour. Output – 156,000 = 45.7kW

### Fuel

All Models	Natural or Propane Gas
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### Electrical

PMG-60	120 VAC, 210 watt, 1.75 amps.
PMGH-60	120 VAC, 18 watt, 0.15 amps.
PMG-100/200	120 VAC, 360 watt, 3.00 amps.

### Connections

PMG-60	Gas – 1/2" NPT, Water – 3/4" NPT, Electric – 120 VAC, 15 amp.
PMG-100/200	Gas – 3/4" NPT, Water – 3/4" NPT, Electric – 120 VAC, 15 amp.

### Fluing

PMG-60	Direct – combustion air enters bottom, flue gasses exit sides at top of unit.
PMG-100/200	Direct – combustion air enters bottom, flue gasses exit right side or back at top of unit. 4" (102 mm) flue round.

### Operating Water Pressure

All Models	150 PSI max. Relief valve set at 150 PSI, 210°F (99°C)
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### Shipping Weight

PMG-60	130 lbs. (59 kg) dry.
PMG-100	180 lbs. (82 kg) dry.
PMG-200	215 lbs. (98 kg) dry.

### OPTIONS (NOT FOR RETROFIT)

- Stainless Steel Body, Base, and Sides
- Pressure Reducing Valves (Brass or Iron)
- 6"-7" (152-178 mm) Adjustable Stainless Steel Legs (4)
- Floor Mounting Hardware
- Security Package

### PRODUCT SPECS

#### Gas Booster Water Heater

The Gas Booster Water Heater to supply the final 180°F (82°C) rinse for the dishwasher shall be a Hatco Powermite® Model ...., as manufactured for commercial use by the Hatco Corporation, Milwaukee, WI 53234 U.S.A.

The booster shall have the capacity to heat ....gph (lph) from 110°F to 180°F (43°C to 82°C) and it shall be rated at ....btu, 120 volts, single phase. The stainless steel tank shall be designed for a working pressure of 150 psi (1034 kPa) and hydrostatically tested at 300 psi (2069 kPa).

The heater shall be complete with all internal plumbing, including 3/4" NPT pipe and fittings from inlet and outlet. All controls shall

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## DIMENSIONS

PMG-60: 20<sup>3</sup>/<sub>8</sub>"W x 24<sup>1</sup>/<sub>2</sub>"D x 24<sup>5</sup>/<sub>8</sub>"H\* (518 x 622 x 625 mm).  
 PMG-100: 27<sup>1</sup>/<sub>2</sub>"W x 20<sup>3</sup>/<sub>4</sub>"D x 31<sup>1</sup>/<sub>4</sub>"H\* (699 x 527 x 794 mm).  
 PMG-200: 36"W x 20<sup>3</sup>/<sub>8</sub>"D x 31<sup>1</sup>/<sub>4</sub>"H\* (914 x 527 x 794 mm).  
 PMGH-60 Hood: 24<sup>3</sup>/<sub>8</sub>"W x 13<sup>3</sup>/<sub>8</sub>"D+ x 6<sup>7</sup>/<sub>8</sub>"H\* (619 x 340 x 175 mm).  
 \* Height includes 6" (152 mm) legs.  
 + Add 4" (102 mm) for flue adapter.  
 • Adds 4" (102 mm) to width and 5<sup>7</sup>/<sub>8</sub>" (149 mm) to height of PMG-60.

### Gas Inlet Pressure

Gas Type	Water Column	
	Minimum	Maximum
Natural	5.0" (127 mm)	10.5" (267 mm)
Propane/LP	11.0" (279 mm)	13.0" (330 mm)

### Operating Pressure Specifications at Manifold

Gas Type	Water Column At Pressure Tap	
	High Burn	
Natural	3.5" ( 89 mm)	
Propane/LP	10.0" (254 mm)	

### Vent<sup>^</sup>

PMGH-60	4" (102 mm) diameter vent pipe adapter
PMG-100/200	Forced draft system with 4" (102 mm) diameter vent pipe adapter.

<sup>^</sup> Before installing any method of venting you should contact the local code authority or your gas supplier to make sure that the final installation will be acceptable to the authorities who have jurisdiction.

The proper method of venting a power vented gas appliance is too complicated to cover in this specification sheet and is explained in detail in the National Fuel Gas Code. Before installing the venting system, the person or agency making the installation must be familiar and experienced with the guidelines of the National Fuel Gas Code.

**ALL INSTALLATIONS MUST BE MADE BY A QUALIFIED INSTALLER IN ACCORDANCE WITH THE NATIONAL FUEL GAS CODE OR LOCAL CODES.**

### ACCESSORIES

- Exhaust Hood PMGH-60 (For PMG-60 only)
- High Altitude Orifice Kit

be built-in, and carry safety approval in accordance with ANSI 21.10.3. Sanitary approval shall be in accordance with NSF Standard 5. Proper surface mounting circuit breaker or fused disconnect switch shall be provided by electrical contractor.

The gas fired heating system shall be controlled by close tolerance immersion thermostats. The booster shall be protected with high temperature limit switch (ECO) and low water cut-off.

The heater shall consist of stainless steel front, top, and stainless steel adjustable legs or stainless steel front and silver-gray hammertone sides and back with standard 6" (152 mm) legs.

The heater shall include a temperature/pressure relief valve, high-temperature limit, pressure reducing valve with bypass, indicating temperature/pressure gauge, shock absorber, and blended phosphate water treatment system.