

## Residential Atmospheric Vent High Input Gas Water Heater



Photo is of  
RG2100H6N

**FEATURING:**



**The Atmospheric Vent High Input 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 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.
- **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).
- **Side Connections**—3/4" (19mm) NPT tappings that allow easy connections for space heating applications (potable water only).
- **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** (except RG2100H6N).
- **Water Connections**—Factory-installed true dielectric fittings extend water heater life and simplify water line connections.
- **Hand Hole Cleanout**—Allows inspection of tank interior and facilitates the removal of sediment deposits (RG2100H6N models only).
- **Protective Magnesium Anode Rod**—Provides added protection against corrosion for long-term, trouble-free service.
- **4" (107mm) "Snap Lock" Draft Diverter.**
- **T&P Relief Valve**—Installed.
- **Low Restrictive Brass Drain Valve**—Durable tamper proof design.
- **Thermostatic Mixing Valve (ASSE Approved)**—Included with RG255H6N only.
- **NOx Emissions**—Less than 40 ng/J.

\*May vary by region



**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. Some states do not allow limitations on warranties. See complete copy of the warranty included with the heater.

# Residential Atmospheric Vent High Input Gas Water Heater

## High Input Models

NATURAL GAS AND LIQUID PROPANE GAS

Meet or exceed ASHRAE 90.1b (current standard) C.E.C. Listed  
Recovery efficiency ranging up to 80%

| Model Number | Nominal Gal. Capacity |           | DOE Rated Storage Volume (Gal.) | BTU/Hr. Input | LP BTU/Hr. Input | First Hour Rating (Gal.) | Uniform Energy Factor | Recovery at 90°F Rise* |          |             |             | Model Number | Nominal Liter Capacity | DOE Rated Storage Volume (Liters) | kW Input | LP kW Input | First Hour Rating (Liters) | Uniform Energy Factor | Recovery at 50°C Rise* |                 |
|--------------|-----------------------|-----------|---------------------------------|---------------|------------------|--------------------------|-----------------------|------------------------|----------|-------------|-------------|--------------|------------------------|-----------------------------------|----------|-------------|----------------------------|-----------------------|------------------------|-----------------|
|              | U.S. Gal.             | Imp. Gal. |                                 |               |                  |                          |                       | U.S. GPH               | Imp. GPH | LP U.S. GPH | LP Imp. GPH |              |                        |                                   |          |             |                            |                       | U.S. Liters/ Hour      | LP Liters/ Hour |
| RG250H6N     | 48                    | 40        | 46                              | 65,000        | 61,000           | 106                      | 0.63                  | 70                     | 35       | 66          | 55          | RG250H6N     | 182                    | 174                               | 19.0     | 17.9        | 401                        | 0.63                  | 265                    | 250             |
| RG255H6N     | 55                    | 46        | 55                              | 78,000        | 76,000           | 117                      | 0.61                  | 86                     | 72       | 84          | 70          | RG255H6N     | 208                    | 208                               | 22.9     | 22.3        | 443                        | 0.61                  | 326                    | 318             |
| RG275H6N     | 75                    | 63        | 72                              | 76,000        | 76,000           | 135                      | 0.59                  | 82                     | 68       | 82          | 68          | RG275H6N     | 284                    | 512                               | 22.3     | 22.3        | 477                        | 0.59                  | 310                    | 310             |
| RG2100H6N    | 100                   | 83        | 95                              | 85,000        | 88,000           | 157                      | 0.57                  | 92                     | 77       | 95          | 79          | RG2100H6N    | 379                    | 595                               | 24.9     | 25.7        | 519                        | 0.57                  | 348                    | 360             |

| Model Number | A Floor to Flue 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. |
|--------------|---------------------------|-------------------|-----------------|--------------------------|--------------------------|------------------------------|----------------------------|-------------|--------------------------|------------------------------------|-------------------------------------|-----------------------|--------------------------------|----------------------|------------------------------|
| RG250H6N     | 60 1/8                    | 22                | 4               | 49 15/16                 | 13                       | 56 5/8                       | 57 3/8                     | 25 1/2      | 11                       | 13 7/16                            | 49 15/16                            | 3/4                   | 3/4                            | 1/2                  | 189                          |
| RG255H6N     | 58 1/2                    | 24                | 4               | 48 1/8                   | 13 1/8                   | 54 3/4                       | 56 1/2                     | 27 1/4      | 8                        | 13 1/2                             | 48 1/8                              | 3/4                   | 3/4                            | 1/2                  | 210                          |
| RG275H6N     | 62 5/8                    | 26                | 4               | 51 7/8                   | 15                       | 59 5/8                       | 60 1/16                    | 29 1/4      | 11                       | 16 5/8                             | 51 7/8                              | 1                     | 3/4                            | 1/2                  | 240                          |
| RG2100H6N    | 71 1/2                    | 28 1/4            | 4               | 59 5/16                  | 15 3/16                  | 65 5/16                      | 66 1/2                     | 31 3/4      | 16                       | 17 5/8                             | 50 5/8                              | 1 1/4                 | 3/4                            | 1/2                  | 413                          |

| Model Number | A Floor to Flue 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. |
|--------------|---------------------------|-------------------|-----------------|--------------------------|--------------------------|------------------------------|----------------------------|-------------|--------------------------|------------------------------------|-------------------------------------|-----------------------|--------------------------------|----------------------|-----------------------------|
| RG250H6N     | 1527                      | 559               | 102             | 1268                     | 330                      | 1438                         | 1457                       | 648         | 279                      | 341                                | 1268                                | 19                    | 19                             | 13                   | 86                          |
| RG255H6N     | 1486                      | 607               | 102             | 1222                     | 333                      | 1391                         | 1435                       | 657         | 203                      | 343                                | 1222                                | 19                    | 19                             | 13                   | 95                          |
| RG275H6N     | 1591                      | 660               | 102             | 1318                     | 381                      | 1514                         | 1526                       | 743         | 279                      | 422                                | 1318                                | 25                    | 19                             | 13                   | 109                         |
| RG2100H6N    | 1816                      | 718               | 102             | 1507                     | 389                      | 1659                         | 1689                       | 806         | 406                      | 448                                | 1286                                | 32                    | 19                             | 13                   | 187                         |

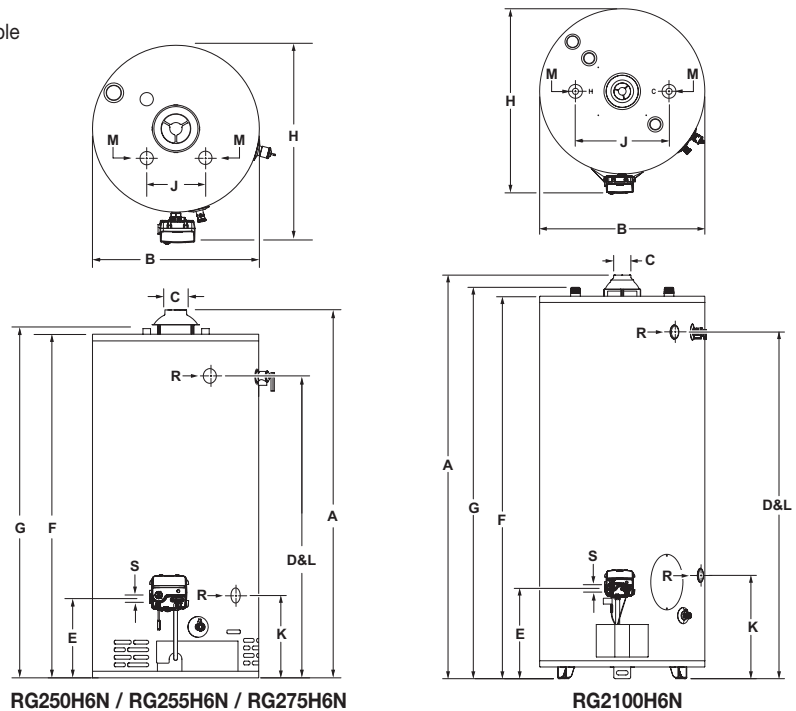
Propane models feature a Titanium Stainless Steel propane burner. For Propane (LP) models change suffix "N" to "X".

For 10 year models, change suffix from "6" to "10" (Not available on RG255H6N).

\* Based on manufacturer's rated recovery efficiency.

RG2100H6N model features hand hole cleanout.

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



### General:

Meets NAECA or EPACT Requirements, as applicable.

All gas water heaters are certified at 300 PSI test pressure (2068 kPa) and 150 PSI working pressure (1034 kPa). All gas connections are 1/2" (13mm). All models design-certified by CSA International (formerly AGA/CGA), ANSI Z21.10.3 and peak performance rated (except RG250H6N = ANSI Z21.10.1).

**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 —



For field service, contact your professional installer or local Bradford White sales representative.

Sales 800-523-2931 ■ Fax 215-641-1612

Technical Support 800-334-3393 ■ Email [techserv@bradfordwhite.com](mailto:techserv@bradfordwhite.com)

Warranty 800-531-2111 ■ Email [warranty@bradfordwhite.com](mailto:warranty@bradfordwhite.com)

International: Telephone 1-215-641-9400 ■ Email [international@bradfordwhite.com](mailto:international@bradfordwhite.com) / [www.bradfordwhite.com](http://www.bradfordwhite.com)

**Built to be the Best™**