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—⅜" 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.
- 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; (915,341,770); 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 Installation Only

**Standard Kit shipped with unit.** Allows 131⁄4" to 233⁄4" maximum horizontal distance to vent terminal from side of jacket.

### Optional Kits:

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>243-41260-00</td>
<td>Kit A – Telescopes from 41⁄4&quot; to 51⁄4&quot;</td>
</tr>
<tr>
<td>243-41331-00</td>
<td>Kit B – Telescopes from 61⁄2&quot; to 91⁄2&quot;</td>
</tr>
<tr>
<td>243-41029-00</td>
<td>Kit C – Telescopes from 131⁄2&quot; to 233⁄4&quot;</td>
</tr>
<tr>
<td>243-41424-00</td>
<td>Kit D – Telescopes from 491⁄4&quot; to 951⁄4&quot;</td>
</tr>
<tr>
<td>243-41473-00</td>
<td>Kit E – Telescopes from 491⁄4&quot; to 951⁄4&quot;</td>
</tr>
</tbody>
</table>

### Energy Saver Direct Vent Models

**CEC listed. 80% Recovery Efficiency**

### NATURAL GAS

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>DS1-4056BN(8)</td>
<td>33</td>
<td>40</td>
<td>151</td>
<td>38,000</td>
<td>11.1</td>
<td>34</td>
<td>41</td>
<td>155</td>
<td>63</td>
<td>63</td>
<td>1607</td>
<td>20</td>
<td>508</td>
<td>491/1264</td>
<td>141/378</td>
<td>431/1105</td>
<td>505/1289</td>
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<tr>
<td>DS1-5056BN(8)</td>
<td>42</td>
<td>50</td>
<td>189</td>
<td>42,000</td>
<td>12.3</td>
<td>37</td>
<td>45</td>
<td>170</td>
<td>72</td>
<td>72</td>
<td>1835</td>
<td>20</td>
<td>508</td>
<td>581/1492</td>
<td>141/378</td>
<td>521/1327</td>
<td>591/1518</td>
</tr>
</tbody>
</table>

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 NAEC 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 3⁄4" (19mm) NPT on 8" (703mm) centers on top of unit, all gas connections 13⁄4" (19mm). 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.**

### Propane Gas Inputs

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Recovery Per Hour 50°C Rise and 90°F Rise</th>
<th>Imp.</th>
<th>U.S.</th>
<th>Liters/ Gal.</th>
<th>Hr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS1-4056CX</td>
<td>36,000 BTU/H</td>
<td>10.6</td>
<td>32</td>
<td>39</td>
<td>148</td>
</tr>
<tr>
<td>DS1-5056CX</td>
<td>40,000 BTU/H</td>
<td>11.7</td>
<td>36</td>
<td>43</td>
<td>163</td>
</tr>
</tbody>
</table>

### Vitraglas® and Hydrojet®

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### BRADFORD WHITE CORPORATION

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

Fax on Demand: 888-538-7833

www.bradfordwhite.com

### BRADFORD WHITE CANADA INC.

Mississauga, ON

Sales/Technical Support
866-690-0991
905-238-0100
Fax/905-238-0105

www.bradfordwhitecanada.com

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**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).‡

‡ 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.

**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.

**Products Only For Professionals**

**Printed in U.S.A.**