Rinnai

RXP199i, RXP160i 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)

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

Installation Type	Internal (Indoor) Residential Applications External (Outdoor) Residential Applications with Outdoor Vent Cap		
Model Numbers	RXP199i (REU-NBP3237FF-US) RXP160i (REU-NBP2530FF-US)		
Approved Gas Types	Natural and Propane		
Efficiency	UEF: 0.98 (RXP199i) 0.97 (RXP160i)		
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), Screws (x2), Self-Tapping Screws (x4) and Thermal Bypass Valve

Additional Features

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





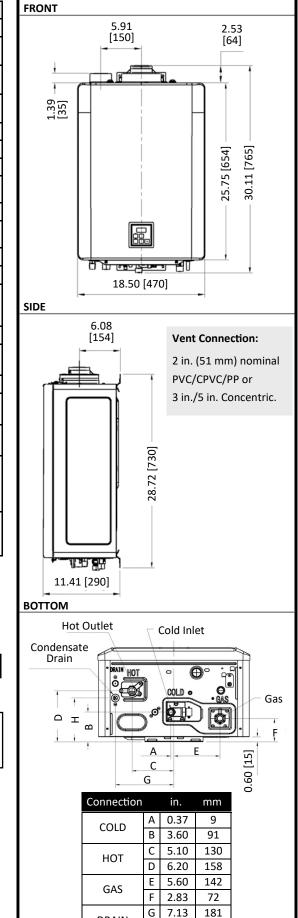
CERTIFIED TO ANSI Z21.10.3 - CSA 4.3

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
Dedicated Return with Isolation Valves and PRV*	107000639	Bottom Plate for Pipe Cover*	109001364	Scale Cutter	103000038
Retrofit Door for RX in RGB-CTWH-4*	104000335	Wireless Module*	RWM200	Scale Cutter Refill	103000039
Retrofit Door for RX in RGB-CTWH-3, 2, 1*	104000336	Recirculation Push Button*	RPB200	OPU Switch	REU-OPU3
Gas Conversion Kit (Labels Only)*	104000330	EZConnect Cable*	REU-EZC-3	Leak Detection Kit*	RXLeakKit

*New—for SENSEI[™] RX/CX Series Water Heaters

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SENSEI [™] RXP TECHNICAL SPECIFICATIONS						
	SPECIFICATION	RXP199i	RXP160i			
Dim	nensions - 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	160,000			
	w Rate ¹ n - Max)	0.13 - 11.0 GPM (0.5 - 42 L/min)	0.13 - 9.0 GPM (0.5 - 34 L/min)			
We	ight	58 lb (26 kg)	57 lb (26 kg)			
Sou	ind Level	49 dB	48 dB			
	Normal	98 W	73 W			
_	Normal with Pump Operation	170 W	149 W			
trica	Standby	1.3 W				
Electrical	Freeze Protection	174 W				
	Max Current	4 Amps				
	Fuse	10 Amps				
Temperature		 Minimum: 98° F (37° C) Default (Crossover Mode: 120° F (49° C)) 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				
	 Appliance: AC 120 Volts, 60Hz. Temperature Controller: DC 12 Volts (Digital) 		ts (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. 				



DRAIN

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SENSEI[™] RXP DIMENSIONS

in. (mm)

0 in. from vent components.

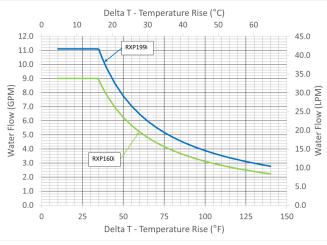
Clearance for servicing is 24 in. (610 mm) in front of water heater. Add 0.25 in. (6.35 mm) for recess box.

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

SENSEI[™] RXP WATER FLOW CURVE

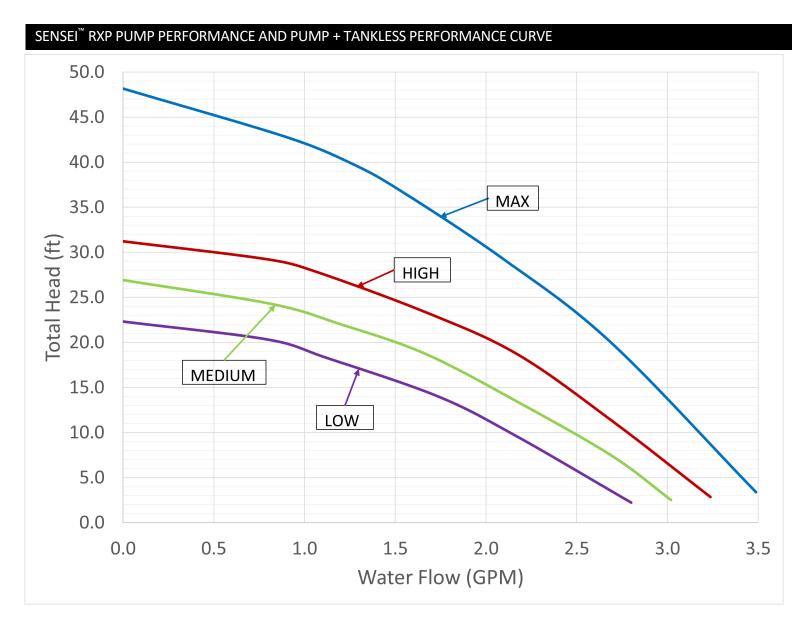
Flow curves apply only to incoming water temperatures of 70° F (21° C) or less. For incoming water temperatures greater than 70° F (21° C), please contact Rinnai.



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

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Recirculation Pump Control

Internal Multi-Speed DC Pump

Maximum Recirculation Pipe Lengths

- Smart-Circ.™ "learns" users' hot water patterns to activate recirculation.
- Manual schedule selection is available with Accessory controllers (MC-195T or Wi-Fi module).

Integrated pump allows for recirculation through a dedicated return line or crossover with thermal bypass valve.

- 400 equivalent feet for 3/4 in. pipe diameter
- 100 equivalent feet for 1/2 in. pipe diameter

Take equivalent elbow lengths into consideration when calculating pipe length.

For dedicated return lines: Total length includes both hot water supply and dedicated return lines.

Cross-over mode: Total length includes both hot water supply and cold water piping length from the tankless water heater to the thermal bypass valve. Cross-over mode requires the use of a thermal bypass valve (included).