RX199i, RX180i, RX160i, RX130i
CONDENSING TANKLESS WATER HEATER

RESIDENTIAL



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	AHRI CERTIFIED. UEF: 0.98 (RX199i, RX180i) 0.97 (RX160i, RX130i)
High Altitude Approved	Up to 10,200 ft (3,109 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) and Self-Tapping Screws (x4)

Additional Features

- Mobile Home Certified
- Ultra Low NOx
- Tankless Rack System™ Compatible
- 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

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.
- **Versa-Vent™**: Outdoor vent cap adapts to any SENSEI™ RX Series model for outdoor installation.
- **Smart Connect™**: Allows you 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.

C US LOW LEAD CONTENT · SANITATION · CERTIFIED · DESIGN CERTIFIED · ENERGY STAR

OPTIONAL ACCESSORIES

CERTIFIED TO ANSI Z21.10.3 — CSA 4.3

Description	Part Number	Description	Part Number	Description	Part Number
Isolation Valves and PRV	MIVK-T-LW	Pipe Cover*	PCD11-SHS	Controllers	MC-601-BK/W, MC-195T-US
Outdoor Vent Cap*	RXOVC	Recess Box for SENSEI™ RX Series*	RGBCTWHRX	Condensate Neutralizer	804000074
Internal Add-on recirc. Pump Conversion Kit*	RX2RXPCK	Bottom Plate for Pipe Cover*	109001364	Scale Cutter	103000038
Dedicated Return with Isolation Valves and PRV*	107000639	Wireless Module*	RWM200	Scale Cutter Refill	103000039
Retrofit Door for RX in RGB-CTWH-4*	104000335	EZConnect Cable*	REU-EZC-3	OPU Switch	REU-OPU3
Retrofit Door for RX in RGB-CTWH-3, 2, 1*	104000336	Gas Conversion Kit (Labels Only)*	104000330	Leak Detection Kit	RXLeakKit

SENSEI™ RX TECHNICAL SPECIFICATIONS

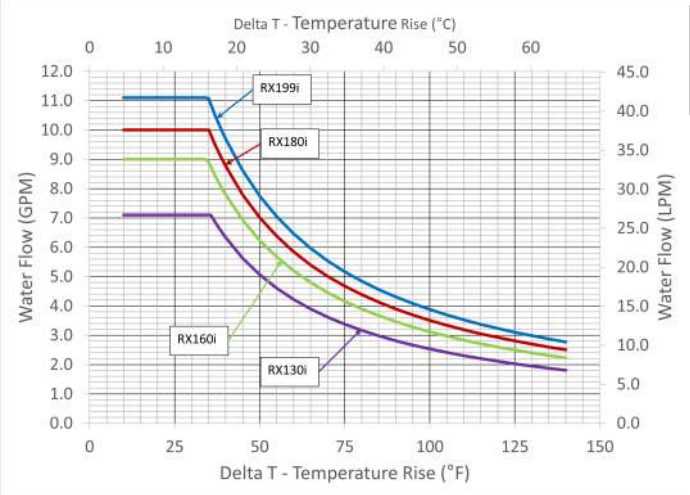
SPECIFICATION		RX199i	RX180i	RX160i	RX130i
Dimensions - w, h, d		18.5 in. x 25.8 in. x 11.4 in. (470 mm x 654 mm x 290 mm)			
Minimum Gas Consumption Btu/h		15,000			
Maximum Gas Consumption Btu/h		199,000	180,000	160,000	130,000
Flow Rate[1] (Min - Max)		0.13 - 11.0 GPM (0.5 - 42 L/min)	0.13 - 10.0 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		• 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]		• 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		• Appliance: AC 120 Volts, 60Hz. • Temperature Controller: DC 12 Volts (Digital)			
Water Supply Pressure		• Minimum: 15 PSI (Recommended 50 PSI for max performance) • Maximum: 150 PSI			
Service 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			
Clearances		• 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.

SENSEI™ RX WATER FLOW 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.

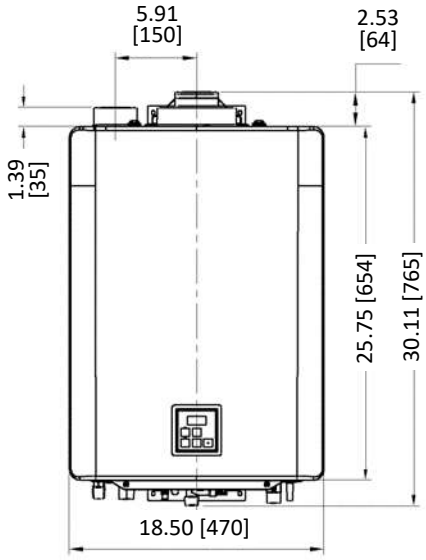


NOTE: Maximum flow rates may vary based on set temperature, Delta T and altitude.

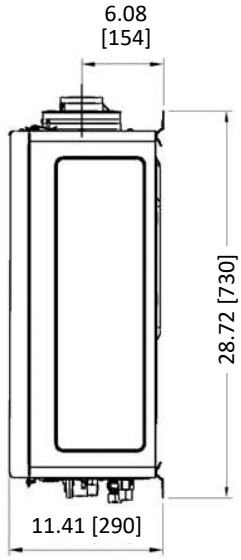
SENSEI™ RX DIMENSIONS

in. (mm)

FRONT



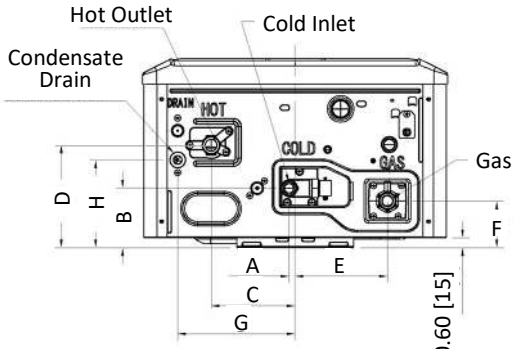
SIDE



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

©2024 Rinnai America Corporation. Rinnai America Corporation continually updates materials, and as such, content is subject to change without notice.
Local, state, provincial, federal and national fuel gas codes must be adhered to prior to and upon installation.
100000883
2/2024