

Infiniti® GS

Tankless Gas Condensing Water Heater

Features

- **ENERGY STAR® Qualified.**
- **Certified Green Product™** by the Green Restaurant Association.
- **Residential and Commercial Application.**
- **Indoor and Outdoor Installation** (requires outdoor installation kit).
- **Stainless Steel Heat Exchanger.**
- **AHRI Certified.**
- **0.96 UEF.**



Additional Details

- **Ultra Low NOx System**—Complies with SCAQMD Rule 1146.2 for natural gas Low NOx Emissions of 14 ng/J or 20 ppm.
- **Low Lead Compliant with NSF/ANSI 372.**
- **Easy Installation Options:**
 - Compatible with 1/2" (12.7mm) Gas Pipe up to 24 ft. (7.32m).
 - Compatible with 2" (50.8mm) PVC Vent up to 60 ft. (18.3m) or 3" (76.2mm) up to 150 ft. (45.7m).
 - Vent with PVC, CPVC, Stainless Steel or Polypropylene.
 - Supports Direct Vent, Unbalanced Vent or Outdoor Vent Cap.
 - Field Gas Convertible with conversion kit purchased separately.*
- **Commercial Application Features:**
 - Temperature Setting—95°F (35°C) to 185°F (85°C).
 - Cascade up to 16 Units (mix up to 2 Infiniti® GR units).
 - Free Standing Rack System.
 - Easy plumbing manifold kit.
 - Common venting with PVC, CPVC, or Polypropylene up to 8 units.
- **Service Friendly Features:**
 - Air Filter and Inlet Water Filter—Mounted outside of cabinet for easy access and servicing.
 - Gasket Kit Included.

*Applicable to models with serial numbers beginning with F24 and later.



15-Year Residential Heat Exchanger Warranty / 5-Year Parts Warranty.

For more information on warranty, please visit www.bradfordwhite.com

For products installed in USA, Canada, and Puerto Rico. See complete copy of the warranty included with the heater for limitations.

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SPECIFICATIONS

These water heaters meet or exceed all or portions of (where applicable) the minimum efficiency requirements of ASHRAE Standard 90.1 (latest edition).

Model	Configuration	Gas Type	Max. Input		Min. Input		Turndown Ratio	Uniform Energy Factor
			MBH	kW	MBH	kW		
RTGS199N1	Standard	Natural Gas	199	58.3	13	3.8	15:1	0.96
RTGS199X1	Standard	Propane	199	58.3	13	3.8	15:1	0.96

Model	Water Connection Size	Gas Connection Size	Product Weight		Shipping Weight	
			lbs.	kg.	lbs.	kg.
RTGS199N1	3/4" NPT	3/4" NPT*	78	35	89	40
RTGS199X1	3/4" NPT	3/4" NPT*	78	35	89	40

* When using a reducer, compatible with 1/2" (13mm) Gas Pipe up to 24 ft. (7.3m).

DOMESTIC HOT WATER CAPACITY

Flow Rate at Degree Rise														Minimum Water Flow									
40°F		50°F		60°F		70°F		80°F		90°F		100°F			110°F		120°F		130°F		140°F		
GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM
9.7	36.7	7.8	29.5	6.5	24.6	5.6	21.2	4.9	18.5	4.3	16.3	3.9	14.8	3.5	13.2	3.2	12.1	3.0	11.4	2.8	10.6	0.5	1.9

CLEARANCES

Location	For Installation From Non-Combustible and Combustible Surfaces		Suggested Service Clearances	
	in.	cm.	in.	cm.
Top	10	25	18	46
Back	1	2.5	1	2.5
Front	4	10	40	101
Side	4	10	8	20
Bottom	10	25	24	61

ELECTRICAL DATA

Model	Power Supply		Power Consumption		
	Main Supply	Max Current	Standby	Operation	Anti Freeze
RTGS199N1	120V 60Hz	Less than 2A	2.7W	74W / 188W with external pump	53W
RTGS199X1	120V 60Hz	Less than 2A	2.7W	74W / 188W with external pump	53W

VENTING SYSTEM

2" (50.8mm) Combustion Air / Vent Pipe			3" (76.2mm) Combustion Air / Vent Pipe		
Maximum Equivalent Length*		Maximum Number of Elbows	Maximum Equivalent Length*		Maximum Number of Elbows
ft.	m.		ft.	m.	
60	18	5	150	45	8

* For each elbow, reduce maximum allowable length:

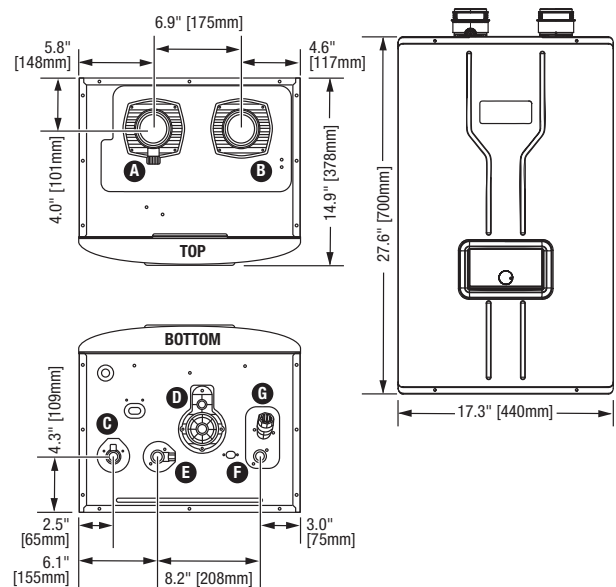
- 5 ft (1.5m) for each 3" 90° elbow
- 8 ft (2.4m) for each 2" 90° elbow
- 3 ft (0.9m) for each 3" 45° elbow
- 4 ft (1.2m) for each 2" 45° elbow

SAMPLE SPECIFICATION

Condensing gas tankless wall-mounted water heater(s) shall be Infiniti[®] GS Series model _____, which are certified by ETL to the latest edition of ANSI standard Z21.10.3/CSA 4.3. This water heater shall have a built-in digital control for temperature adjustment. Water heater(s) shall be designed to burn natural gas or propane. Water heater(s) with rated input of _____ BTU/Hr. (kW) shall have a nominal flow rate capacity of _____ GPM/GPH (LPM/LPH) at _____ °F (°C) rise. Water heater(s) shall have a 15:1 Turndown ratio. Water heater(s) is rated for 150 PSI (1034 kPa) working pressure and 300 PSI (2068 kPa) test pressure. Natural gas supply pressure shall be 3.5" (89mm) to 10.5" (267mm) WC and propane gas supply pressure shall be 8.0" (203mm) to 14.0" (356mm) WC. The minimum input for natural gas and propane shall be 13,000 BTU/Hr. (3.8kW). Water heater(s) shall have a dual heat exchanger with stainless steel primary and secondary. Water heater(s) shall have 3/4" (19mm) inlet gas connection with flexibility of utilizing a 1/2" (12.7mm), 3/4" (19mm) or 1" (25.4mm) gas line. Water heater shall have a filtered 3/4" (19mm) inlet and 3/4" (19mm) outlet water connections. Indoor installation model shall have the water connection on the bottom of the heater. Outdoor installation should be available with the outdoor installation kit. Water heater(s) shall be vented with 2" (50.8mm) PVC/CPVC/polypropylene vent pipe at a distance not to exceed 60 ft. (18.3m) (or equivalent) with each elbow equal to 8 ft. (2.4m) of pipe length or 3" (76.2mm) PVC/CPVC/ polypropylene vent pipe at a distance 150 ft. (45.7m) (or equivalent) with each elbow equal to 5 ft. (1.5m) of pipe length. Water heater(s) shall have 15-year Heat Exchanger warranty and 5-year Parts warranty (8-year Heat Exchanger and 5-year Parts for commercial use) per Bradford White Warranty.

DIMENSIONAL DATA

Standard Model RTGS199N1 and RTGS199X1		
Location	Description	Size
A	Exhaust	2" PVC
B	Air Intake	2" PVC
C	Gas	3/4" NPT
D	Condensate	1/2" NPT
E	Hot Water Connection	3/4" NPT
F	Cold Water Connection	3/4" NPT
G	Cold Water Filter	—



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