

Residential Ultra Low NOx Direct Vent Gas Water Heater



Photo is of
URG2DV50H6N

FEATURING:



The Direct Vent FVIR Eco-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.
- **Ultra Low NOx Burner with Primary and Secondary Air Distribution Devices**—Ensures proper air to gas ratio for reduction of NOx generated by the combustion process.
- **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 tapings allow easy connections for space heating applications (Potable water only), (URG2DV50H6N only).
- **Insulation System**—2" (51mm) Non-CFC foam insulation covers the sides and top of the tank, reducing heat loss. This results in less energy consumption, improved efficiencies, and jacket rigidity.
- **Pedestal Base.**
- **Water Connections**—3/4" (19mm) NPT factory-installed true dielectric fittings.
- **Factory-Installed Heat Traps.**
- **Protective Anode Rod.**
- **T&P Relief Valve**—Installed.
- **Low Restrictive Brass Drain Valve**—Durable tamper proof design.
- **Design Certified by CSA International (formerly AGA/CGA).**
- **Complies with the latest Ultra Low NOx requirement (10 ng/J NOx limit).**

6 or 10-Year Limited Tank Warranties / 6 or 10-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.

MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 5,682,666; 7,634,976; 5,660,165; 5,954,492; 6,056,542; 6,935,280; 5,372,185; 5,485,879; 5,574,822; 7,971,560; 7,992,526; 6,684,821; 7,334,419; 7,866,168; 7,270,087; 7,007,748; 5,596,952; 6,142,216; 7,699,026; 5,341,770; 7,337,517; 7,665,211; 7,665,210; 7,063,132; 7,063,133; 7,559,293; 7,900,589; 5,943,984; 8,082,888; 5,988,117; 7,621,238; 7,650,859; 5,761,379; 7,409,925; 5,277,171; 8,146,772; 7,458,341; 2,262,174. OTHER U.S. AND FOREIGN PATENT APPLICATIONS PENDING. CURRENT CANADIAN PATENTS: 2,314,845; 2,504,824; 2,108,186; 2,143,031; 2,409,271; 2,548,958; 2,112,515; 2,476,685; 2,239,007; 2,092,105; 2,107,012. Defender Safety System®, Vitraglas® and Hydrojet® are registered trademarks of Bradford White® Corporation.

Residential Direct Vent Water Heater

Direct Vent Models

NATURAL GAS

Meet or exceed ASHRAE 90.1 (latest edition). C.E.C. Listed
78% Recovery Efficiency

Model Number	Rated Nominal Volume		DOE Rated Storage Volume (Gal.)	Input BTU/Hr.	First Hour Rating (Gal.)	Uniform Energy Factor	Recovery at 90°F Rise*		Model Number	Rated Nominal Volume	DOE Rated Storage Volume (Liters)	Input kW	First Hour Rating (Liters)	Uniform Energy Factor	Recovery at 50°C Rise*	
	U.S. Gal.	Imp. Gal.					U.S. GPH	Imp. GPH		Liters					Liters/Hour	
URG2DV40S6N	40	33	38	38,000	62	0.60	41	34	URG2DV40S6N	151	144	11.1	235	0.60	155	
URG2DV50S6N	50	42	47	38,000	78	0.63	41	34	URG2DV50S6N	189	178	11.1	296	0.63	155	
URG2DV50H6N	48	40	46	45,000	83	0.64	46	38	URG2DV50H6N	182	174	13.2	314	0.64	174	

Model Number	A Floor to C/L of Vent 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.
URG2DV40S6N	63 1/2	22	3 5	43 7/16	15 1/8	50 5/16	51 3/4	31 3/8	8	N/A	N/A	3/4	N/A	1/2	198
URG2DV50S6N	72 1/2	22	3 5	52 5/16	15 1/8	59 5/16	60 11/16	31 1/2	8	N/A	N/A	3/4	N/A	1/2	221
URG2DV50H6N	74 1/4	22	4 6	52 5/16	15 1/8	59 5/16	60 3/16	31 5/8	11	15 13/16	52 5/16	3/4	3/4	1/2	240

Model Number	A Floor to C/L of Vent 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.
URG2DV40S6N	1613	559	76 127	1103	384	1278	1314	797	203	N/A	N/A	19	N/A	13	90
URG2DV50S6N	1842	559	76 127	1329	384	1507	1541	800	203	N/A	N/A	19	N/A	13	100
URG2DV50H6N	1886	559	102 152	1329	384	1507	1529	803	279	402	1329	19	19	13	109

Available in Natural Gas only. For 10 year models, change suffix from "6" to "10". *Based on manufacturer's rated recovery efficiency.

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

URG2DV40S6N / URG2DV50S6N Solid Vent Kit: Part No. 415-51283-00. **URG2DV40S6N / URG2DV50S6N Flexible Vent Kit:** Part No. 415-51284-00.

URG2DV50H6N Solid Vent Kit: Part No. 415-51286-00. **URG2DV50H6N 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.

URG2DV40S6N / URG2DV50S6N 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 1/2" to 9 5/8" (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

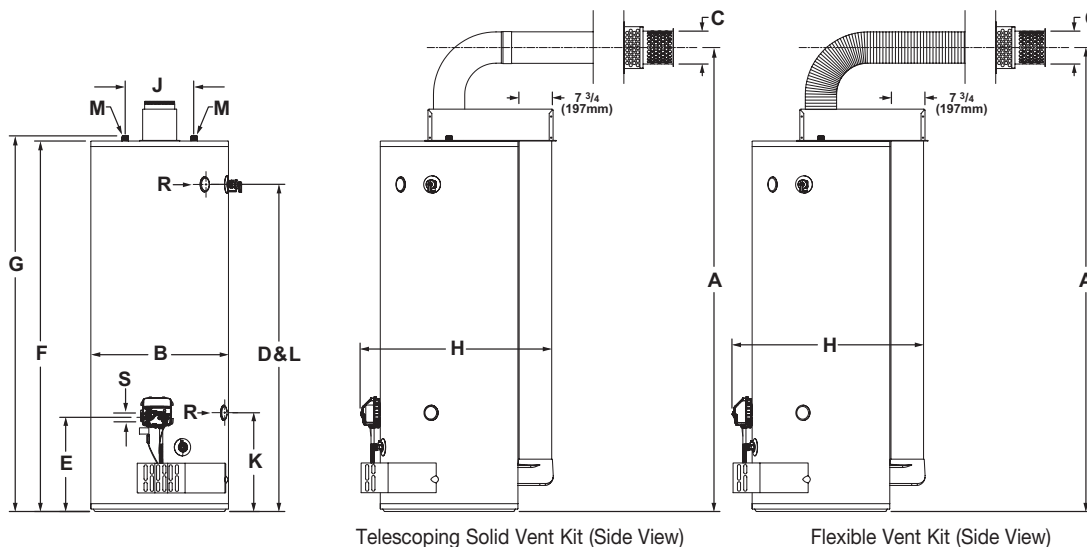
URG2DV50H6N Optional Telescoping Solid Vent Kits:

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

Kit "G" Telescopes from 6 1/2" to 9 5/8" (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 (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.

— BRADFORD WHITE IS —

**AMERICAN
STRONG**

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24/7 Technical Support: 800-334-3393 ■ Email techserv@bradfordwhite.com

Products made by Bradford White are manufactured in the United States using the finest raw materials and components from around the world.

Built to be the Best®