

Direct Vent

Residential 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 160°F (70°C). LED light indicates operation status/service required.
- **Vitraglas® Lining with Antimicrobial Technology**—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).
- **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**—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 can be rotated for venting flexibility.
- **Cast Aluminum Air Intake Boot**—Provides exceptional installation durability.
- **Telescoping Solid Vent Kits**—Allow up to 8ft. vertical and 8ft. horizontal vent lengths**.
- **Flexible Vent Kit**—Maximum vent length can be flexed to 100" (2540mm)**.
- **Insulation System**—Non-CFC foam covers the tank, reducing heat loss, energy consumption, and improves efficiency and jacket rigidity.
- **Pedestal Base**—Rugged and durable base allows easy transport and positioning while providing corrosion-resistant contact with floor.
- **Water Connections**—3/4" (19mm) NPT factory-installed true dielectric fittings.
- **Factory-Installed Heat Traps.**
- **Protective Anode Rod**—Provides added protection against corrosion for long-term, trouble-free service.
- **T&P Relief Valve**—Installed.
- **Low Restrictive Brass Drain Valve**—Durable tamper proof design.
- **NOx Emissions**—Less than 40 ng/J.

*May vary by region

**Horizontal termination only



Photo is of RG2DV50H6N

ICON
System

VITRAGLAS
SUPERIOR PROTECTION SINCE 1941

Hydrojet



6 or 10-Year Limited Tank Warranties / 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. See complete copy of the warranty included with the heater for limitations.

INT1105-0725

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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		DOE Rated Storage Volume (Gal.)	BTU/Hr. Input	LP BTU/Hr. Input	First Hour Rating (Gal.)	Uniform Energy Factor	Recovery at 100°F Rise*				Model Number	Rated Nominal Volume	DOE Rated Storage Volume (Liters)	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/ Hour
LG2DV50H503N	48	40	46	50,000	48,000	96	0.64	47	39	45	38	LG2DV50H503N	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	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 ^{11/16}		22	4 6	52 ^{1/4}	10	59 ^{3/16}	61 ^{7/16}	33 ^{3/16}	11	15 ^{3/4}	52 ^{1/4}	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 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.

RG2DV40S6N / RG2DV50S6N Solid Vent Kit: Part No. 415-51283-00. **RG2DV40S6N / RG2DV50S6N Flexible Vent Kit:** Part No. 415-51284-00.

RG2DV50H6N Solid Vent Kit: Part No. 415-51286-00. **RG2DV50H6N 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.

RG2DV40S6N / RG2DV50S6N Optional Telescoping Solid Vent Kits:

Kit "A" Telescopes from 4^{3/4}" to 5^{1/8}" (121mm to 145mm) Part No. 415-41260-00

Kit "B" Telescopes from 6^{1/8}" to 9^{1/8}" (165mm to 233mm) Part No. 415-41331-00

Kit "C" Telescopes from 13^{3/4}" to 23^{1/8}" (349mm to 602mm) Part No. 415-41029-00

Kit "D" Telescopes from 49^{1/8}" to 95^{1/8}" (1265mm to 2434mm) Part No. 415-41424-00

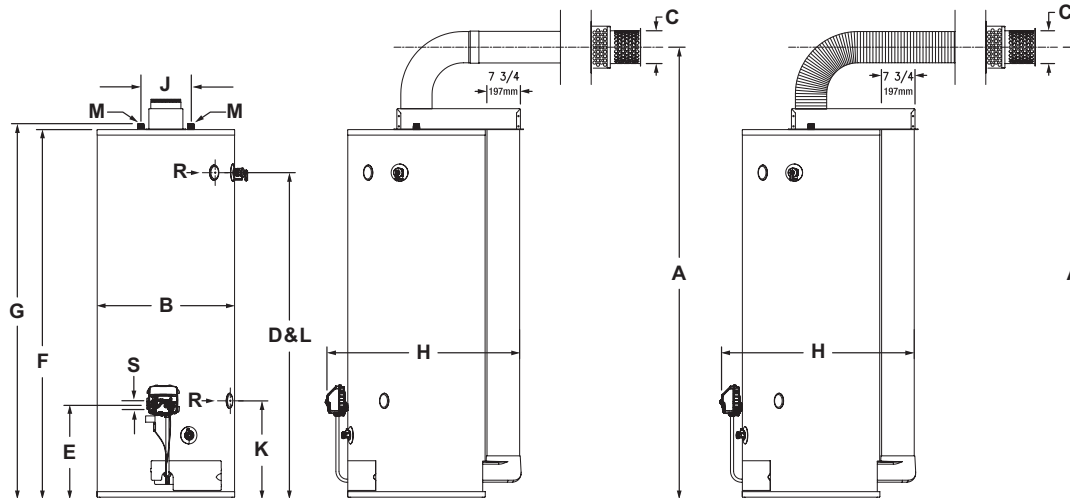
RG2DV50H6N Optional Telescoping Solid Vent Kits:

Kit "F" Telescopes from 4^{3/4}" to 5^{1/8}" (121mm to 145mm) Part No. 239-42516-00

Kit "G" Telescopes from 6^{1/8}" to 9^{1/8}" (165mm to 233mm) Part No. 415-42517-00

Kit "H" Telescopes from 13^{3/4}" to 23^{1/8}" (349mm to 602mm) Part No. 415-42514-00

Kit "I" Telescopes from 49^{1/8}" to 95^{1/8}" (1265mm to 2434mm) Part No. 415-42512-00



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, 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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