

RESIDENTIAL



■ FLEXIBLE VENTING OPTIONS

- Concentric or Schedule 40 PVC/CPVC
- Direct Vent (Concentric and Twin Pipe)
- Non-Direct Vent (Room Air)
- Common Vent (Direct Vent and Room Air)
- Maximum Equivalent Vent Lengths:

Twin Pipe (PVC/CPVC and PP)

Vent Sizes	2 in. (51 mm)	3 in. (76 mm)
Vent Lengths	75 ft (23 m)	150 ft (46 m)


Concentric

Vent Sizes	2 in. X 4 in.	3 in. X 5 in.
Vent Lengths	75 ft (23 m)	150 ft (46 m)

■ EASE OF INSTALLATION AND SERVICEABILITY

- **Smart-Sense™**: Adaptive gas valve technology - No gas conversion kit required. Gas Conversion Label for Propane included with unit.
- **Versa-Vent™**: Outdoor vent cap (RXOVC) adapts to any SENSEI® RX Series model for outdoor installation.
- **Smart Connect™**: Allows an installer to connect your phone or tablet to SENSEI® RX Series Via Bluetooth® using Rinnai Central™ app.
- **Quick-Flush™**: Provides an efficient flushing procedure to make periodic preventive maintenance a simple task to perform.

SUPER-HIGH-EFFICIENCY (CONDENSING) TANKLESS WATER HEATER

Installation Type	Internal (Indoor) Residential Applications External (Outdoor) Residential Applications with Outdoor Vent Cap
Model Numbers	RX199i (REU-NB3237FF-US) RX180i (REU-NB2934FF-US) RX160i (REU-NB2530FF-US) RX130i (REU-NB2024FF-US)
Approved Gas Types	Natural and Propane
Efficiency	 UEF: 0.98 (RX199i, RX180i) 0.97 (RX160i, RX130i)
High Altitude Approved	Up to 10,100 ft (3,078 m)
Water Flow Control	Water Flow Sensor, Electronic Water Control and Bypass Control
Controller	Standard: Integrated Controller Optional: MC-195T-US, MC-601-BK/W
Certifications	AHRI, ANSI Z21.10.3, CSA 4.3, and ENERGY STAR®

Warranty

- Heat Exchanger: 15 years or 12,000 operation hours, whichever occurs first
- All Other Parts and Components: 5 years
- Reasonable Labor: 5 Years* *Requires product to be registered within 90 days of installation or labor warranty defaults to 1 year

Safety Devices

Flame Failure - Flame Rod, Boiling Protection, Combustion Fan RPM Check, Over Current - Glass Fuse, Remaining Flame (OHS) and Automatic Frost Protection

Included with Purchase

Tankless Water Heater, Wall Mounting Bracket, Vent Screens (x2), Vent Screen, Screws (x2), Self-Tapping Screws (x4), Gas Conversion Label for Propane, and Installation and Operation Manual

Additional Features

- Mobile Home Certified
- 1/2 in. (13 mm) Gas Line Compatible
- Ultra Low NOx
- Complies with South Coast Air Quality Management District 14 ng/J or 20 ppm NOx Emission Levels
- Tankless Rack System™ Compatible
- EZ Connect—2RX Units as System



CERTIFIED TO ANSI Z21.10.3 — CSA 4.3

TECHNICAL SPECIFICATIONS

SPECIFICATION		RX199i	RX180i	RX160i	RX130i
Dimensions - w, h, d		18.5 in. x 25.8 in. x 11.4 in. (470 mm x 654 mm x 290 mm)			
Minimum Gas Consumption Btu/h		15,000			
Maximum Gas Consumption Btu/h		199,000	180,000	160,000	130,000
Flow Rate ¹ (Min - Max)		0.13 - 11.0 GPM (0.5 - 42 L/min)	0.13 - 10.0 GPM (0.5 - 38 L/min)	0.13 - 9.0 GPM (0.5 - 34 L/min)	0.13 - 7.1 GPM (0.5 - 27 L/min)
Weight		55 lb (25 kg)	55 lb (25 kg)	54 lb (24 kg)	54 lb (24 kg)
Sound Level		49 dB	49 dB	48 dB	48 dB
Electrical	Normal	98 W	76 W	73 W	47 W
	Standby	1.3 W			
	Freeze Protection	142 W			
	Max Current	4 Amps			
	Fuse	10 Amps			
Temperature		<ul style="list-style-type: none"> Minimum: 98° F (37° C) Default Maximum: 120° F (49° C) Default 140° F (60° C) With Parameter Adjustment 			
By-Pass Flow Control		Electronic			
Gas Supply Pressure ²		<ul style="list-style-type: none"> Natural: 3.5 in. w.c. - 10.5 in. w.c. Propane: 8.0 in. w.c. - 13.5 in. w.c. 			
Ignition System		Direct Electronic Ignition			
Electronic Connections		<ul style="list-style-type: none"> Appliance: AC 120 Volts, 60Hz. Temperature Controller: DC 12 Volts (Digital) 			
Water Supply Pressure		<ul style="list-style-type: none"> Minimum: 15 PSI (Recommended 50 PSI for max performance) Maximum: 150 PSI 			
Service Connections		<ul style="list-style-type: none"> Gas Supply: 3/4 in. (19 mm) NPT Cold Water Inlet: 3/4 in. (19 mm) NPT Hot Water Outlet: 3/4 in. (19 mm) NPT Condensate Drain: 1/2 in. (13 mm) NPT 			
Clearances		<ul style="list-style-type: none"> Top: 2 in. (51 mm)* Bottom/Ground: 12 in. (305 mm) Front: 0 in.** Back: 0 in. Sides: 2 in. (51 mm)*** Vent: 0 in. 			

* 0 in. from vent components.

** Clearance for servicing is 24 in. (610 mm) in front of water heater.

*** Add 0.25 in. (6.35 mm) for recess box.

¹ Activation flow rate may vary slightly depending on the temperature setting and the inlet water temperature.

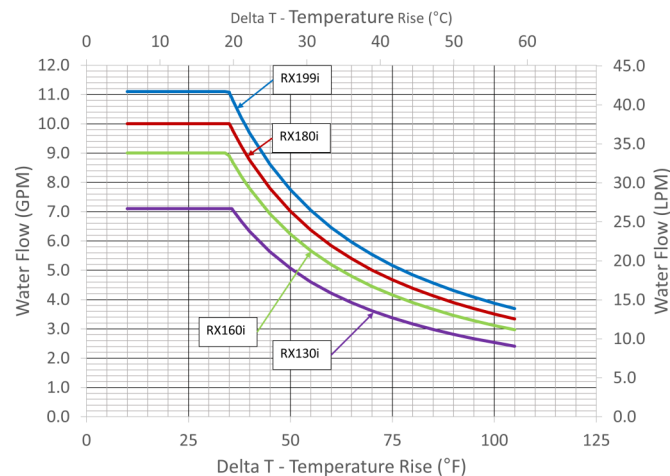
² The maximum gas supply pressure must not exceed the value specified by the manufacturer.

Rinnai products are continually being updated and improved; therefore, specifications are subject to change without prior notice.

WATERFLOW CURVE

Flow curves apply only to incoming water temperatures of 70° F (21° C) or less.

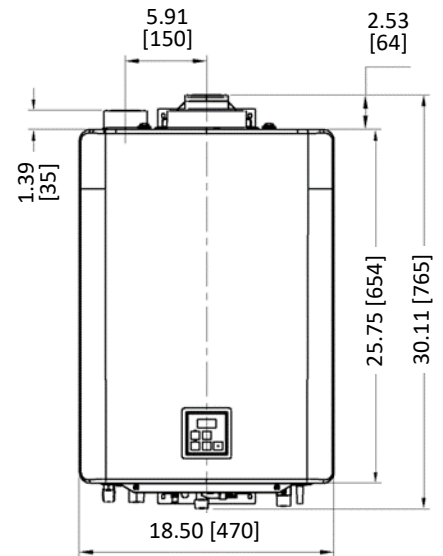
For incoming water temperatures greater than 70° F (21° C), please contact Rinnai.



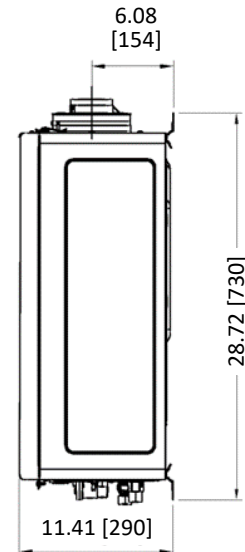
DIMENSIONS

in. (mm)

FRONT



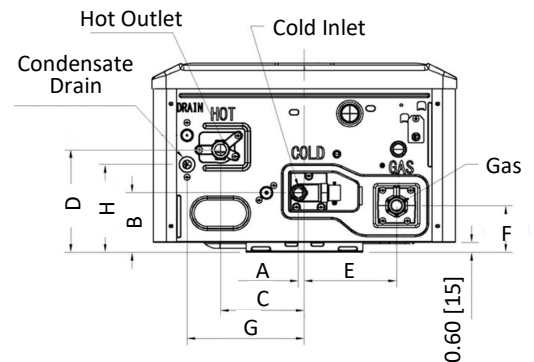
SIDE



Vent Connection:

2 in. (51 mm) nominal
PVC/CPVC/PP or
3 in./5 in. Concentric.

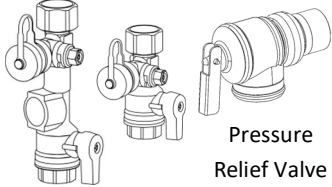

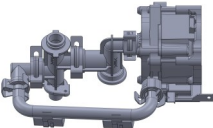
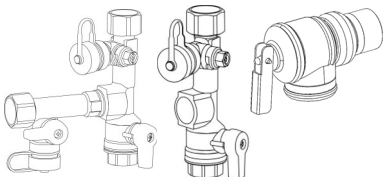




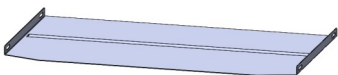
BOTTOM



Connection		in.	mm
COLD	A	0.37	9
	B	3.60	91
HOT	C	5.10	130
	D	6.20	158
GAS	E	5.60	142
	F	2.83	72
DRAIN	G	7.13	181
	H	5.32	135

OPTIONAL ACCESSORIES

Numerous optional accessories are available for purchase for your Rinnai Tankless Water Heater. Listed below are some commonly purchased accessories. For a complete list of accessories, visit www.rinnai.us or www.rinnai.ca. For questions, or to purchase an accessory, contact your local Rinnai dealer/distributor or Rinnai Customer Care at 1-800-621-9419.

Product	Product Description	Image
Isolation Valve Kit with PRV Part #: MIVK-T-LW	Isolation valves provide the ability to isolate the water heater from the structure's plumbing system and allow quick and easy access to flush the heat exchanger. Rinnai strongly recommends use of these valves for service and maintenance.	 Pressure Relief Valve
Outdoor Vent Cap* Part #: RXOVC	Allows the RX Series tankless water heater to be installed outdoors.	
Internal Add-on Recirculation Conversion Kit* Part #: RX2RXPCCK	Allows a no-pump model to be converted to a pump model.	
Dedicated Return and Isolation Valve Kit* Part #: 107000639	Valve kit including tee, drain valve, pressure relief valve, check valve and isolation valves (cold and hot) to simplify set-up of a dedicated recirculation line.	
Retrofit Door for RX in RGB-CTWH-4* Part #: 104000335	With this retrofit door, RGB-CTWH-4 can accommodate the RX Series tankless water heater.	
Retrofit Door for RX in RGB-CTWH-3, 2, 1* Part #: 104000336	With this retrofit door, RGB-CTWH-3, 2 or 1 can accommodate the RX Series tankless water heater. .	
Recess Box* Part #: RGBCTWHRX	Allows the RX Series tankless water heater to be recessed into a wall. A vent adapter is provided with the recess box.	
Pipe Cover* Part #: PCD11-SHS	Encloses the piping below the water heater for aesthetic purposes.	
Bottom Plate for Pipe Cover* Part #: 109001364	Use with Pipe cover (Part #: PCD11-SHS)	

* New for SENSEI® RX/CX Series Tankless Water Heaters

