VERTEX™ 90% THERMAL EFFICIENCY
VERSATILE POWER VENT DESIGN

Today’s homes demand more hot water than ever before, and the 90% efficient Vertex™ power vent gas water heater offers unprecedented levels of performance to meet the need. The 50-gallon Vertex delivers more hot water than a standard 75-gallon atmospheric gas water heater. In fact, the fully condensing Vertex design is so advanced, it can deliver “continuous hot water for shower after shower” at a constant flow of over 3 gallons per minute. Yet Vertex is easy to install, with height, diameter and installation requirements similar to standard power vent units.

HELICAL INTERNAL HEAT EXCHANGER
• Spiral heat exchanger keeps hot combustion gases in the tank longer to lengthen the heat transfer cycle
• Positioned in the center of the tank for more even heat distribution
• Operates at 90% thermal efficiency, which saves money on operating costs compared to a standard 78% efficient gas water heater

POWER VENT DESIGN
• Combined vertical and horizontal runs terminating through an outside wall. Vents using PVC, CPVC, or polypropylene pipe. Canadian installations require ULC S636 approved pipe for venting.
  • 2” pipe, vents up to 25 equivalent feet
  • 3” pipe, vents up to 65 equivalent feet
  • 4” pipe, vents up to 128 equivalent feet

MODULAR BLOWER
• Equipped with 120 volt, 60 Hz electrical system (rating 5 amps or less), 6-foot cord with standard 3-prong connector
• 2” PVC pipe, elbows and condensate drain supplied to connect heat exchanger outlet to blower

SIDE-MOUNTED HOT AND COLD RECIRCULATING TAPS
• Allows Vertex to be installed as part of combination space heating/water heating applications or any system requiring a recirculating hot water loop, including radiant floor heating

INTELLI-VENT™ GAS CONTROL
• Equipped with a robust silicon nitride hot surface ignitor — no standing pilot
• Advanced electronics for more precise control of water temperature and easy to understand system diagnostics

BLUE DIAMOND® GLASS COATING

TWO HEAVY-DUTY ANODE RODS
• Provide maximum protection against corrosion

GREEN CHOICE® GAS BURNER
• Patented eco-friendly burner design reduces NOx emissions by up to 33% and complies with Low-NOx emission requirements of less than 40 ng/J.

CSA CERTIFIED AND ASME RATED T&P RELIEF VALVE

MAXIMUM HYDROSTATIC WORKING PRESSURE: 150 PSI

CODE COMPLIANCE
• Meets UBC, CEC and ICC National Codes.
• Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IES 90.1.

DESIGN-CERTIFIED BY
UNDERWRITERS LABORATORIES
• Certified at 300 psi test pressure and 150 psi working pressure. Listed according to ANSI Z21.10.3 - CSA 4.3 standards governing storage tank-type water heaters.

6-YEAR LIMITED TANK AND PARTS WARRANTY
• For complete information, consult written warranty or go to hotwater.com

* Continuous hot water based on 3.07 GPM continuous flow with a 65°F inlet water temperature, 110°F outlet temperature, and a unit installed per the manufacturer’s instructions.
** Intellivent™ is a trademark of Emerson Electric Company
Available in natural gas only.
Top inlet and outlet connections: \( \frac{3}{4} \)" male NPT.
Circulation loop connections: \( \frac{3}{8} \)" female NPT.
Standard model certified for sea level to 5,300 ft. elevation. Order SMR K30 for elevations to 10,100 ft.
Optional Condensate Neutralizer Kit available (Part Number 9007959005).

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Gallon Capacity</th>
<th>Recovery @ 90°F Rise Gallon Per Hour</th>
<th>BTU Input Per Hour</th>
<th>Dimensions in Inches</th>
<th>Approx. Shipping Weight (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPHE-50</td>
<td>50</td>
<td>92</td>
<td>76,000</td>
<td>71-1/8</td>
<td>68-5/8</td>
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</tbody>
</table>

*Install in accordance with local codes