Residential High Input Direct Vent Energy Saver Gas Water Heater

The Direct 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 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.
  - Pilot On Indication—Flashing green LED provides positive indication that pilot is on.
  - 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.

- 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.

- 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.

- 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).

- 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 tappings 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.

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

Photo is of DH1-504T6FBN

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

MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 5,682,666; 7,634,976; 5,660,165; 5,954,492; 6,056,542; 6,935,280; 5,372,185; 5,485,879; 5,574,822; 7,971,560; 7,992,526; 6,684,821; 6,442,178; 7,334,419; 7,866,168; 7,270,087; 7,007,748; 5,986,852; 6,142,216; 7,489,026; 5,341,770; 7,337,517; 7,651,211; 7,660,710; 7,633,132; 7,003,133; 7,559,293; 7,900,589; 5,943,984; 8,082,888; 5,968,117; 7,621,338; 7,850,859; 5,761,378; 7,409,925; 5,377,171; 8,146,772; 7,458,341; 2,262,174. OTHER U.S. AND FOREIGN PATENT APPLICATIONS PENDING. CURRENT CANADIAN PATENTS: 2,314,845; 2,504,824; 2,109,186; 2,143,031; 2,409,271; 2,548,958; 2,112,515; 2,476,685; 2,239,007; 2,092,105; 2,107,012. Defender Safety System®, Vitraglas® and Hydrojet® are registered trademarks of Bradford White® Corporation.
### Residential Direct Vent Water Heater

**High Input Energy Saver Models**

- **NATURAL GAS AND LIQUID PROPANE GAS**
- **High Input Energy Saver Models**

Meet or exceed ASHRAE 90.1b (current standard) C.E.C. Listed

### Specifications

- **Number**
- **Model**
- **U.S. Gal.**
- **Capacity Recovery at 90°F Rise**
- **Liters**
- **Imp. Gal.**
- **Input BTU/Hr.**
- **Input Nat. BTU/Hr.**
- **Input LP BTU/Hr.**
- **Capacity at 50°C Rise**
- **Imp. GPH**
- **Liters/Hour**
- **Nat. GPH**
- **LP GPH**
- **Approx. Shipping Weight**
- **Shipping Approx.**

### Dimensions

- **Vent Size in.**
- **Vent Size mm.**
- **Line of Floor to Heating Space Inlet 415mm**
- **Line of Floor to Heating Space Outlet 422mm**
- **Line of Top Space to T&P Conn. 422mm**

### Optional Telescoping Solid Vent Kits:

- **Kit “G”**
- **Kit “H”**
- **Kit “F”**
- **Kit “I”**

### Notes

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

### Important Information

- For model change suffix, “6” to “10”.
- Vent kit components and venting instructions refer to Installation and Operating Manual.
- 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. Suitable for Water (Potable) Heating and Space Heating.

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

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

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

For vent kit components and venting instructions, refer to Installation and Operating Manual.

Flexible Vent Kit (Side View)

Flexible Solid Vent Kit (Side View)

Optional Telescoping Solid Vent Kits:

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