



Residential Energy Saver Gas Direct Vent Water Heater

Features:



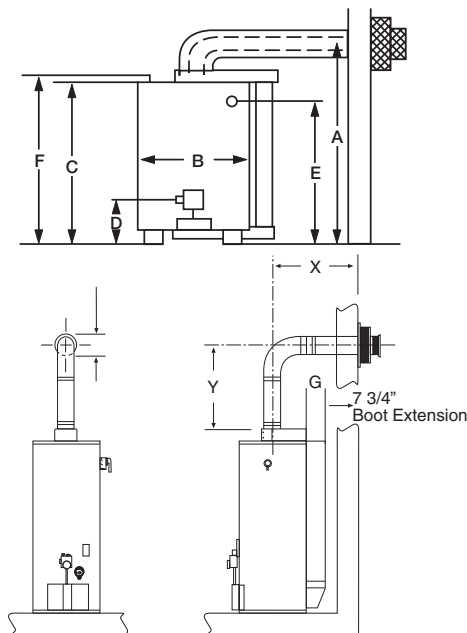
Bradford White is ISO registered to the 9001 standard.

- All residential storage models meet or exceed efficiency requirements of the Department of Energy. ASHRAE Standard 90.1 b (current standard) and the National Appliance Energy Conservation Act of 1987 recent amendment effective January 20, 2004 which supercedes all state and local efficiency requirements.
- **1" Non-CFC foam insulation**—surrounds the tank surface, saving energy by retarding loss of heat.
- **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, and exhausts the products of combustion through the inner pipe.
- **Co-axial**—rotational venting at top of unit.
- **Heat Traps**—factory installed, minimizes heat loss through piping.
- **Water Connections**— $\frac{1}{2}$ " NPT factory installed true dielectric fittings. Extends water heater life and eases installation.
- **No electrical power necessary.**
- **Piezo igniter**—for ease of lighting the pilot.
- **Vitraglas® lined tank**—Bradford White water heater tanks are protected from the corrosive effects of hot water by an exclusive ceramic porcelain-like coating. The Bradford White high silica Vitraglas® lining provides a tough interior surface for our water heater tanks.
- **Factory installed Hydrojet® Total Performance System**—cold inlet sediment reducing device. Helps prevent sediment build up in tank. Increases first hour delivery of hot water while minimizing temperature build up at top of tank.
- **Protective magnesium anode rod**—provides added protection against corrosion for long trouble-free service.
- **Brass drain valve.**
- **T&P relief valve**—included.
- **Fully automatic controls**—automatic temperature selection at your fingertips. Built-in energy cut-off switch for extra safety. Built-in gas pressure regulation. Fast-acting thermostat starts heat recovery cycle sooner.
- **Optional vent kits**—allows for up to 8 foot (2.4 meters) extensions.
- **Six or ten year limited warranty on steel tank**—heavy gauge steel automatically formed, rolled and welded to assure a continuous seam for glass lining.
- **Six year limited warranty on parts.**
- **Design certified by CSA International (formerly AGA/CGA).**

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; 6,684,821; 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. 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.



HORIZONTAL THROUGH THE WALL



Horizontal Installation Only

Standard Kit shipped with unit. Allows 13 3/8" to 23 1/8" maximum horizontal distance to vent terminal from side of jacket.

Optional Kits:

Part Number	Description
243-41260-00	Kit A – Telescopes from 4 3/8" to 5 1/8"
243-41331-00	Kit B – Telescopes from 6 1/2" to 9"
243-41029-00	Kit C – Telescopes from 13 3/8" to 23 1/8"
243-41424-00	Kit D – Telescopes from 49 1/8" to 95 1/8"
243-41473-00	Kit E – Telescopes from 49 1/8" to 95 1/8"

Length Height "X"	13 3/8" 14 1/8"	15" 17 1/8"	22 1/4" 32 1/8"	36" 55 1/8"	58 3/8" 104 1/8"
10"	ORDER KIT A	ORDER KIT B	NO ADD'L KIT REQUIRED	ORDER KIT C	ORDER KIT D
14 3/8" 15 1/8"	ORDER (2) KIT A	ORDER KIT A & B	ORDER KIT A	ORDER KIT A & C	ORDER KIT A & D
16 1/2" 19 1/8"	ORDER KIT A	ORDER (2) KIT B	ORDER KIT B	ORDER KIT B & C	ORDER KIT B & D
23 3/8" 33 1/8"	ORDER KIT A	ORDER KIT B	ORDER KIT C	ORDER (2) KIT C	ORDER KIT D
37 1/2" 57 3/8"	ORDER KIT C & A	ORDER KIT C & B	ORDER (2) KIT C	ORDER (3) KIT C	ORDER KIT C & D
59 1/8" 105 1/8"	ORDER KIT D & A	ORDER KIT D & B	ORDER KIT D	ORDER KIT D & C	ORDER (2) KIT D

Energy Saver Direct Vent Models

CEC listed. 80% Recovery Efficiency

NATURAL GAS										A		B		C		D		E		F					
Model Number	Imp. Gal. Cap.	U.S. Gallon Cap.	Liters	Input BTU	KW	Recovery Per Hour 50° C/90° F Rise			Ht. to Center Line of Vent		Jacket Dia. in. mm.	Ht. to Top of Heater in. mm.	Ht. to Gas Conn. in. mm.	Ht. to T&P Conn. in. mm.	Floor to Water Conn. in. mm.	Vent Dia. in. mm.	Approx. Shipping Weight Lbs. Kg.								
						Imp. Gal.	US Gal.	LPH	in.	mm.															
DS1-40S6BN ^(LP)	33	40	151	38,000	11.1	34	41	155	63¼MIN	1607	20	508	49¾ 1264	14¾ 378	43¾ 1105	50¾ 1289	3-5	76-127	162	73					
DS1-50S6BN ^(LP)	42	50	189	42,000	12.3	37	45	170	72¼MIN	1835	20	508	58¾ 1492	14¾ 378	52¾ 1327	59¾ 1518	3-5	76-127	181	82					

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

All propane gas heaters are equipped with Cast Iron Burner. Change suffix "BN" to "CX".

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.

Meets NAECA Requirements

All natural gas models meet SCAQMD Requirements.

General

All gas water heaters are certified at 300 PSI (2068 kPa) test pressure and 150 PSI (1034 kPa) working pressure. All water connections are 1/2" (19mm) NPT on 8" (703mm) centers on top of unit, all gas connections 1/2" (13mm). All models design certified by CSA International (formerly AGA/CGA). Recovery based on rated efficiency.

Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement.

6-Year Limited Warranty on Component Parts

BRADFORD WHITE CORPORATION has a 6-year warranty on replaceable parts—thermostat, burner, dip tube, drain valve and piezo igniter. These quality components are manufactured for us by industry leaders and will be replaced in the event of failure during the parts warranty period (exclusive of shipping and re-installation cost).§

6 or 10-Year Limited Tank Warranties

BRADFORD WHITE CORPORATION LIMITED WARRANTY: Protects your investment in a quality glass-lined heater. If the tank leaks for reasons of faulty materials, workmanship, or corrosion within the warranty period, the heater will be replaced with a comparable heater of our manufacture (exclusive of shipping and re-installation cost).§

§ Some states do not allow limitations on warranties. See complete copy of the warranty included with this product. Indicated warranties apply to USA, Canada and Puerto Rico installations.

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^(LP) Propane Gas Inputs				Recovery Per Hour 50°C Rise and 90°F Rise		
				Imp. Gal.	U.S. Gal.	Liters/Hr.
DS1-40S6CX	36,000 BTU/H	10.6 KW		32	39	148
DS1-50S6CX	40,000 BTU/H	11.7 KW		36	43	163

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

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