

# 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

**BRADFORD WHITE**  
**ICON**  
System

**VITRAGLAS**  
SUPERIOR PROTECTION SINCE 1981  
+  
**MICROBAN**

**Hydrojet**



### 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.

# High Efficiency eF Series® Residential Power Vent Gas Water Heater



## 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 | Nominal Gal. Capacity     |                   | DOE Rated Storage Volume Gal. | First Hour Rating        |                          | Uniform Energy Factor        | Recovery at 90°F Rise*     |                   |                          |                                    | Model Number                        | Nominal Liter Capacity | DOE Rated Storage Volume Liters | First Hour Rating    |                              | Uniform Energy Factor | Recovery at 50°C Rise* |             |           |           |
|--------------|---------------------------|-------------------|-------------------------------|--------------------------|--------------------------|------------------------------|----------------------------|-------------------|--------------------------|------------------------------------|-------------------------------------|------------------------|---------------------------------|----------------------|------------------------------|-----------------------|------------------------|-------------|-----------|-----------|
|              | U.S. Gal.                 | Imp. Gal.         |                               | BTU/Hr. Input            | LP BTU/Hr. Input         |                              | U.S. GPH                   | Imp. GPH          | U.S. GPH                 | LP Imp. GPH                        |                                     |                        |                                 | U.S. GPH             | Imp. GPH                     |                       | U.S. GPH               | LP Imp. GPH | U.S. Gal. | Imp. Gal. |
| RC2PV50H6N   | 50                        | 42                | 48                            | 76,000                   | 76,000                   | 120                          | 0.80                       | 91                | 77                       | 93                                 | 77                                  | RC2PV50H6N             | 190                             | 182                  | 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>9/8</sup>        | 56 <sup>1/4</sup>            | 57                         | 32 <sup>7/8</sup> | 8                        | 15 <sup>9/8</sup>                  | 46 <sup>9/8</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".

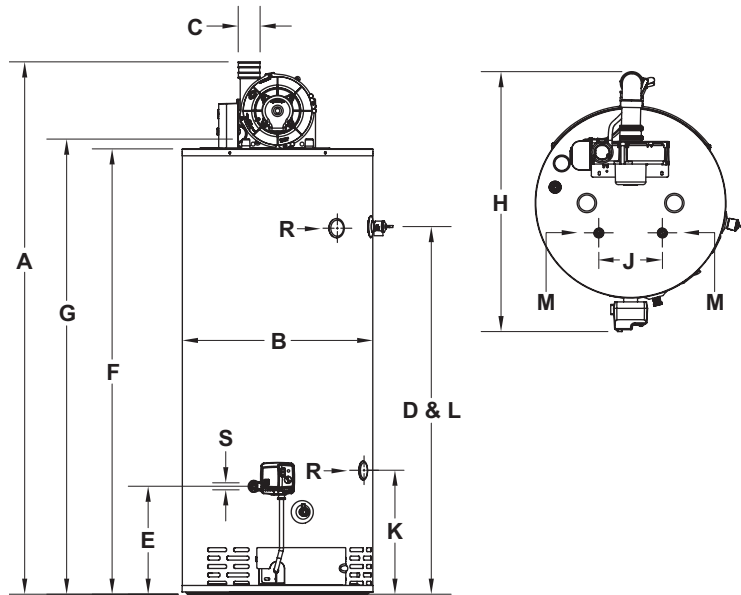
Uniform Energy Factor and First Hour Rating is based on the latest AHRI directory listings.

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.        | 175 ft.         |
| 2                      | 40 ft.         | 110 ft.        | 170 ft.         |
| 90° Elbows             |                |                |                 |
| 3                      | 35 ft.         | 105 ft.        | 165 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          | 53.3m           |
| 2                      | 12.2m          | 33.6m          | 52.0m           |
| 90° Elbows             |                |                |                 |
| 3                      | 10.7m          | 32.0m          | 50.3m           |

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 (formerly AGA/CGA), 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.*



Sales: 800-523-2931

24/7 Technical Support: 800-334-3393 • Email TechServ@bradfordwhite.com

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