



# Residential Direct Vent Energy Saver Gas Water Heater



- 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 (5"), and exhausts the products of combustion through the inner pipe (3"). The 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.
- Piezo Igniter—Easy and quick lighting of the pilot burner by push button.
- Maintenance Free—The vent piping and the closed combustion chamber with reinforced seals do 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 a 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).
- 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.



Photo is of **DS1**-50S6FBN



6 or 10-Year Limited Tank Warranties / 6-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 Direct Vent Water Heater

## **Direct Vent Energy Saver Models**

NATURAL GAS AND LIQUID PROPANE GAS

Meet or exceed ASHRAE 90.1b (current standard) C.E.C. Listed 79% Recovery Efficiency

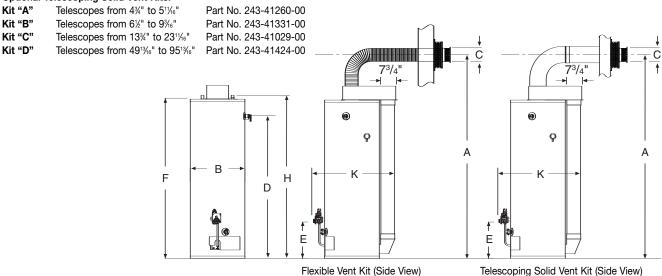
Model Number	Capacity U.S. Imp. Gal. Gal.	Nat.	LP BTU/Hr. Input	Recovery at 90°F Rise* Nat. Nat. LP LP U.S. Imp. U.S. Imp. GPH GPH GPH			LP Imp.	A Floor to Center Line of Vent in.	B Jacket Dia.	C Vent Size in.	D Floor to T&P Conn. in.	E Floor to Gas Conn. in.	F Floor to Top of Heater in.	H Floor to Water Conn. in.	K Depth in.	Approx. Shipping Weight
DS1-40S6FBN	40 33	38,000	36,000	41	34	39	32	63 <sup>1</sup> / <sub>4</sub> min.	20	3-5	431/2	15	493/4	503/4	31 <sup>1</sup> /8	169
DS1-50S6FBN	50 42	42,000	40,000	45	37	43	36	72¹/₄ min.	20	3-5	521/4	15	583/4	593/4	31	186
Model Number	Capacity			Recovery at 50°C Rise*			ıt *	A Floor	B Jacket	C Vent	D Floor	E Floor	F Floor	H Floor	K Depth	Approx. Shipping

Model Number	Capacity			Recov 50°C		A Floor to Center	B Jacket Dia.	C Vent Size	D Floor to T&P	E Floor to Gas	F Floor to Top	H Floor to Water	K Depth	Approx. Shipping Weight
	Liters	Nat. kW Input	LP kW Input	Nat. Liters/ Hour	LP Liters/ Hour	Line of Vent mm.	mm.	mm.	Conn. mm.	Conn. mm.	of Heater mm.	Conn. mm.	mm.	kg.
	LILEIS	IIIput	iliput	Hour	Hour	111111.	1111111.	1111111.	1111111.	1111111.	111111.	1111111.		ĸy.
DS1-40S6FBN	151	11.1	10.5	155	148	1607	508	76-127	1105	381	1264	1289	795	76
DS1-50S6FBN	189	12.3	11.7	170	163	1835	508	76-127	1327	381	1492	1518	787	85

All 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".

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

#### **Optional Telescoping Solid Vent Kits:**



### **Meets NAECA Requirements**

#### Genera

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 8" (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.



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 International: Telephone 215-641-9400 • Telefax 215-641-9750 / www.bradfordwhite.com

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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<sup>\*</sup>Based on manufacturers rated recovery efficiency.

Telescoping Solid Vent Kit (239-47810-00) or Flexible Vent Kit (239-47812-00) can be ordered and shipped with water heater, or ordered and shipped separately