Residential High Input Direct Vent Energy Saver Gas Water Heater

The Direct Vent FVIR Defender Safety System® Models Feature:

- **Closed Combustion**—All air for combustion is taken directly from the outside. The co-axial vent pipe (pipe inside a pipe) draws combustion air in through the outer pipe (6"), and exhausts the products of combustion through the inner pipe (4"). The co-axial vent pipe at the top of the unit can be rotated for venting flexibility.

- **Piezo Igniter**—Easy and quick lighting of the pilot burner by push button.

- **Reinforced Seals**—Seals surround the closed combustion chamber and the FVIR inner door, preventing the ignition of Flammable Vapors outside of the water heater.

- **Maintenance Free**—The vent piping and the closed combustion chamber with reinforced seals does not require regular cleaning under normal operating conditions.

- **Sight Window**—Offers a view into the combustion chamber to observe the operation of the pilot and burner.

- **No Electrical Power Necessary.**

- **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 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.

- **Fully Automatic Controls**—Built-in energy cut-off switch prevents abnormally high water temperature. Built-in gas pressure regulation.

- **Cast Aluminum Air Intake Boot**—A cast molded air intake boot provides exceptional installation durability.

- **Telescoping Solid Vent Kits**—Multiple kits (see reverse side) allow up to 8ft. vertical and 8ft. horizontal vent lengths (horizontal termination only).

- **Flexible Vent Kit**—The maximum vent length (horizontal and vertical) can be flexed to 100" (horizontal termination only).

- **Side Connections**—3/4" NPT tapping allow easy connections for space heating applications (Potable water only).

- **1" Non-CFC Foam Insulation**—Surrounds the tank surface, saving energy by reducing the amount of heat loss.

- **Pedestal Base.**

- **Water Connections**—3/4" NPT factory installed true dielectric fittings.

- **Factory Installed Heat Traps.**

- **Protective Magnesium Anode Rod.**

- **T&P Relief Valve**—Included.

- **Brass Drain Valve**—Tamper proof design.
## High Input 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 of Specifications

<table>
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<tr>
<th>Model Number</th>
<th>Capacity</th>
<th>Nat. BTU/hr Input</th>
<th>LP BTU/hr Input</th>
<th>Recovery at 90°F Rise</th>
<th>Nat. U.S. Imp. GPH</th>
<th>LP U.S. Imp. GPH</th>
<th>A Floor to Center Line of Vent</th>
<th>B Jacket Dia.</th>
<th>C Vent Size</th>
<th>D Floor to T&amp;P Conn.</th>
<th>E Floor to Gas Conn.</th>
<th>F Floor to Top of Heater</th>
<th>G Floor to Space Heating Outlet</th>
<th>H Floor to Water Conn.</th>
<th>J Floor to Space Heating Inlet</th>
<th>K Depth</th>
<th>Approx. Shipping Weight</th>
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<tbody>
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<td>DH1-50T6BFN</td>
<td>480</td>
<td>50,000</td>
<td>48,000</td>
<td>75°F/5°F</td>
<td>101</td>
<td>91</td>
<td>20</td>
<td>4-6</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>52</td>
<td>52</td>
<td>59</td>
<td>60</td>
<td>16</td>
<td>31/4</td>
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<tr>
<td>DH1-65T6BFN</td>
<td>550</td>
<td>55,000</td>
<td>53,000</td>
<td>78°F/5°F</td>
<td>141</td>
<td>131</td>
<td>22</td>
<td>4-6</td>
<td>15</td>
<td>22</td>
<td>15</td>
<td>56</td>
<td>56</td>
<td>63</td>
<td>60</td>
<td>16</td>
<td>34/4</td>
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<tr>
<td>DH1-75S6BFN</td>
<td>600</td>
<td>60,000</td>
<td>57,000</td>
<td>75°F/5°F</td>
<td>182</td>
<td>172</td>
<td>24</td>
<td>4-6</td>
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<td>63</td>
<td>60</td>
<td>16</td>
<td>35/4</td>
</tr>
</tbody>
</table>

### Optional Telescoping Solid Vent Kits:

- **Kit “F”** Telescopes from 4¼" to 5½" Part No. 243-42516-00
- **Kit “G”** Telescopes from 6¼" to 9¼" Part No. 243-42517-00
- **Kit “H”** Telescopes from 13¼" to 23¼" Part No. 243-42514-00
- **Kit “I”** Telescopes from 49¾" to 95¾" Part No. 243-42512-00

### Meets NAEC Results

**General**
All gas water heaters are certified at 300 PSI test pressure (2068 kPa) and 150 PSI working pressure (1034 kPa). All potable water connections are 3/4" NPT (19mm) on 11" (203mm) centers. All gas connections 1/2" (13mm).

**All models design certified by CSA International (formerly AGA/CGA), ANSI 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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**Ambler, PA**
For U.S. and Canada field service, contact your professional installer or local Bradford White sales representative.

Sales 800-523-2931 • Fax 215-641-1670 / Technical Support 800-334-3393 • Fax 269-795-1089 • Warranty 800-531-2111 • Fax 269-795-1089

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