

# Light-Duty Direct Vent Commercial Gas Water Heater

## Features

- **Bradford White ICON System®**—Intelligent gas control with no need for external electricity. Proprietary algorithms provide tighter temperature differential and consistent water temperature levels up to 180°F (82°C). LED light indicates operation status/service required.
- **Vitraglas® Lining with Microban®**—An exclusively engineered enamel formula that provides superior tank protection from the corrosive effects of water; and with Microban® antimicrobial product protection to help prevent the growth of bacteria, mold and mildew on the surface of the tank lining.
- **Hydrojet® Total Performance System**—Sediment reducing device that also increases first hour rating of hot water while minimizing temperature build-up in tank.

## Additional Details

- **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. The co-axial 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.
- **Maintenance-Free**—The vent piping and the closed combustion chamber with reinforced seals does 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.
- **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" (2540mm) (horizontal termination only).
- **3/4" (19mm) NPT Side Connections**—3/4" (19mm) NPT tappings that allow easy connections for space heating applications (potable water only).
- **Protective Anode Rod**—Provides added protection against corrosion for long-term, trouble-free service.
- **Insulation System**—Non-CFC foam insulation covers the sides and top of the tank, reducing heat loss.
- **Pedestal Base**—Rugged and durable base allows easy transport and positioning while providing corrosion-resistant contact with floor.
- **Factory-Installed Heat Traps**—Design incorporates a flexible disk that reduces heat loss in piping and eliminates the potential for noise generation.
- **Water Connections**—3/4" (19mm) NPT factory-installed true dielectric fittings.
- **T&P Relief Valve**—Installed.
- **Low Restrictive Brass Drain Valve**—Durable tamper proof design.
- **NOx Emissions**—Less than 40 ng/J.



Photo is of LG2DV50H503N

**ICON**  
System

**VITRAGLAS**  
+  
**MICROBAN**

**Hydrojet**



### 3 or 5-Year Limited Tank Warranties / 1-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. See complete copy of the warranty included with the heater for limitations.

Microban® antimicrobial product protection helps prevent the growth of bacteria, mold and mildew that may affect the product. The built-in antimicrobial properties do not protect users or others from disease-causing organisms. Microban® is a registered trademark of Microban Products Company.

C1705-0825 CANADA

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## SPECIFICATIONS

Natural Gas and Liquid Propane Gas

These water heaters meet or exceed all or portions of (where applicable) the minimum efficiency requirements of ASHRAE Standard 90.1 (latest edition) 78% Recovery Efficiency.

Model Number	Rated Nominal Volume		BTU/Hr. Input	LP BTU/Hr. Input	First Hour Rating (Gal.)	Uniform Energy Factor	Recovery at 100°F Rise*				Model Number	Rated Nominal Volume		kW Input	LP kW Input	First Hour Rating (Liters)	Uniform Energy Factor	Recovery at 56°C Rise*	
	U.S. Gal.	Imp. Gal.					U.S. GPH	Imp. GPH	U.S. GPH	LP Imp. GPH		Liters	Liters					Liters/ Hour	LP Liters/ Hour
LG2DV50H503N	48	40	50,000	48,000	96	0.64	47	39	45	38	LG2DV50H503N	182	14.7	14.0	364	0.64	178	170	
Model Number	A Floor to C/L of Vent Conn. in.	B Jacket Dia. in.	C Vent Size in. ID / OD	D Floor to T&P Conn. in.	E Floor to Gas Conn. in.	F Floor to Top of Heater in.	G Floor to Water Conn. in.	H Depth in.	J C/L of Water Conn. in.	K Floor to Space Heating Inlet in.	L Floor to Space Heating Outlet in.	M Water Conn. NPT in.	R Space Heating Conn. Size in.	S Gas Conn. Size in.	Approx. Shipping Weight lbs.				
LG2DV50H503N	75 <sup>11</sup> / <sub>16</sub>	22	4 6	52 <sup>1</sup> / <sub>4</sub>	10	59 <sup>3</sup> / <sub>16</sub>	61 <sup>7</sup> / <sub>16</sub>	33 <sup>5</sup> / <sub>16</sub>	11	15 <sup>3</sup> / <sub>4</sub>	52 <sup>1</sup> / <sub>4</sub>	<sup>3</sup> / <sub>4</sub>	<sup>3</sup> / <sub>4</sub>	<sup>1</sup> / <sub>2</sub>	217				
Model Number	A Floor to C/L of Vent Conn. mm.	B Jacket Dia. mm.	C Vent Size mm. ID / OD	D Floor to T&P Conn. mm.	E Floor to Gas Conn. mm.	F Floor to Top of Heater mm.	G Floor to Water Conn. mm.	H Depth mm.	J C/L of Water Conn. mm.	K Floor to Space Heating Inlet mm.	L Floor to Space Heating Outlet mm.	M Water Conn. NPT mm.	R Space Heating Conn. Size mm.	S Gas Conn. Size mm.	Approx. Shipping Weight kg.				
LG2DV50H503N	1929	559	102 152	1327	254	1503	1561	846	279	400	1327	19	19	13	98				

All Propane models feature a Titanium Stainless Steel propane burner. For Propane (LP) models change suffix "N" to "X".

For 5 year models change suffix from "3" to "5".

\* Based on manufacturer's rated recovery efficiency.

Uniform Energy Factor and First Hour Rating is based on the latest AHRI directory listings.

**Solid Vent Kit:** Part No. 415-51286-00. **Flexible Vent Kit:** Part No. 415-51287-00.

Kits can be ordered and shipped with water heater, or ordered and shipped separately. For vent kit components and venting instructions, refer to Installation and Operation Manual.

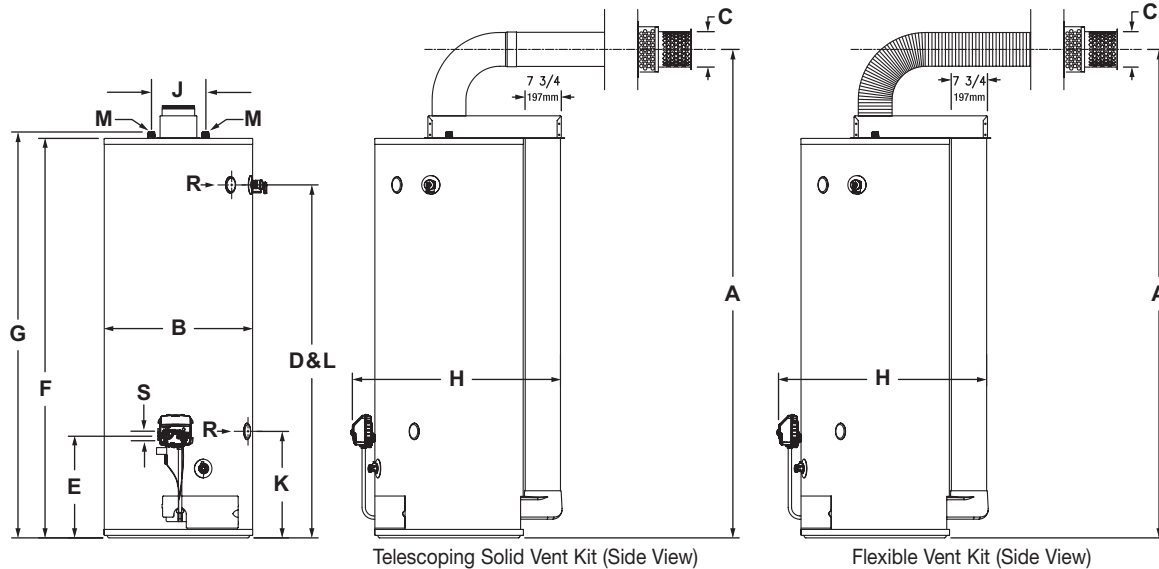
### LG2DV50H503N Optional Telescoping Solid Vent Kits:

Kit "F" Telescopes from 4<sup>3</sup>/<sub>4</sub>" to 5<sup>11</sup>/<sub>16</sub>" (121mm to 145mm) Part No. 239-42516-00

Kit "G" Telescopes from 6<sup>1</sup>/<sub>2</sub>" to 9<sup>9</sup>/<sub>16</sub>" (165mm to 233mm) Part No. 415-42517-00

Kit "H" Telescopes from 13<sup>13</sup>/<sub>16</sub>" to 23<sup>1</sup>/<sub>16</sub>" (349mm to 602mm) Part No. 415-42514-00

Kit "I" Telescopes from 49<sup>13</sup>/<sub>16</sub>" to 95<sup>13</sup>/<sub>16</sub>" (1265mm to 2434mm) Part No. 415-42512-00



## GENERAL:

### Meets NAECA Requirements.

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). All gas connections 1/2" (13mm). All models design-certified by CSA International, ANSI Z21.10.1 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.

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