

# Residential Damper Atmospheric Vent High EF Energy Saver Gas Water Heater



Photo is of  
D-4-403S6FBN

## The Damper High EF FVIR Defender Safety System<sup>®</sup> Models Feature:

- **ENERGY STAR<sup>®</sup> Qualified**—These models qualify for the September 1st, 2010 minimum ENERGY STAR<sup>®</sup> EF requirement, as well as most utility rebate programs.
- **Bradford White ICON System<sup>™</sup>**—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 Packages.
- **Automatic Flue Damper**—Reduces stand-by heat loss, resulting in less gas consumption, higher energy factor ratings and improved overall efficiency.
  - Flexible line cord and plug included (120 V.A.C.).
- **Advanced ScreenLok<sup>®</sup> Technology Flame Arrestor Design**—Flame arrestor is designed to prevent ignition of flammable vapor outside of the water heater.
- **Flammable Vapor Sensor**—Electronic sensor prevents burner operation if flammable vapors are detected.
- **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<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup>) is fused to the steel surface by firing at a temperature of over 1600°F (871°C).
- **2" Non-CFC Foam Insulation**—Covers the side and top, reducing the amount of heat loss. This results in less energy consumption, improved operation efficiencies and jacket rigidity.
- **Pedestal Base.**
- **Water Connections**—3/4" NPT factory installed true dielectric fittings.
- **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.**
- **3x4 "Snap Lock" Draft Diverter**—Allows either 3" or 4" vent connections.
- **T&P Relief Valve**—Installed.
- **Low Restriction Brass Drain Valve**—Durable tamper proof design.

## FEATURING:



## 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](http://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.

MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 5,954,492; 5,761,379; 5,943,984; 5,081,696; 5,988,117; 6,142,216; 5,199,385; 5,574,822; 5,372,185; 5,485,879; 5,277,171; (B1)5,341,770; 5,660,165; 5,596,952; 5,682,666; 4,904,428; 5,023,031; 5,000,893; 4,669,448; 4,829,983; 4,808,356; 5,115,767; 5,092,519; 5,052,346; 4,416,222; 4,628,184; 4,861,968; 4,672,919; Re. 34,534; 7,270,087 B2. OTHER U.S. AND FOREIGN PATENT APPLICATIONS PENDING. CURRENT CANADIAN PATENTS: 1,272,914; 1,280,043; 1,289,832; 2,045,862; 2,112,515; 2,108,186; 2,107,012; 2,092,105; 2,409,271  
Defender Safety System<sup>®</sup>, Vitraglas<sup>®</sup>, Hydrojet<sup>®</sup>, and ScreenLok<sup>®</sup> are registered trademarks of Bradford White<sup>®</sup> Corporation.

# Residential Atmospheric Vent Gas Water Heater

## Damper High EF Energy Saver Models

NATURAL GAS AND LIQUID PROPANE GAS

Meet or exceed ASHRAE 90.1b (current standard) C.E.C. Listed  
80% Recovery Efficiency

Model Number	Capacity		Recovery* 90°F Rise		A Floor to Flue Conn.	B Jacket Dia.	C Vent Size	D Floor to T&P Conn.	E Floor to Gas Conn.	F Floor to Top of Heater	G Floor to Water Conn.	H Depth	Approx. Shipping Weight				
	U.S. Gal.	Imp. Gal.	Nat. BTU/Hr. Input	LP BTU/Hr. Input										Nat. U.S. GPH	Nat. Imp. GPH	LP U.S. GPH	LP Imp. GPH
D-4-403S6FBN	40	42	38,000	38,000	40	33	40	33	55 <sup>3</sup> / <sub>4</sub>	22	3 x 4	41 <sup>1</sup> / <sub>2</sub>	11 <sup>3</sup> / <sub>4</sub>	48	49	26 <sup>3</sup> / <sub>4</sub>	151
D-4-504S6FBN	50	33	40,000	40,000	42	34	42	34	64 <sup>1</sup> / <sub>2</sub>	22	3 x 4	50	11 <sup>3</sup> / <sub>4</sub>	57	57 <sup>3</sup> / <sub>4</sub>	26 <sup>3</sup> / <sub>4</sub>	170

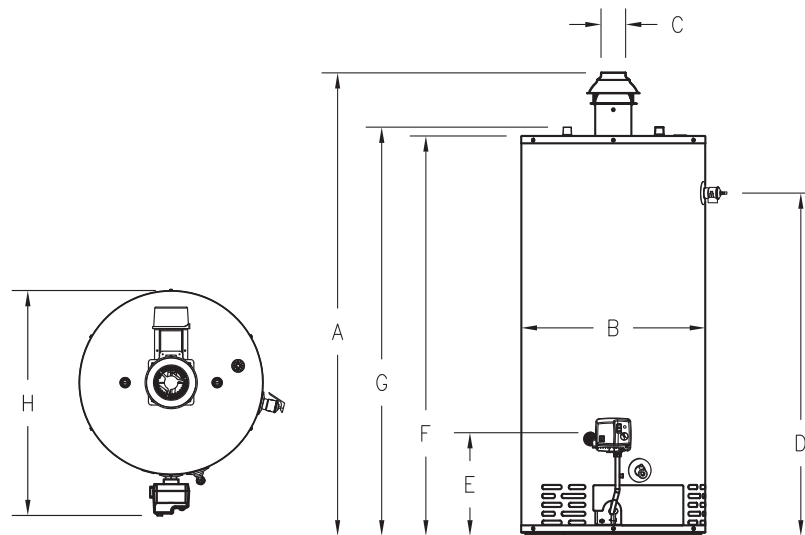
Model Number	Capacity		Recovery* 50°C Rise		A Floor to Flue Conn.	B Jacket Dia.	C Vent Size	D Floor to T&P Conn.	E Floor to Gas Conn.	F Floor to Top of Heater	G Floor to Water Conn.	H Depth	Approx. Shipping Weight	
	U.S. Gal.	Imp. Gal.	Nat. BTU/Hr. Input	LP BTU/Hr. Input										Nat. U.S. GPH
D-4-403S6FBN	151	11.1	11.1	148	148	1416	559	76	1257	298	1219	1245	679	68
D-4-504S6FBN	189	11.7	11.7	155	155	1638	559	76	1270	298	1448	1467	679	77

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

For 10 year models, change suffix from "6" to "10".

\*Based on manufacturers rated recovery efficiency.

115V, 60Hz. 12 Amps.



### 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 potable water connections are 3/4" NPT (19mm) on 11" (279mm) centers. 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. See AHRI for current Energy Factor ratings.**

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



Ambler, PA

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

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International: Telephone 215-641-9400 • Telefax 215-641-9750 / [www.bradfordwhite.com](http://www.bradfordwhite.com)

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**Built to be the Best™**

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