

Job _____

Item No _____

PowerMax125™ Gas Booster Heater

Model: **PM125N™** or **PM125L™**

Temperature Rise	40° Rise	50° Rise	60° Rise	70° Rise	140° Rise
Gallons per Minute	5.40	4.38	3.44	3.10	7.5 gpm for 15 sec. out of every 75 sec.
Gallons per Hour	325	262	206	188	

COMING SOON

FEATURES AND BENEFITS

- Single point water, gas and electrical connections
- Factory-provided pressure and temperature relief valve
- Space saving design installs below dishtables
- Can be installed in a remote location up to 150 feet from the scullery
- All waterways constructed of stainless steel, copper and brass for corrosion protection and clean operation
- Simple, easy maintenance through front panel
- All stainless steel cabinet and frame
- Instant 185°F water provided consistently to dishwasher rinse cycle
- Welded stainless steel accumulator (limited lifetime warranty) maintains rinse water at 185°F
- Woven Ceramic Fiber Infrared Power Burner

- Radial solid copper fin-tube heat exchanger for 360° heat transfer
- Burners activated by water flow & temperature
- Advanced microprocessor controls
- Natural Gas or Liquid Propane 125,000 BTUH

ACCESSORIES AND OPTIONS

(available at extra cost)

- EZ-Vent Kit for Venting through dishwasher ventilation system
- Factory Authorized StartUp-(highly recommended)
- Re-circulating kit
 - ¾;1” for remote installations and/or single tank hot water coil tank heat (also requires a CT-1 module)
 - 1-¼” for long distance remote installations and/or 2 tank hot water coil tank heat and/or 2 dishwasher rinse service (also requires CT-2 module)
- Wall Mount Kit
- Water Hammer Arrester
- Water Pressure Gauge
- Water Pressure/Temperature Gauge
- Water pressure reducing valve (if water supply pressure exceeds 80psi)
- Low Pressure water pressure reducing valve (for dishwasher rinse)
- Auxiliary PowerVent required for extended flue lengths. Call factory
- EZ Install Kit
- Seismic Legs



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PowerMax125™ – High Output Gas Booster Heater

Model: **PM125N™** or **PM125L™**

COMING SOON

Model Number	BtuH per burner Natural or Propane	Gas Connection	Water Supply	Electrical Connection	Gas Pressure Regulators	Shipping Weight
PM125™	125,000	3/4" NPT	1" NPT	120V 1ph 6.2 amps	One each Supplied	lbs

Natural Gas Pressure WC @ Inlet		LP Gas Pressure WC @ Inlet		Manifold Pressure WC		Water Pressure (Flow)		Dishwasher Rinse Re-circulating Loop	Clearance From Combustible Surface			Vent Per Local Code
Min	Max	Min	Max	Nat	LP	Min	Max	3/4" or 1" NPT*	Side	Top	Rear	Auxiliary Power Vent Required for extended flue lengths Call factory
7"	10.5"	10"	14"	3.5"	7.5"	40 psi	80 psi	Required if outlet is more than 5 feet from rinse valve of dishwasher	6" L 1" R	1"	6"***	

Temperature Rise	40°F	50°F	60°F	70°F	140°F
Gallons Per Minute	5.40	4.38	3.44	3.10	7.5 gpm for 15 sec. out of every 75 sec.
Gallons Per Hour	325	262	206	188	

*Contact factory if booster will be supplying dishwasher fill valves or tank heat.

**1" from back of exhaust vent

Note: May be vented through the dishwasher canopy or pant-leg exhaust system per 1991 Uniform Mechanical Code Sec 916. & 917. Check with local authority



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PowerMax125™ Gas Booster Heater specification

Booster heater shall be a PowerMax125™ gas booster water heater, Model PM125™ as manufactured by Vanguard Technology Inc., Eugene, OR 97402. Booster to be fired by a 125,000 Btu infrared power burner, using natural gas or liquid propane fuel, with a woven ceramic fabric burner. Burner to be ignited by means of a hot surface igniter and a redundant intermittent pilot light. Heat exchanger to be of heavy duty finned copper tubing and carry a 5 year limited warranty. Standard equipment to include gas pressure regulating valve, internal bronze-stainless re-circulation pump, integrated solid state power control, temperature and pressure relief valve and LED temperature display. Booster frame, body panels, accumulator tank, and flue collar shall be of all stainless steel construction. Unit shall stand on 6 inch adjustable stainless or composite NSF approved legs. The 4.8 gallon accumulator tank shall carry a limited lifetime warranty. Stainless steel front panel to be removable for access to all components without disconnecting booster from its installed location. Booster to be rated at 88% operating efficiency, minimum. The PM125™ can be installed up to 150 feet from the dishwasher rinse valve when equipped with a Vanguard circulation kit. The circulation loop shall be 3/4" to 1 1/2" copper (see manual), insulated to a value of R-4. Loop to be furnished and installed by others.

Vanguard's PowerMax200 versus Hatco's PowerMite200

Vanguard PowerMax200

Hatco PowerMite200

(PowerMight200, PowerMaybe200)

Burner Type	90% efficient, woven ceramic fiber, infrared pre-mix tubular burner	75%-80% efficient. Standard in-shot burner with plastic exhaust fan over heat exchanger
Ignition System	Solid state with reliable hot surface igniter	Electric spark to light pilot to light burner. Inconsistent ignition often caused by erratic spark
Heater Exchanger	Double coiled, solid copper fin-tube, 360 ⁰ heat exchanger for efficient heat removal and durability. 5 year warranty; 15-25 year life expectancy	Flat single-row soldered, thin-wall serpentine copper with short radius 180 ⁰ turns at each end. Twelve month warranty.
Pump	Very reliable, High-efficiency 1/6 HP S.S. Bronze pump. Temperature controlled	Small, low cost plastic impeller pump has low flow and short service life. Operates continuously
Storage Tank	Patented S.S. accumulator tank holds 4.8 gallons of 190 ⁰ F water for instant delivery. Limited <u>Lifetime</u> warranty	5 gallon tank, Sensitive to supply water temperature fluctuations, 1 year warranty, with additional 9 years <u>prorated</u> .
Weight	415#	190#
Construction	Heavy-duty welded S.S. frame, body and tank, 6" NSF legs	Painted sheet metal body and frame. S.S. front panel. Extra Cost S.S. for body, base and legs
Serviceability	<u>All</u> service done from the front without disconnecting plumbing/electrical. All parts can be replaced without major disassembly. Can be installed under dish table and vented thru D/W hood or located up to 150' away from D/W. Extremely robust design.	Service from front, side, and top,. Many service procedures require removal of unit and major disassembly. Remote installations not recommended by manufacturer. Must be vented to exterior per building/mechanical code.
Performance	Can supply 300+ GPH rinse water for a standard 44" rack conveyor dish machine @ 70 ⁰ boost. High speed recovery can provide all 180 ⁰ D/W rinse water and all 125 ⁰ DHW for door-type dishwasher and kitchen	<u>Cannot</u> supply 300 GPH of 180 ⁰ rinse water @ 70 ⁰ boost. Mfr. recommends TWO of their boosters for this output. Low recovery means low performance
Warranty	Lifetime Limited warranty on S.S. Accumulator tank, 5 yr limited warranty on heat exchanger. Life expectancy of heat exchanger is 15-25 years. 1 yr limited warranty on all other parts	1 year parts and labor with additional 9 years, <u>pro-rated at retail</u> on tank only