

Infiniti Tankless[®] High Efficiency Residential (Condensing) Gas Water Heater



RTG-199HE-N

The Infiniti Tankless[®] Condensing Water Heater Model features:

- **Featuring the SRT[™] Scale Reduction Technology**—Significantly reduces the incidence of scale build-up known to result in poor performance, additional maintenance, and pre-mature component or product failure.
 - **Vertical Modulating Burner Design**—Ultra low NOx burner disperses heat evenly across the entire surface area, eliminating hot spots that can cause lime accumulation and material stress known to reduce product efficiency and longevity.
 - **Dual Fan Configuration**—Assists with the even distribution of heat throughout the heat exchanger, increasing efficiency and reducing scale accumulation.
 - **Internal Turbulators**—Create significant turbulence of water as it moves through the heat exchanger, greatly reducing the occurrence of scale buildup throughout the system.
 - **Dual Heat Exchanger**—Primary heat exchanger is comprised of copper and the secondary condensing heat exchanger is comprised of aluminum casing to be more advantageous against thermal stress. Both heat exchangers have all copper waterways to insure a high thermal conductivity.
- **Built-In Digital Control**—Temperature can be adjusted on the front control panel (100-140°F) (38°-60°C). Can store up to 10 previous error codes. Multiple indicators for ease of monitoring.
- **High Temperature Kit (Optional)**—Optional high temperature kit allows for a maximum setpoint up to 184°F (84°C).
- **Active Bypass**—Achieves superior temperature stability.
- **Cascading Kit (Optional)**—Up to 24 units can be connected together with ease.
- **Venting Flexibility**—Common venting, concentric “up & out”, twin pipe and concentric termination approved. PP, PVC, CPVC and ABS approved venting material (refer to I&O manual for details). Altitude tested up to 8000 ft. (2438m).
- **Gas Connection Flexibility**—1/2" (13mm), 3/4" (19mm), or 1" (25mm) connections permitted (refer to I&O manual for details).
- **Inlet Water Filter**—External access for easy maintenance.
- **Space Saving Installation**—Compact size for tight installations.
- **Built In Freeze Protection**—Protects water from freezing inside the appliance copper pipes. Activates automatically when the water heater is plugged in.
- **Interior and Exterior Installation Capability**—Outdoor installation requires optional outdoor kit. Recess box and pipe enclosure available.
- **Intelligent Cascading Kit (Optional)**—Up to 24 units can be connected together with ease.
- **Complies with the latest Ultra-Low NOx requirement (14 ng/J NOx limit).**



12-Year Limited Residential Heat Exchanger Warranty.

5-Year Limited Parts Warranty.

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.

Infiniti Tankless® Gas Water Heater

High Efficiency Model

NATURAL GAS AND LIQUID PROPANE GAS

| Model Number | Installation | BTU/Hr. Input | LP BTU/Hr. Input | Vent Conn. in. | GPM Flow Rate at °F Temperature Rise | | | Uniform Energy Factor Nat. and LP | Minimum Water Flow GPM | Maximum Temperature Setting |
|--------------|-------------------|----------------|------------------|----------------|--------------------------------------|------|------|-----------------------------------|------------------------|-----------------------------|
| | | | | | 45°F | 75°F | 90°F | | | |
| RTG-199HE-N | Indoor / Outdoor* | 19,900-199,000 | 19,900-199,000 | 3 | 8.3 | 5.0 | 4.2 | 0.92 | 0.5 | 140°F |

| Model Number | Installation | kW Input | LP kW Input | Vent Conn. mm. | LPM Flow Rate at °C Temperature Rise | | | Uniform Energy Factor Nat. and LP | Minimum Water Flow LPM | Maximum Temperature Setting |
|--------------|-------------------|------------|-------------|----------------|--------------------------------------|--------|------|-----------------------------------|------------------------|-----------------------------|
| | | | | | 25°C | 41.7°C | 50°C | | | |
| RTG-199HE-N | Indoor / Outdoor* | 5.8 - 58.3 | 5.8 - 58.3 | 76 | 31.4 | 18.8 | 15.7 | 0.92 | 1.9 | 60°C |

| Model Number | A Height in. | B Width in. | C Depth in. | D Intake/Exhaust Center Line in. | G Hot Water Outlet in. | H Cold Water Inlet in. | I Hot Water Outlet in. | J Gas Conn. in. | K Condensate Tee in. | L Condensate Tee in. | M Gas Conn. in. | Approx. Shipping Weight lbs. |
|--------------|---------------------------------|----------------------------------|---------------------------------|----------------------------------|--------------------------------|-------------------------------|--------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|------------------------------|
| RTG-199HE-N | 30 ⁹ / ₁₆ | 17 ¹³ / ₁₆ | 10 ⁷ / ₁₆ | 5 ³ / ₁₆ | 6 ⁹ / ₁₆ | 6 ¹ / ₈ | 6 ⁵ / ₁₆ | 2 ¹¹ / ₁₆ | 2 ³ / ₈ | 2 ⁵ / ₈ | 7 ¹ / ₂ | 74 |

| Model Number | A Height mm | B Width mm | C Depth mm | D Intake/Exhaust Center Line mm | G Hot Water Outlet mm | H Cold Water Inlet mm | I Hot Water Outlet mm | J Gas Conn. mm | K Condensate Tee mm | L Condensate Tee mm | M Gas Conn. mm | Approx. Shipping Weight kg. |
|--------------|-------------|------------|------------|---------------------------------|-----------------------|-----------------------|-----------------------|----------------|---------------------|---------------------|----------------|-----------------------------|
| RTG-199HE-N | 776 | 452 | 265 | 132 | 167 | 156 | 160 | 68 | 60 | 67 | 191 | 33.6 |

For Propane (LP) Models change suffix "N" to "X". Requires an electrical power supply from a 120VAC 60Hz., properly rated receptacle and must be properly grounded. Power supply cord provided. * Outdoor installation requires optional outdoor kit. Energy Factor is based on the latest AHRI directory listings. **Intelligent Cascading Kit:** Up to 24 units can be connected together with ease. **Part No. 7736502750** (One for each additional water heater).

| 2" Venting | Maximum allowable exhaust vent length | Maximum allowable intake vent length | Combined maximum allowable vent | Elbow Equivalency | |
|------------|---------------------------------------|--------------------------------------|---------------------------------|-------------------|---------|
| | | | | 90° | 45° |
| Twin pipe | 9.5 ft. | 9.5 ft. | 19.0 ft. | 5.0 ft. | 2.5 ft. |

| 3" Venting | Maximum allowable exhaust vent length | Maximum allowable intake vent length | Combined maximum allowable vent | Elbow Equivalency | |
|------------|---------------------------------------|--------------------------------------|---------------------------------|-------------------|---------|
| | | | | 90° | 45° |
| Twin pipe | 31.0 ft. | 31.0 ft. | 62.0 ft. | 5.0 ft. | 2.5 ft. |
| Concentric | 23.0 ft. | 23.0 ft. | 46.0 ft. | 5.0 ft. | 2.5 ft. |

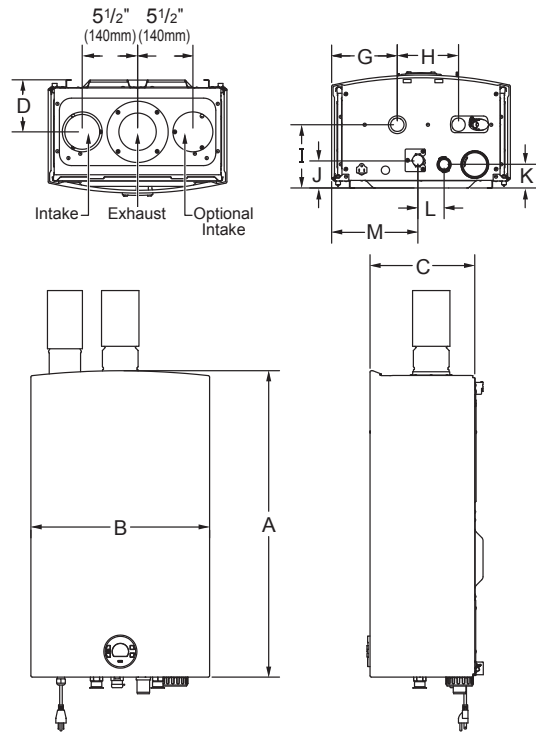
| 4" Venting | Maximum allowable exhaust vent length | Maximum allowable intake vent length | Combined maximum allowable vent | Elbow Equivalency | |
|------------|---------------------------------------|--------------------------------------|---------------------------------|-------------------|---------|
| | | | | 90° | 45° |
| Twin pipe | 63.0 ft. | 63.0 ft. | 126.0 ft. | 5.0 ft. | 2.5 ft. |
| Concentric | 43.0 ft. | 43.0 ft. | 86.0 ft. | 5.0 ft. | 2.5 ft. |

| 51 mm Venting | Maximum allowable exhaust vent length | Maximum allowable intake vent length | Combined maximum allowable vent | Elbow Equivalency | |
|---------------|---------------------------------------|--------------------------------------|---------------------------------|-------------------|---------|
| | | | | 90° | 45° |
| Twin pipe | 2.9 m. | 2.9 m. | 5.8 m. | 1.5 m. | 0.76 m. |

| 76 mm Venting | Maximum allowable exhaust vent length | Maximum allowable intake vent length | Combined maximum allowable vent | Elbow Equivalency | |
|---------------|---------------------------------------|--------------------------------------|---------------------------------|-------------------|---------|
| | | | | 90° | 45° |
| Twin pipe | 9.45 m. | 9.45 m. | 18.9 m. | 1.5 m. | 0.76 m. |
| Concentric | 7.0 m. | 7.0 m. | 14.0 m. | 1.5 m. | 0.76 m. |

| 102 mm Venting | Maximum allowable exhaust vent length | Maximum allowable intake vent length | Combined maximum allowable vent | Elbow Equivalency | |
|----------------|---------------------------------------|--------------------------------------|---------------------------------|-------------------|---------|
| | | | | 90° | 45° |
| Twin pipe | 19.2 m. | 19.2 m. | 38.4 m. | 1.5 m. | 0.76 m. |
| Concentric | 13.1 m. | 13.1 m. | 26.2 m. | 1.5 m. | 0.76 m. |

| Maximum number of 90° elbows | 2" (51 mm) Venting | 3" (76 mm) Venting | 4" (102 mm) Venting |
|------------------------------|--------------------|--------------------|---------------------|
| Twin pipe | 1 | 5 | 7 |
| Concentric | N/A | 4 | 7 |



General

All potable water connections are 3/4" (19mm) NPT. Gas connections are 3/4" (19mm). Recommended gas pipe size is 3/4" (19mm), for other gas pipe sizes please consult installation and operation manual.

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

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

Built to be the Best®