

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
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

SUPER-HIGH-EFFICIENCY (CONDENSING) TANKLESS WATER HEATER

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
- 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
- EZConnect—1 RXP and 1 RX as System



CERTIFIED TO ANSI Z21.10.3 — CSA 4.3

SENSEI™ RXP TECHNICAL SPECIFICATIONS

SPECIFICATION	RXP199i	RXP160i	
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	160,000	
Flow Rate ¹ (Min - Max)	0.13 - 11.0 GPM (0.5 - 42 L/min)	0.13 - 9.0 GPM (0.5 - 34 L/min)	
Weight	58 lb (26 kg)	57 lb (26 kg)	
Sound Level	49 dB	48 dB	
Electrical	Normal	98 W	
	Normal with Pump Operation	170 W	
	Standby	1.3 W	
	Freeze Protection	174 W	
	Max Current	4 Amps	
	Fuse	10 Amps	
Temperature	<ul style="list-style-type: none"> • 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	<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.

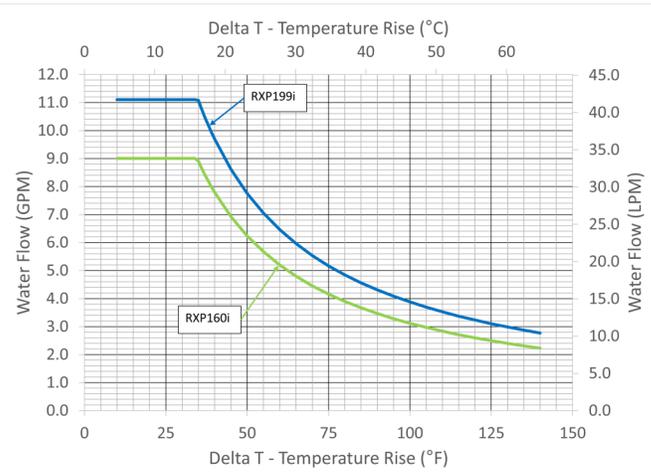
*** Add 0.25 in. (6.35 mm) for recess box.

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™ 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.

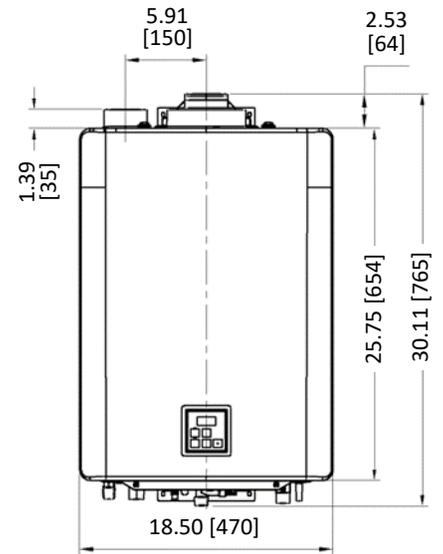


NOTE: Maximum flow rates may vary based on set temperature, Delta T and altitude.

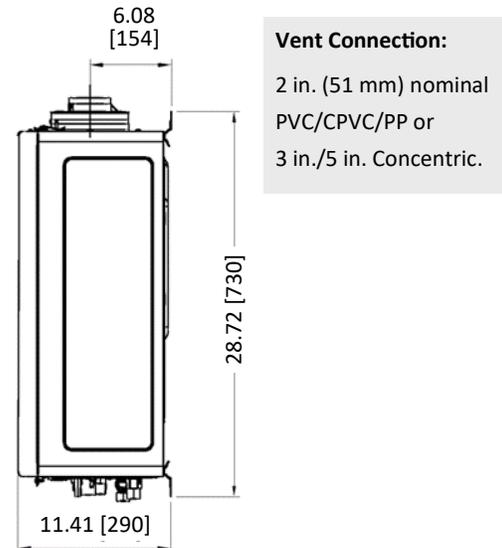
SENSEI™ RXP DIMENSIONS

in. (mm)

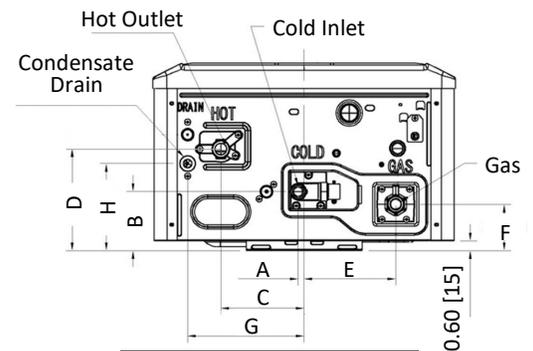
FRONT



SIDE

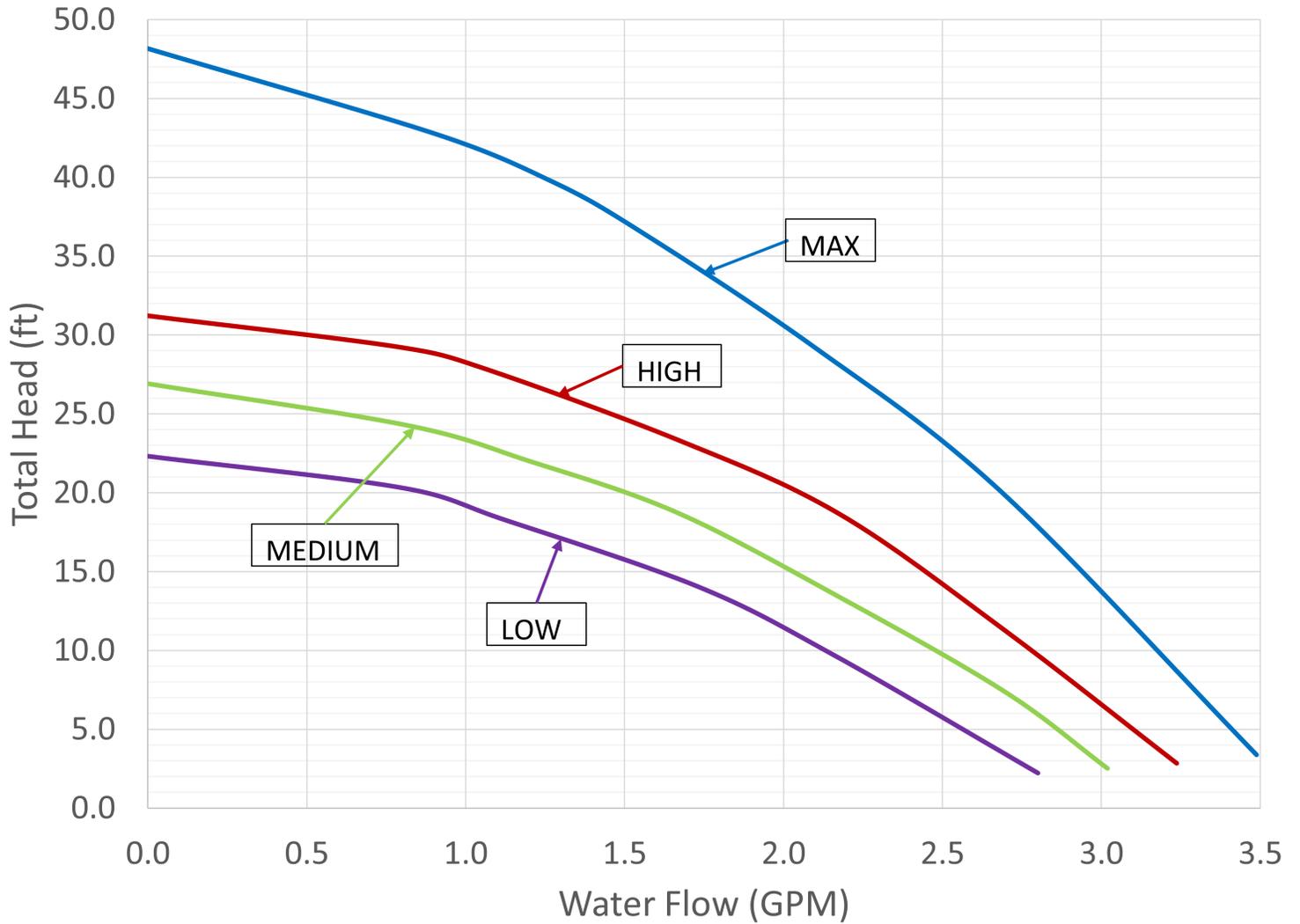


BOTTOM



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

SENSEI™ RXP PUMP PERFORMANCE AND PUMP + TANKLESS PERFORMANCE CURVE



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).