

Job _____

Item No _____

PowerMax400™ Gas Booster Heater

Model: **PM400N™** or **PM400L™**

| Temperature Rise | 40° Rise | 50° Rise | 60° Rise | 70° Rise | 140° Rise |
|--------------------|----------|----------|----------|----------|-----------|
| Gallons per Minute | 17.4 | 14 | 11 | 10 | 5 |
| Gallons per Hour | 1040 | 840 | 660 | 600 | 300 |



FEATURES AND BENEFITS

- Single point water, gas and electrical connections
- Factory-provided pressure and temperature relief valve
- 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



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- Burners activated by water flow & temperature
- Advanced microprocessor controls
- Natural Gas or Liquid Propane 199,990 BTUH per burner
- Can provide 100% of hot water requirement for many restaurants

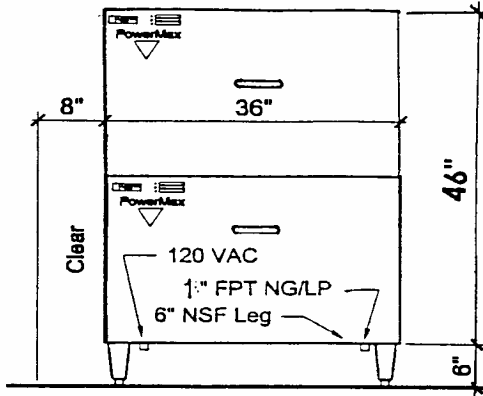
ACCESSORIES AND OPTIONS

(available at extra cost)

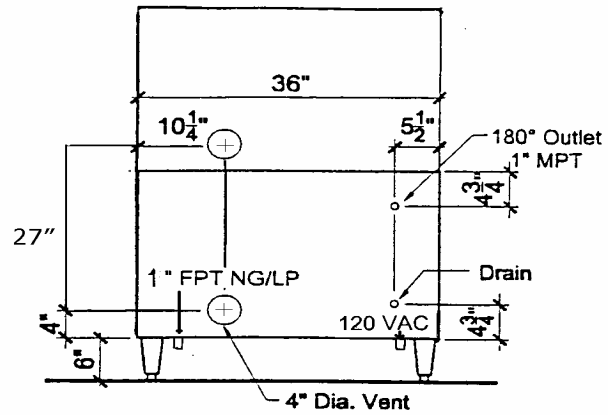
- EZ-Vent Kit for Venting through dishwasher ventilation system
- Factory Authorized StartUp-(highly recommended)
- Re-circulating
 - ¾;1" for remote installations and/or single tank hot water coil tank heat (also requires a CT-1 module)
 - 1-¼" for long distance remote installations and/or 2 tank hot water coil tank heat and/or 2 dishwasher rinse service (also requires CT-2 module)
- 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

PowerMax400™ – High Output Gas Booster Heater

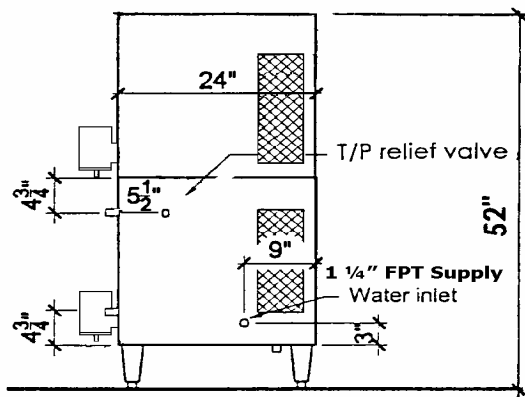
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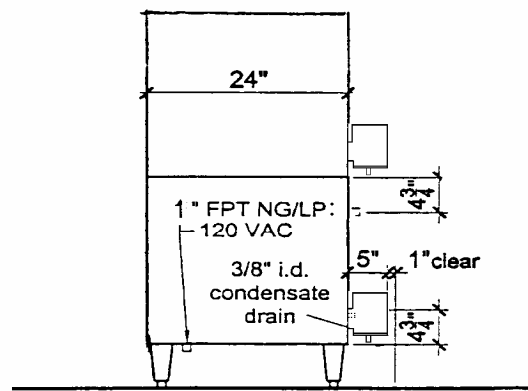
Front Elevation



Rear Elevation



Left Elevation



Right Elevation

| Model Number | BtuH per burner Natural or Propane | Gas Connection | Water Supply | Electrical Connection | Gas Pressure Regulators | Shipping Weight |
|--------------|---------------------------------------|-------------------|-----------------|--------------------------|----------------------------|--------------------|
| PM400™ | 2 @ 199,990 | 1" NPT | 1 1/4" NPT | 120V 1ph 12.4 amps | Two Supplied | 875 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 Auxiliary Power Vent Required for extended flue lengths Call factory |
|---------------------------------------|-------|----------------------------------|-----|----------------------------|------|-----------------------------|-----------|--|--|-----|-------|---|
| Min | Max | Min | Max | Nat | LP | Min | Max | 3/4", 1" or 1 1/4" NPT * | Side | Top | Rear | |
| 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 | 17.4 | 14 | 11 | 10 | 5 |
| Gallons Per Hour | 1040 | 840 | 660 | 600 | 300 |

*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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PowerMax400™ Gas Booster Heater specification

Booster heater shall be a PowerMax400™ gas booster water heater, Model PM400™ as manufactured by Vanguard Technology Inc., Eugene, OR 97402. Booster to be fired by two 199,990 Btu infrared power burners, using natural gas or liquid propane fuel, with woven ceramic fabric burner. Burners to be ignited by means of a hot surface igniter and a redundant intermittent pilot light. Heat exchangers 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 pumps, integrated solid state power controls, temperature and pressure relief valves and LED temperature displays. Booster frame, body panels, accumulator tank, and flue collars 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 PM400™ 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.