

# High Efficiency eF Series®

## Residential Power Vent Gas Water Heater

### Features

- **Bradford White ICON System®**—Intelligent gas control that eliminates constant burning pilot, saving gas during standby periods (120 VAC). Proprietary algorithms provide tighter temperature differential and consistent water temperature levels up to 160°F (70°C). LED light indicates pilot function or 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.
  - Interior and exterior of the three, 2" (51mm) secondary heat exchanger tubes are protected with Vitraglas®.
- **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

- **Vertical, Dual-pass Heat Exchanger System**—Efficient 5" (127mm) helical-finned primary and three 2" (51mm) stainless steel baffled secondary heat exchangers. Vertical design avoids corrosion issues of less durable heat exchangers.
- **Self-priming Condensate Tee**—No need for trap installation; internal trap suits condensate pump use.
- **Power Vent**—Powerful, quiet design resists outside winds and allows longer vent lengths through roof or wall.
- **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 extend water heater life and simplify water line connections.
- **3/4" (19mm) NPT Side Connections.**
- **Factory installed Heat Traps**—Incorporates a flexible disk that reduces heat loss in piping and prevents noise.
- **Two Protective Anode Rods**—Provide added protection against corrosion for long-term, trouble-free service.
- **T&P Relief Valve**—Installed.
- **Low Restrictive Brass Drain Valve**—Durable tamper proof design.



Photo is of RC2PV50H6N



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

C1263-0725 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).

Model Number	Rated Nominal Volume		LP BTU/Hr. Input	First Hour Rating	Uniform Energy Factor	Recovery at 90°F Rise*				Model Number	Rated Nominal Volume	LP kW Input	First Hour Rating	Uniform Energy Factor	Recovery at 50°C Rise*			
	U.S. Gal.	Imp. Gal.				U.S. GPH	Imp. GPH	U.S. GPH	LP Imp. GPH						Liters/ Hour	LP Liters/ Hour		
RC2PV50H6N	50	42	76,000	76,000	120	0.80	91	77	93	77	RC2PV50H6N	190	22.0	22.0	455	0.80	344	352

Model Number	A Floor to Vent 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.	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.
RC2PV50H6N	67 <sup>7/16</sup>	24	2, 3, and 4	46 <sup>3/8</sup>	13 <sup>5/8</sup>	56 <sup>1/4</sup>	57	32 <sup>7/8</sup>	8	15 <sup>5/8</sup>	46 <sup>3/8</sup>	3/4	3/4	1/2	225

Model Number	A Floor to Vent 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.	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.
RC2PV50H6N	1713	610	51, 76, and 102	1178	346	1429	1448	835	203	397	1178	19	19	13	102

Propane models feature a Titanium Stabilized Stainless Steel propane burner.

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

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

Optional Condensate Neutralizer Kit: p/n A2123601.

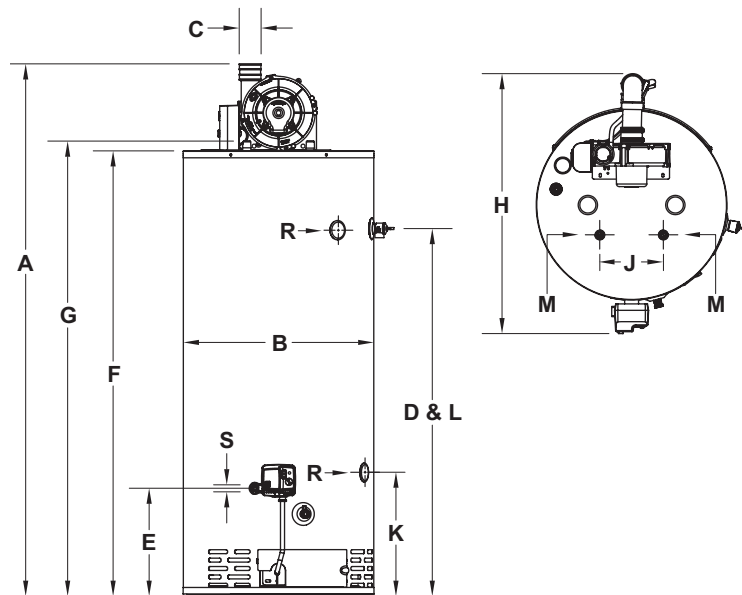
RC2PV50H6N	2" Vent Pipe	3" Vent Pipe	4" Vent Pipe
Max. Equivalent Length	†50 ft.	†120 ft.	†180 ft.
Min. Equivalent Length	7 ft.	15 ft.	15 ft.
Number of	1	45 ft.	115 ft.
90° Elbows	2	40 ft.	110 ft.
	3	35 ft.	105 ft.

RC2PV50H6N	51mm Vent Pipe	76mm Vent Pipe	102mm Vent Pipe
Max. Equivalent Length	†15.2m	†36.6m	†55.0m
Min. Equivalent Length	2.1m	4.6m	4.6m
Number of	1	13.7m	35.0m
90° Elbows	2	12.2m	33.6m
	3	10.7m	32.0m

Subtract 5ft. (1.5m) for each additional 90° elbow.

† For high altitude installations, consult the installation instructions.



### GENERAL:

All gas water heaters are certified at 300 PSI test pressure (2068 kPa) and 150 PSI working pressure (1034 kPa). All water connections are 3/4" NPT (19mm) on 8" (203mm) centers, all gas connections are 1/2" (13mm). All models design certified by CSA International, ANSI standard Z21.10.3 and peak performance rated.

**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.

*Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement.*



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