

## Residential Damper Atmospheric Vent Gas Water Heater



Photo is of  
RG1D40S6N

### FEATURING:



### The Damper FVIR Defender Safety System® Models Feature:

- **Bradford White ICON System®**—Intelligent gas control with spark to pilot ignition system eliminates the constant burning pilot. This results in savings of pilot gas during standby periods (120 VAC).
  - **Enhanced Performance**—Proprietary algorithms provide enhanced First Hour Rating and tighter temperature differential.
  - **Advanced Temperature Control System**—Microprocessor constantly monitors and controls burner operation to maintain consistent and accurate water temperature levels.
  - **Intelligent Diagnostics**—An exclusive green LED light prompts the installer during start-up and provides ten different diagnostic codes to assist in troubleshooting.
  - **Pilot On Indication**—Flashing green LED provides positive indication that pilot is on.
  - **Separate Immersed Thermowell**—High-strength advanced polymer composite thermowell provides isolation between electric temperature sensor and surrounding water. No need to drain the tank when removing gas valve.
- **Automatic Flue Damper**—Reduces standby heat loss, resulting in less gas consumption, higher energy factor ratings, and improved overall efficiency.
  - Ten Foot Power Cord—Included (120 VAC).
- **Advanced ScreenLok® Technology Flame Arrestor Design**—Flame arrestor is designed to prevent ignition of flammable vapor outside of the water heater.
- **Flammable Vapor Sensor**—Electronic sensor prevents burner operation if flammable vapors are detected.
- **Maintenance-Free**—No regular cleaning of air inlet openings or flame arrestor is required under normal 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).
- **Insulation System**—Non-CFC foam 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 extend water heater life and simplify water line connections.
- **Factory-Installed Heat Traps**—Design incorporates a flexible disk that reduces heat loss in piping and eliminates the potential for noise generation.
- **Protective Magnesium Anode Rod.**
- **3x4 "Snap Lock" Draft Diverter**—Allows either 3" (76mm) or 4" (102mm) vent connections.
- **T&P Relief Valve**—Installed.
- **Low Restrictive Brass Drain Valve**—Durable tamper proof design.
- **NOx Emissions**—Less than 40 ng/J.

### 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](http://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®, Hydrojet®, and ScreenLok® are registered trademarks of Bradford White® Corporation.

# Residential Damper Atmospheric Vent Gas Water Heater

## Damper Models

NATURAL GAS AND LIQUID PROPANE GAS

Recovery efficiency ranging up to 80%

Model Number	Nominal Gal. Capacity		LP BTU/Hr. Input		First Hour Rating (Gal.)	Uniform Energy Factor	Recovery at 90°F Rise*				Model Number	Nominal Liter Capacity	kW Input	LP kW Input	First Hour Rating (Liters)	Uniform Energy Factor	Recovery at 50°C Rise*	
	U.S. Gal.	Imp. Gal.	BTU/Hr. Input	BTU/Hr. Input			U.S. GPH	Imp. GPH	U.S. GPH	Imp. GPH							Liters/Hour	LP Liters/Hour
RG1D30T6N●	30	25	32,000	31,000	53	0.60	34	28	33	28	RG1D30T6N●	114	9.4	9.1	201	0.60	129	125
RG1D40S6N●	40	35	40,000	36,000	67	0.59	43	36	41	34	RG1D40S6N●	151	11.7	10.5	254	0.59	163	155
RG1D40T6N●	40	35	40,000	36,000	65	0.58	43	36	41	34	RG1D40T6N●	151	11.7	10.5	246	0.58	163	155
RG1D50T6N●	50	42	40,000	36,000	78	0.63	43	36	41	34	RG1D50T6N●	189	11.7	10.5	295	0.63	163	155

Model Number	A Floor to Exhaust Conn. in.	B Jacket Dia. in.	C Vent Size in.	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.	M Water Conn. NPT in.	S Gas Conn. Size in.	Approx. Shipping Weight lbs.
RG1D30T6N●	63	16	3 or 4	49 <sup>11/16</sup>	13	56 <sup>1/4</sup>	57	20 <sup>3/4</sup>	8	3/4	1/2	116
RG1D40S6N●	57 <sup>7/8</sup>	20	3 or 4	41	13	48	49 <sup>1/8</sup>	24 <sup>3/4</sup>	8	3/4	1/2	147
RG1D40T6N●	63 <sup>3/8</sup>	18	3 or 4	49 <sup>11/16</sup>	13	56 <sup>9/16</sup>	57 <sup>3/4</sup>	22 <sup>3/4</sup>	8	3/4	1/2	134
RG1D50T6N●	63 <sup>3/8</sup>	20	3 or 4	49 <sup>7/8</sup>	13	56 <sup>9/16</sup>	57 <sup>3/4</sup>	24 <sup>3/4</sup>	8	3/4	1/2	160

Model Number	A Floor to Exhaust Conn. mm.	B Jacket Dia. mm.	C Vent Size mm.	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.	M Water Conn. NPT mm.	S Gas Conn. Size mm.	Approx. Shipping Weight kg.
RG1D30T6N●	1600	406	76 or 102	1262	330	1429	1448	527	203	19	13	53
RG1D40S6N●	1470	508	76 or 102	1041	330	1219	1248	629	203	19	13	67
RG1D40T6N●	1622	457	76 or 102	1262	330	1437	1467	578	203	19	13	61
RG1D50T6N●	1622	508	76 or 102	1267	330	1437	1467	629	203	19	13	73

Propane models feature a Titanium Stainless Steel propane burner.

For Propane (LP) models change suffix "N" to "X".

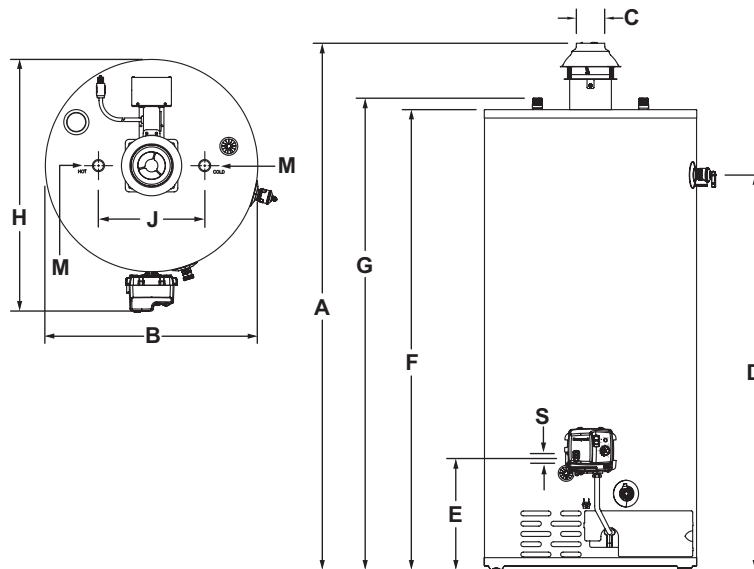
For 10 year models, change suffix from "6" to "10".

\* Based on manufacturer's rated recovery efficiency.

120V, 60Hz., 12 Amps.

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

- Models feature optional top T&P location and must be specified when ordering.



### General:

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 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 the potable side of this system. The potable side may NEVER be connected to any existing heating system or component(s) previously used with a non-potable water heating appliance.

**Customer Service / Sales: 1-866-690-0961 / 905-203-0600**  
**24/7 Technical Support: 800-334-3393 ■ Email [techserv@bradfordwhite.com](mailto:techserv@bradfordwhite.com)**

**Built to be the Best®**