Residential PDX4 Power Direct Vent
High EF Energy Saver Gas Water Heater

The PDX4 FVIR Defender Safety System® Models Feature:

■ ENERGY STAR® Qualified—These models qualify for the September 1st, 2010 minimum ENERGY STAR® EF requirement, as well as most utility rebate programs.

■ Bradford White ICON System™—Intelligent gas control with spark to pilot ignition system eliminates the constant burning pilot. This results in savings of pilot gas during stand by periods (120 V.A.C.).
  – Enhanced Performance—Proprietary algorithms provide enhanced First Hour Delivery ratings and tighter temperature differentials.
  – Advanced Temperature Control System—Microprocessor constantly monitors and controls burner operation to maintain consistent and accurate water temperature levels.
  – Intelligent Diagnostics—An exclusive green LED light prompts the installer during start-up and provides ten different diagnostic codes to assist in troubleshooting.
  – Separate Immersed Thermowell—High strength advanced polymer composite thermowell provides isolation between electric temperature sensor and surrounding water. No need to drain the tank when removing gas valve.

■ Compatible With Optional Accessory Packages—Performance Package, Protection Package and Inlet Shut-Off Valve.

■ Closed Combustion Venting System—Power Direct Vent models are ideal for installations which lack sufficient area for combustion, such as new construction homes or additions which are tightly insulated. These models use a twin pipe system where combustion air is drawn from outside the building in one pipe, and combustion products are expelled to the outside in another pipe.

■ Cast Aluminum Air Intake Boot—A cast molded air intake boot design provides exceptional durability during installation and operation.

■ Horizontal and Vertical Venting—with 2" or 3" PVC, ABS, or CPVC. The equivalent feet of intake venting cannot be greater than the equivalent feet of exhaust venting.

■ Optional Concentric Vent Kit Termination—2" termination fitting provides for only one exit opening through a wall or roof. (Subtract 10ft. for intake pipe and 10ft. for exhaust pipe when calculating total vent length.)

■ Flammable Vapor Sensor—Electronic sensor prevents burner operation if flammable vapors are detected. The sensor will also prevent burner operation if there is an ongoing flammable vapor burn inside the combustion chamber.

■ Factory Installed Hydrojet® Total Performance System—Cold water inlet sediment reducing device helps prevent sediment build up in tank. Increases first hour delivery of hot water while minimizing temperature build up in tank.

■ Vitraglas® Lining—Bradford White tanks are lined with an exclusively engineered enamel formula that provides superior tank protection from the highly corrosive effects of hot water. This formula (Vitraglas®) is fused to the steel surface by firing at a temperature of over 1600°F (871°C).

■ 2" Non-CFC Foam Insulation—Surrounds the tank surface, saving energy by retarding loss of heat.

■ Water Connections—3/4" NPT factory installed true dielectric fittings extend water heater life and makes installation easier.

■ Factory Installed Heat Traps—Design incorporates a flexible disk that reduces heat loss in piping and eliminates the potential for noise generation.

■ Protective Magnesium Anode Rod—Provides added protection against corrosion for long trouble-free service.

■ T&P Relief Valve—Included.

■ Low Restriction Brass Drain Valve—Durable tamper proof design.

6 or 10-Year Limited Tank Warranties / 6 or 10-Year Limited Warranty on Component Parts.

For products installed in USA, Canada and Puerto Rico. Some states do not allow limitations on warranties. See complete copy of the warranty included with the heater.
**Power Direct Vent Gas Water Heater**

**PDX4 Energy Saver Models**

**NATURAL GAS AND LIQUID PROPANE GAS**

Meet or exceed ASHRAE 90.1b (current standard) C.E.C. Listed 78% Recovery Efficiency

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Capacity</th>
<th>Recovery at 90°F Rise*</th>
<th>A Floor to Exhaust Outlet</th>
<th>B Jacket Dia.</th>
<th>C Vent Size</th>
<th>D Floor to Top of Heater</th>
<th>E Floor to Top of Air Intake</th>
<th>F Floor to Gas Conn.</th>
<th>H Floor to Water Conn.</th>
<th>J Depth</th>
<th>K Depth</th>
<th>Approx. Shipping Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDX4-40S6FBN</td>
<td>40 33</td>
<td>40.000 38.000</td>
<td>43 36 41 34</td>
<td>59 22 2</td>
<td>2 2 2</td>
<td>14 49 55/8 59/8</td>
<td>50 561/4 51 33/4</td>
<td>154</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>PDX4-50S6FBN</td>
<td>50 42</td>
<td>40.000 38.000</td>
<td>43 36 41 34</td>
<td>60 24 2</td>
<td>2 2 2</td>
<td>14 50 561/4 51 33/4</td>
<td>185</td>
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</tbody>
</table>

Propane models feature a Titanium Stabilized Stainless Steel propane burner. For Propane (LP) models change suffix “BN” to “SX”.

*Based on manufacturers rated recovery efficiency.

110 V.A.C Required for Power Venting / 110 V.A.C., 60HZ, 3.1 Amperes.

For 10 year model, change suffix “6” to “10”.

Meets NAECA Requirements

General

All gas water heaters are certified at 300 PSI test pressure (2068 kPa) and 150 PSI working pressure (1034 kPa). All water connections are 3/4” NPT (19mm) on 8” (203mm) centers. All gas connections are 1/2” (13mm).

All models design certified by CSA International (formerly AGA/CGA), to meet ANSI standard Z-21.10.1 and peak performance rated.

Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement.

Suitable for Water (Potable) Heating and Space Heating.

Toxic chemicals, such as those used for boiler treatment, shall NEVER be introduced into this system. This unit may NEVER be connected to any existing heating system or component(s) previously used with a non-potable water heating appliance.

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**2” Vent Pipe**

<table>
<thead>
<tr>
<th>P/N 239-44069-02</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Intake Length 35 ft.</td>
</tr>
<tr>
<td>Max. Exhaust Length 25 ft.</td>
</tr>
<tr>
<td>Min. Vent Length 7 ft.</td>
</tr>
<tr>
<td>Number 1 30 ft.</td>
</tr>
<tr>
<td>of 2 25 ft.</td>
</tr>
<tr>
<td>90° Elbows 3 20 ft.</td>
</tr>
</tbody>
</table>

**3” Vent Pipe**

<table>
<thead>
<tr>
<th>P/N 239-44069-02</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Intake Length 35 ft.</td>
</tr>
<tr>
<td>Max. Exhaust Length 85 ft.</td>
</tr>
<tr>
<td>Min. Vent Length 7 ft.</td>
</tr>
<tr>
<td>Number 1 80 ft.</td>
</tr>
<tr>
<td>of 2 75 ft.</td>
</tr>
<tr>
<td>90° Elbows 3 70 ft.</td>
</tr>
</tbody>
</table>

Subtract 5ft. for each additional 90° elbow.

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Bradford White Water Heaters

Ambler, PA

For U.S. and Canada field service, contact your professional installer or local Bradford White sales representative.

Sales 800-532-2931 • Fax 215-641-1670 / Technical Support 800-334-3393 • Fax 269-795-1089 • Warranty 800-531-2111 • Fax 269-795-1089


Bradford White • CANADA INC. Sales / Technical Support 866-690-0961 / 905-238-0100 • Fax 905-238-0105 / www.bradfordwhite.com

Built to be the Best™

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