

RX199i, RX180i, RX160i, RX130i

CONDENSING TANKLESS WATER HEATER

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)

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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)			
	Vent Sizes Vent Lengths Concentric Vent Sizes	Vent Sizes 2 in. (51 mm) Vent Lengths 75 ft (23 m) Concentric Vent Sizes 2 in. X 4 in.			

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
- 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

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











CERTIFIED TO ANSI Z21.10.3 — CSA 4.3

TECHNICALSPECIFICATIONS						
	SPECIFICATION	RX199i	RX180i	RX160i	RX130i	
Dime	ensions - 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)	
Weig	ht	55 lb (25 kg)	55 lb (25 kg)	54 lb (24 kg)	54 lb (24 kg)	
Soun	d Level	49 dB	49 dB	48 dB	48 dB	
	Normal	98 W	76 W	73 W	47 W	
ca	Standby	1.3 W				
Electrical	Freeze Protection	142 W				
Ele	Max Current	4 Amps				
	Fuse	10 Amps				
Temperature		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 S	Supply Pressure ²	 Natural: 3.5 in. w.c 10.5 in. w.c. Propane: 8.0 in. w.c 13.5 in. w.c. 				
Igniti	on System	Direct Electronic I	gnition			
Elect	ronic Connections	Appliance: AC 120 Volts, 60Hz. Temperature Controller: DC 12 Volts (Digital)				
Wate	• Minimum: 15 PSI (Recommended 50 PSI for max performance) • Maximum: 150 PSI			performance)		
Servi	ce Connections	 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 				
Clear	• Top: 2 in. (51 mm)*		. (51 mm)***			

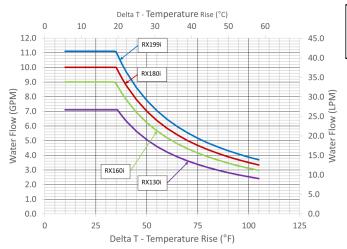
- 0 in. from vent components.
- ** Clearance for servicing is 24 in. (610 mm) in front of water heater. *** Add 0.25 in. (6.35 mm) for recess box.

temperature.

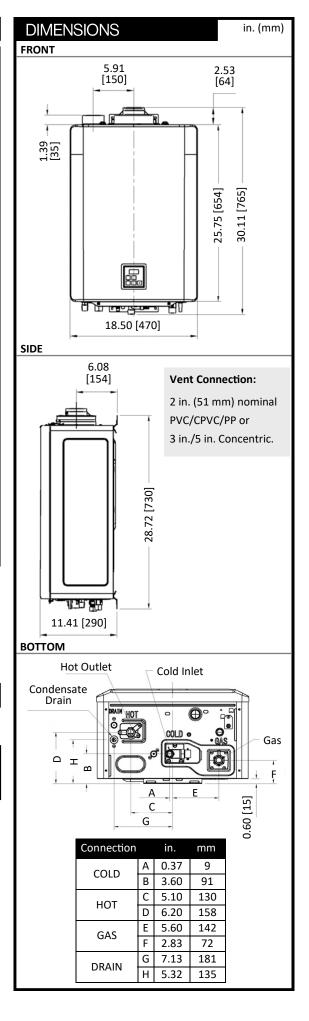
² The maximum gas supply pressure must not exceed the value specified by the manufacturer.
Rinnai products are continually being updated and improved; therefore, specifications are subject to change without prior notice.

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.



NOTE: Maximum flow rates may vary based on set temperature, Delta T and altitude.



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

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 #: RX2RXPCK	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.	funn Katatun Jung
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

Product	Product Description	Image
Wireless Module* Part #: RWM200	Controls On-Demand recirculation, remotely adjust temperatures, and communicates with the service provider portal. The module and MC-195T-US controller are not compatible accessories and must not be installed together.	Threat .
BLE Push Button* Part #: RPB200	Mounted in a convenient location, such as a kitchen faucet or bathroom sink, the BLE push button works without the Wireless Module to operate the RX Series tankless water heater recirculation system by pushing the button.	Rinnai.
EZConnect™ Cable* Part #: REU-EZC-3	Electronically connects two water heaters and allows them to function as one hot water source.	
Gas Conversion Kit* Part #: 104000330	Converts the tankless water heater gas type. Kit contains gas conversion manual and conversion rating plate label (adheres to water heater to display new gas type).	Water Heater Certified for use in the United States and Canada Models. [R2100] Conventional Rel [00000033] for [MATIRIAL] Clas Clas Supply Pressure Min. [37W.C. (0.2878-9) Max. [0.57W.C. (0.2889-9) Marticol Pressure Min. [37W.C. (0.2878-9) Max. [0.57W.C. (0.2889-9) Input Risting Refer to input rate information on the existing rating paths Input Risting Refer to input rate information on the existing rating paths [100 Min. [100
		Sample Rating Plate Label
Additional Controllers Part #: MC-601-BK, MC-601-W, or MC-195T-US	Additional controllers are available for user convenience.	
Condensate Neutralizer Part #: 804000074	Neutralizes the condensate generated by the water heater.	
ScaleCutter Part #: 103000038	Filters and reduces the amount of scale entering the water heater allowing for greater water heater longevity.	(5 · 5)
ScaleCutter Refill Cartridge Part #: 103000039	Refill cartridge for the ScaleCutter filter assembly.	
OPU Switch Part #: REU-OPU3	Normally Closed (NC) switch that connects to the tankless water heater PC Board. When used with a hydronic air handler, the switch gives priority to domestic hot water during high demand.	O Banara Dece
Single Unit Standoff Bracket* Part #: 109001376	The single unit standoff bracket anchors the tankless water heater to the wall with 1.5 inches (38 mm) of clearance between the water heater and wall.	- 8 -
Drain Down Kit Part #: 104000285	Provides freeze protection by immediately draining the water heater upon loss of power.	
Room Air Screen Part #: 108000104 for 2 in. (51 mm) Part #: 108000105 for 3 in. (76 mm)	Recommended room air screen for use in room air applications only.	

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