



Infiniti® GR Tankless Gas Condensing Water Heater With Recirculation



FEATURING:





This model features:

- ENERGY STAR® Qualified.
- Certified Green Product™ by the Green Restaurant Association.
- Residential and Commercial Application.
- Stainless Steel Heat Exchanger.
- Bottom Water Connections.
- Built-in Recirculation Pump and Dedicated Recirculation Connection.
- Temperature Setting 95°F (35°C) to 185°F (85°C).
- AHRI Certified.
- 0.96 UEF.
- 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) (Subject to local code).
 - 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 ULC-S636 PVC, CPVC, Stainless Steel or Polypropylene.
 - Supports Direct Vent or Unbalanced Vent Cap.
- Commercial Application Features:
 - Cascade up to 2 Infiniti® GR units or mix up with up to 14 additional Infiniti® GS units.
 - Free Standing Rack System.
 - Common venting with Polypropylene up to 8 units.
 - Easy plumbing manifold kits.
- Service Friendly Features:
 - Air Filter and Inlet Water Filter—Mounted outside of cabinet for easy access and servicing.
 - Gasket Kit Included.

Sample Specification

__, which are certified by ETL to the latest edition of ANSI standard Condensing gas tankless wall-mounted water heater(s) shall be Infiniti® GR Series model ___ Z21.10.3/CSA 4.3. This water heater shall have a built-in digital control for temperature adjustment. This water heater shall have a built-in recirculation pump and dedicated recirculation connection. 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 3/11 (19mm) inlet gas connection with flexibility of utilizing a 1/211 (12.7mm), 3/11 (19mm) or 111 (25.4mm) gas line. Water heater shall have a filtered %" (19mm) inlet and %" (19mm) outlet water connections. Indoor installation model shall have the water connection on the bottom of the heater. 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 limited Heat Exchanger warranty and 5-year limited Parts warranty (8-year Heat Exchanger and 5-year Parts for commercial use) per Bradford White Limited Warranty.

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





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.

Infiniti® GR Tankless Gas Condensing Water Heater Models -



SIZING DATA

Model	Configuration	Gas Type	Max. MBH	Input kW	Min. MBH	Input kW	Turndown Ratio	Uniform Energy Factor
RTGR199N1	Recirculation	Natural Gas	199	58.3	13	3.8	15:1	0.96
RTGR199X1	Recirculation	Propane	199	58.3	13	3.8	15:1	0.96
Model	Water Connection	Gas Connection	Produc	t Weight	Shipping	g Weight		

Model	Water Connection Size	Gas Connection Size	Production lbs.	t Weight kg.	Shipping lbs.	g Weight kg.
RTGR199N1	3/4" NPT	3/4" NPT	85	39	96	44
RTGR199X1	3/4" NPT	3/4" NPT	85	39	96	44

DOMESTIC HOT WATER CAPACITY

Flow Rate at Degree Rise									Mini	mum													
40)°F	50)°F	60)°F	70	° F	80	°F	90	°F	100)°F	110)°F	120	0°F	130	0°F	140	0°F	Water	Flow
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	Non-Combustible	ation From and Combustible aces	Suggested Service Clearances				
	in.	cm.	in.	cm.			
Тор	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		Supply	Power Consumption							
	Main Supply	Max Current	Standby	Operation	Anti Freeze					
RTGR199N1	120V 60Hz	Less than 2A	2.7W	188W	117W					
RTGR199X1	120V 60Hz	Less than 2A	2.7W	188W	117W					

VENTING SYSTEM

2" (50.8)	nm) Combus	tion Air / Vent Pipe	3" (76.2mm) Combustion Air / Vent Pipe				
	Equivalent gth*	Maximum Number of Elbows		Equivalent gth*	Maximum Number of Elbows		
ft.	m.	5	ft.	m.	0		
60	18	J	150 45		0		

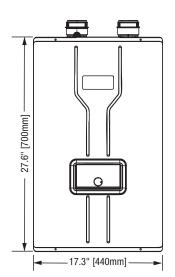
* For each elbow, reduce maximum allowable length:

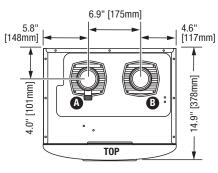
5 ft (1.5m) for each 3" 90° elbow $\,$ 8 ft (2.4m) for each 2" 90° elbow

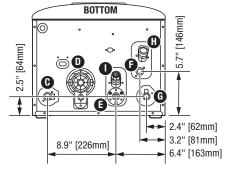
3 ft (0.9m) for each 3" 45° elbow 4 ft (1.2m) for each 2" 45° elbow

DIMENSIONAL DATA

DIMENSIONAL DATA									
Recirculation Model RTGR199N1 and RTGR199X1									
Location	Description Size								
Α	Exhaust	2" PVC							
В	Air Intake	2" PVC							
C	Hot Water Connection	3/4" NPT							
D	Condensate	1/2" NPT							
E	Recirculation Return Connection	3/4" NPT							
F	Cold Water Connection	3/4" NPT							
G	Gas	3/4" NPT							
Н	Cold Water Filter	_							
1	Recirculation Return Filter	_							







Customer Service / Sales: 1-866-690-0961 / 905-203-0600
24/7 Technical Support: 800-334-3393 • Email techserv@bradfordwhite.com