

Light Duty Commercial Direct Vent Gas Water Heater



Photo is of LG2DV50H503N

FEATURING: =



The Direct Vent FVIR Defender Safety System® Models Feature:

- Bradford White ICON System®—Intelligent gas control with proven millivolt powered technology and built-in piezo igniter. A standard, off-the-shelf thermopile converts heat energy from the pilot flame into electrical energy to operate the gas valve and microprocessor. No need for external electricity.
 - Enhanced Performance—Proprietary algorithms provide enhanced First Hour Rating and tighter temperature differential.
 - Advanced Temperature Control System
 —Microprocessor controls burner operation for consistent and accurate water temperature levels up to 180°F (82°C).
 - Intelligent Diagnostics—Exclusive multicolor LED light indicates operation status/ service required.
- 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.
- Factory-Installed Hydrojet® Total Performance System—Sediment reducing device that also increases first hour rating of hot water while minimizing temperature build-up in tank.
- Vitraglas® Lining—An exclusively engineered enamel formula that provides superior tank 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 (871°C).
- 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).
- Side Connections—3/4" (19mm) NPT tappings allow easy connections for space heating applications (Potable water only).
- Insulation System—2" (51mm) Non-CFC foam insulation covers the sides and top of the tank, reducing heat loss.
- Pedestal Base.
- Water Connections—3/4" (19mm) NPT factory-installed true dielectric fittings.
- **■** Factory-Installed Heat Traps.
- Protective Magnesium Anode Rod.
- T&P Relief Valve—Installed.
- Low Restrictive Brass Drain Valve—Durable tamper proof design.
- NOx Emissions—Less than 40 ng/J.









3 or 5 Year Limited Tank Warranty / 1-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.

Light Duty Commercial Direct Vent Water Heater

Direct Vent Models

NATURAL GAS AND LIQUID PROPANE GAS

Meet or exceed ASHRAE 90.1b (current standard) C.E.C. Listed 78% Recovery Efficiency

NATURAL GAS A	NATURAL GAS AND LIQUID PROPANE GAS								70 /0 Housesty Emolency											
Model Number	Nominal Gal. Capacity U.S. Imp. Gal. Gal.	DOE Rated Storage Volume (Gal.)	BTU/Hr. Input	LP BTU/Hr. Input	First Hour Rating (Gal.)	Uniform Energy Factor		Recovery at 100°F Rise* LP Imp. U.S. GPH GPH	LP Imp.		Number		lominal Liter apacity	DOE Rated Storage Volume (Liters)	kW Input	LP kW Input	First Hour Rating (Liters)	Uniform Energy Factor	56 Liter Hou	r Hour
LG2DV50H503N	48 40	46	50,000	48,000	96	0.64	47	39 45	38		LG2DV50H50	3N	182	174	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	Floor 1 T&P Conn in.	. Co	ias onn. in.	F loor to Top of Heater in.	G Floor to Water Conn. in.) De	H pth n.	J C/L of Water Conn. in.	Floo Spa Heating in	ce g Inlet	L Floor to Space Heating Ou in.		M Water Conn. NPT in.	R Spac Heatin Conn. S in.	e G ig Co iize S i	S as inn. ize n.	Approx. Shipping Weight Ibs.
LG2DV50H503N	75 11/16	22	4 6	521/4		10	59 ³ / ₁₆	617/16	33	5/16	11	153	3/4	521/4		3/4	3/4	1	/2	217
Model Number	A Floor to C/L of Vent Conn. mm.	B Jacket Dia. mm.	C Vent Size mm. ID / OD	D Floor t T&P Conn mm.	. C	as	F Toor to Top of Heater mm.	G Floor to Water Conn. mm.) Di	H epth nm.	J C/L of Water Conn. mm.	Floo Spa Heatin mr	ace g Inlet	L Floor to Space Heating Ou mm.		M Water Conn. NPT mm.	R Spac Heati Conn. S mm	e C ng Co Size S	S das onn. dize nm.	Approx. Shipping Weight kg.
LG2DV50H503N	1929	559	102 152	1327	2	54	1503	1561	8	46	279	40	00	1327		19	19		13	98

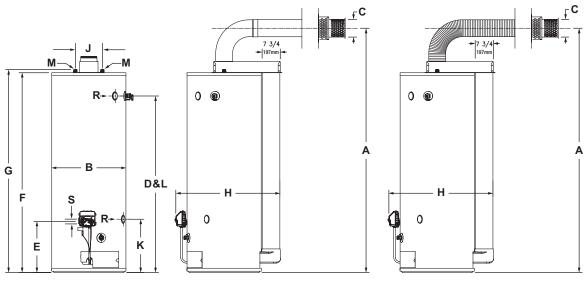
All Propane models feature a Titanium Stainless Steel propane burner. For Propane (LP) models change suffix "N" to "X".

Solid Vent Kit: Part No. 239-51286-00. Flexible Vent Kit: Part No. 239-51287-00.

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 4¾" to 511/6"	(121mm to 145mm)	Part No. 239-42516-00
Kit "G" Telescopes from 6½" to 9%6"	(165mm to 233mm)	Part No. 239-42517-00
Kit "H" Telescopes from 13%" to 2311/16"	(349mm to 602mm)	Part No. 239-42514-00
Kit "I" Telescopes from 491\%6" to 951\%6"	(1265mm to 2434mm)	Part No. 239-42512-00



Telescoping Solid Vent Kit (Side View)

Flexible Vent Kit (Side View)

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 (formerly AGA/CGA), 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.





 $\label{thm:contact} \mbox{For field service, contact your professional installer or local Bradford White sales representative.}$

Sales 800-523-2931 ■ Fax 215-641-1612

Technical Support 800-334-3393 ■ Email techserv@bradfordwhite.com

Warranty 800-531-2111 ■ Email warranty@bradfordwhite.com

International: Telephone 1-215-641-9400

Email international@bradfordwhite.com / www.bradfordwhite.com

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.