

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.
- **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.

■ OPTIONAL ACCESSORIES

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*	RX2RXPKK	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

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 10,200 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



CERTIFIED TO ANSI Z21.10.3 — CSA 4.3

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		<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.

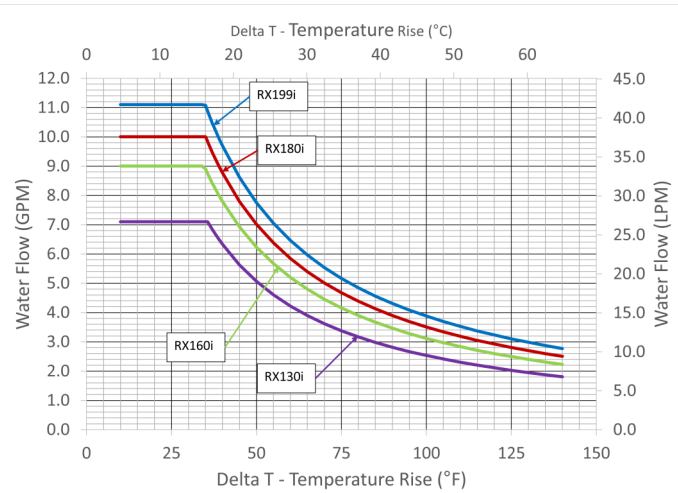
*** Add 0.25 in. (6.35 mm) for recess box.

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.

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.

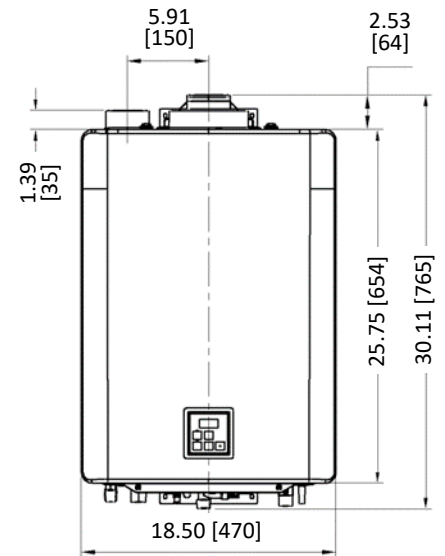


NOTE: Maximum flow rates may vary based on set temperature, Delta T and altitude.

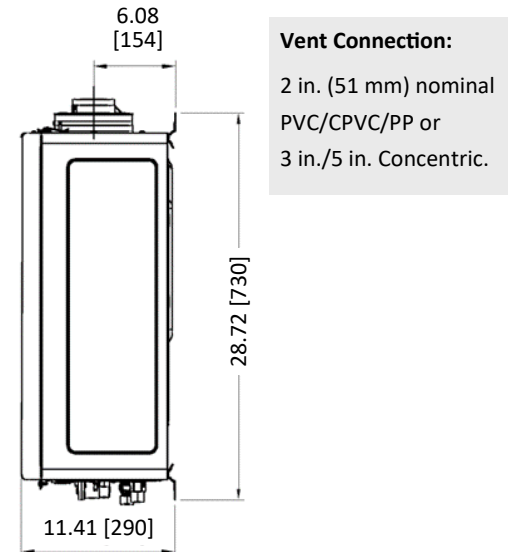
SENSEI™ RX DIMENSIONS

in. (mm)

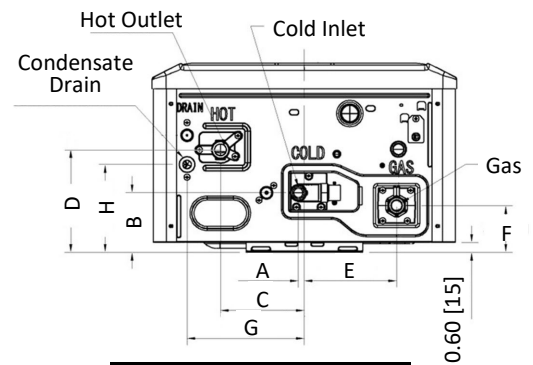
FRONT



SIDE



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