Residential Atmospheric Vent Gas Water Heater

The Atmospheric Vent FVIR Defender Safety System® Models Feature:

- **Bradford White ICON System**—Intelligent gas control with proven millivolt powered technology and built-in piezo igniter. A standard, off-the-shelf thermopile converts heat energy from the pilot flame into electrical energy to operate the gas valve and microprocessor. No need for external electricity.
  - **Enhanced Performance**—Proprietary algorithms provide enhanced First Hour Rating and tighter temperature differential.
  - **Advanced Temperature Control System**—Microprocessor controls burner operation for consistent and accurate water temperature levels up to 160°F (71°C).
  - **Intelligent Diagnostics**—Exclusive multicolor LED light indicates operation status/service required.

- **Advanced ScreenLok® Technology Flame Arrestor Design**—Flame arrestor is designed to prevent ignition of flammable vapor outside of the water heater.

- **Resettable Thermal Switch**—Proven and reliable bimetallic switch prevents burner and pilot operation in case of ongoing flammable vapors burning inside of the combustion chamber or restricted air flow.

- **Maintenance-Free**—No regular cleaning of air inlet openings or flame arrestor is required under normal conditions.

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

- **Factory-Installed Hydrojet® Total Performance System**—Sediment reducing device that also increases first hour rating of hot water while minimizing temperature build-up in tank.

- **Vitraglas® Lining**—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).

- **Small Diameter Models Available**—for limited space installations.

- **Insulation System**—Non-CFC foam covers the sides and top of the tank, reducing heat loss. This results in less energy consumption, improved efficiencies, and jacket rigidity.

- **Pedestal Base.**

- **Water Connections**—3/4” (19mm) NPT factory installed true dielectric fittings.

- **Factory-Installed Heat Traps.**

- **Protective Magnesium Anode Rod.**

- **3x4 “Snap Lock” Draft Diverter**—Allows either 3” (76mm) or 4” (102mm) vent connections with inputs of 40,000 BTU/Hr. or less. Over 40,000 BTU/Hr. has the 4” (102mm) “Snap Lock” Draft Diverter.

- **T&P Relief Valve**—Installed.

- **Low Restrictive Brass Drain Valve**—Durable tamper proof design.

- **NOx Emissions**—Less than 40 ng/J.

*May vary by region

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

For more information on warranty, please visit www.bradfordwhite.com

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.

### Residential Atmospheric Vent Gas Water Heater

#### Atmospheric Vent Models

**NATURAL GAS AND LIQUID PROPANE GAS**

---

**Meet or exceed ASHRAE 90.1b (current standard) C.E.C. Listed**
**Recovery efficiency ranging up to 80%**

---

#### Model Number / Nominal Gallons / DOE Rated Storage Volume / First Hour Rating / Recovery at 90°F Rise

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Nominal Gallons</th>
<th>DOE Rated Storage Volume</th>
<th>First Hour Rating</th>
<th>Recovery at 90°F Rise</th>
</tr>
</thead>
<tbody>
<tr>
<td>RG130T6N</td>
<td>114</td>
<td>7.9</td>
<td>174</td>
<td>0.54</td>
</tr>
<tr>
<td>RG230T6N</td>
<td>114</td>
<td>7.9</td>
<td>174</td>
<td>0.54</td>
</tr>
<tr>
<td>RG250S6N</td>
<td>114</td>
<td>8.8</td>
<td>186</td>
<td>0.54</td>
</tr>
<tr>
<td>RG140T6N</td>
<td>151</td>
<td>10.0</td>
<td>243</td>
<td>0.59</td>
</tr>
<tr>
<td>RG240S6N</td>
<td>151</td>
<td>11.7</td>
<td>262</td>
<td>0.58</td>
</tr>
<tr>
<td>RG150T6N</td>
<td>151</td>
<td>11.7</td>
<td>262</td>
<td>0.58</td>
</tr>
<tr>
<td>RG250T6N</td>
<td>189</td>
<td>10.0</td>
<td>284</td>
<td>0.63</td>
</tr>
<tr>
<td>RG250L6N</td>
<td>182</td>
<td>11.7</td>
<td>307</td>
<td>0.63</td>
</tr>
<tr>
<td>RG250L6N</td>
<td>182</td>
<td>11.7</td>
<td>307</td>
<td>0.63</td>
</tr>
</tbody>
</table>

---

**Propane models feature a Titanium Stainless Steel propane burner. For Propane (LP) models change suffix “N” to “X”.

For 10 year models, change suffix from “6” to “10”.

Based on manufacturer’s rated recovery efficiency.

Models feature optional top & T&P location and must be specified when ordering.

Note: RG230S6N and RG250L6N do not have top T&P option.

Uniform Energy Factor and First Hour Rating is based on the latest AHRI directory listings.

---

**General:**

Meets NAEC Requirements.

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

All models design-certified by CSA International (formerly AGA/CGA), ANSI standard Z21.10.1 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.

---

For field service, contact your professional installer or local Bradford White sales representative.
Sales 800-523-5291 • Fax 215-641-1612
Technical Support 800-334-3393 • Email techserv@bradfordwhite.com
Warranty 800-531-2111 • Email warranty@bradfordwhite.com
International: Telephone 1-215-641-9400 • Email international@bradfordwhite.com / www.bradfordwhite.com

---

©2020, Bradford White Corporation. All rights reserved.

Printed in U.S.A.

1101-E-0720

---

![Diagram of residential atmospheric vent gas water heater](image-url)