



## Residential Energy Saver High Input Direct Vent Water Heater

### Features:

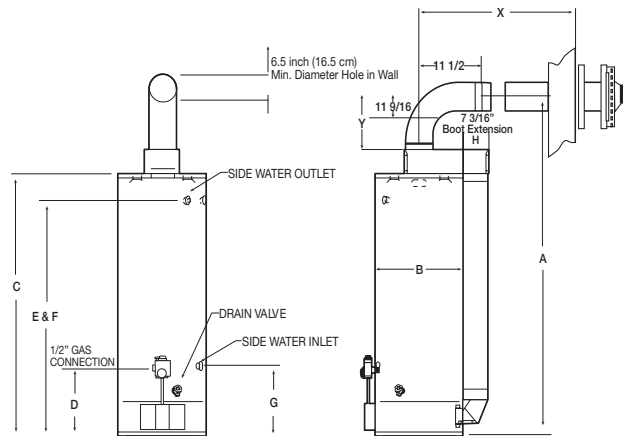


Bradford White is ISO registered to the 9001 standard.

- 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 (6"), and exhausts the products of combustion through the inner pipe (4").
- **Co-axial**—rotational venting at top of unit.
- **Heat Traps**—factory installed, minimizes heat loss through piping.
- **Water Connections**—3/4" 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.
- **Side Tappings**—for space heating purposes.
- **Fully automatic controls**—automatic temperature selection at your fingertips. Built-in energy cut-off switch prevents abnormally high water temperature for extra safety. Built-in gas pressure regulation. Fast-acting thermostat starts heat recovery cycle sooner.
- **Optional vent kits**—allow for up to 8 foot max vertical and 8 foot max horizontal (2.4 meters). All DH-1 models must be terminated horizontally
- **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 and CGA)**

MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 7,063,133 B2; 5,954,492; 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. 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; 2,092,105.5.





The standard vent kit (239-42979-00) is ordered and shipped separately. The components are as follows: 4" vent tube\*, 6" Air Intake Tube, Vent Terminal, Inner Wall Term Mounting Flange, Outer Wall Term. Mounting Flange, Vent Terminal Hardware, RTV Silicone Sealant, 4" Vent Elbow and a 6" Air Intake Elbow. The vent tube and air intake tube telescopes from 13 3/4" to 23 11/16".

|              |                     | Horizontal "X"                       |                                      |                                     |                                      |                                      |
|--------------|---------------------|--------------------------------------|--------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|
|              |                     | 16 1/4<br>17 3/16                    | 18<br>20 11/16                       | 25 1/4<br>35 3/16                   | 37 3/4<br>57 7/8                     | 61 5/16<br>107 5/16                  |
| Vertical "Y" | 11 9/16             | order<br>kit F                       | order<br>kit G                       | <b>no add'l</b><br><b>kit req'd</b> | <b>order</b><br><b>kit H</b>         | order<br>kit I                       |
|              | 16 5/16<br>17 1/4   | *order<br>kit F (2)                  | order<br>kit G & F                   | <b>order</b><br><b>kit F</b>        | <b>order</b><br><b>kit H &amp; F</b> | order<br>kit F & I                   |
|              | 18 1/16<br>20 3/4   | order<br>kit F & G                   | order<br>kit G (2)                   | <b>order</b><br><b>kit G</b>        | <b>order</b><br><b>kit G &amp; H</b> | order<br>kit G & I                   |
|              | 25 5/16<br>35 1/4   | <b>order</b><br><b>kit F</b>         | <b>order</b><br><b>kit G</b>         | <b>order</b><br><b>kit H</b>        | <b>order</b><br><b>kit H (2)</b>     | <b>order</b><br><b>kit I</b>         |
|              | 38 1/16<br>57 15/16 | <b>order</b><br><b>kit H &amp; F</b> | <b>order</b><br><b>kit H &amp; G</b> | <b>order</b><br><b>kit H (2)</b>    | <b>order</b><br><b>kit H (3)</b>     | <b>order</b><br><b>kit H &amp; I</b> |
|              | 61 3/8<br>107 3/8   | order<br>kit I & F                   | order<br>kit I & G                   | <b>order</b><br><b>kit I</b>        | <b>order</b><br><b>kit I &amp; H</b> | order<br>kit I (2)                   |

\* (2) = Order two of the kits referenced.

\* (3) = Order three of the kits referenced.

The bold text above show what kit(s) are needed in addition to the standard vent and air intake tubes. If the standard vent and air intake tubes are not used in the venting system (those that do not have bold text) they can be discarded or saved.

For vent distances not found in the selection chart above, please contact the Product Management Department for sizing recommendations.

## Horizontal Installation Only

### Optional Kits:

| Part Number  | Description                                  |
|--------------|----------------------------------------------|
| 243-42516-00 | Kit F – Telescopes from 4 3/4" to 5 1/16"    |
| 243-42517-00 | Kit G – Telescopes from 6 1/2" to 9 3/16"    |
| 243-42514-00 | Kit H – Telescopes from 13 3/4" to 23 11/16" |
| 243-42512-00 | Kit I – Telescopes from 49 3/16" to 95 1/16" |

## Energy Saver Direct Vent Models

CEC listed.

78% Recovery Efficiency for all models.

| NATURAL GAS                 |                |                |        |           |      |                         |        |     |                                    | A                   | B                            | C                        | D                        | E                         | F                        | G                 |                            |  |
|-----------------------------|----------------|----------------|--------|-----------|------|-------------------------|--------|-----|------------------------------------|---------------------|------------------------------|--------------------------|--------------------------|---------------------------|--------------------------|-------------------|----------------------------|--|
| Model Number                | Imp. Gal. Cap. | U.S. Gal. Cap. | Liters | Input BTU | KW   | GPH Rec. 50°C/90°F Rise |        |     | Ht. to Center Line of Vent in. mm. | Jacket Dia. in. mm. | Ht. to Top of Heater in. mm. | Ht. to Gas Conn. in. mm. | Ht. to T&P Conn. in. mm. | Space Htg. Outlet in. mm. | Space Htg. Inlet in. mm. | Vent Dia. in. mm. | Approx. Shpg. Wt. Lbs. Kg. |  |
|                             |                |                |        |           |      | Imp. Gal.               | US GPH | LPH |                                    |                     |                              |                          |                          |                           |                          |                   |                            |  |
| DH1-504T6BN <sup>(LP)</sup> | 40             | 48             | 182    | 50,000    | 14.7 | 43                      | 53     | 201 | 75 3/4 1911                        | 20 508              | 58 3/4 1492                  | 15 3/4 387               | 52 1/4 1327              | 52 1/4 1327               | 15 3/4 400               | 4/6 102/152       | 197/89.4                   |  |
| DH1-65T6BN                  | 54             | 65             | 246    | 55,000    | 16.1 | 47                      | 58     | 220 | 78 1/4 1988                        | 22 559              | 62 1557                      | 15 3/4 387               | 56 1422                  | 56 1422                   | 15 3/4 400               | 4/6 102/152       | 243/110                    |  |
| DH1-75S6BN <sup>(LP)</sup>  | 62             | 75             | 284    | 60,000    | 17.6 | 51                      | 63     | 238 | 75 3/4 1918                        | 24 622              | 59 1499                      | 15 3/4 387               | 52 1321                  | 52 1321                   | 16 1/4 419               | 4/6 102/152       | 281/127                    |  |

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.

### 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 3/4" (19mm) NPT on 11" (703mm) centers on top of unit, all gas connections 1/2" (13mm). All models design certified by CSA International (formerly AGA and CGA). Recovery based on rated efficiency.

**Meets NAECA requirements. All natural gas models meet SCAQMD requirements.**

**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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**Count On Bradford White  
For Everything Hot Water™**

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|             |              | Recovery at 50°C Rise and 90°F Rise |          |            |
|-------------|--------------|-------------------------------------|----------|------------|
|             |              | Imp. GPH                            | U.S. GPH | Liters/Hr. |
|             |              | 41                                  | 50       | 189        |
| DH1-504T6CX | 48,000 BTU/H | 14.1                                | 41       | 189        |
| DH1-75S6CX  | 57,000 BTU/H | 16.7                                | 48       | 227        |

**BRADFORD WHITE®**  
CORPORATION  
Ambler, PA

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

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