

Rinnai®

SENSEI[®] RX

S E R I E S

Built for the PRO, by the PRO™

Featuring the RXP Model with Built-in Pump and

Smart-Circ™
Intelligent Recirculation™



0.98

UEF
(Uniform
Energy
Factor)



Featuring the RXP Model with Built-in Pump and Smart-Circ™ Intelligent Recirculation™



RINNAI 
CENTRAL™

Download our App for Quick
Easy access to Key Features

Built for the PRO, by the PRO™

SENSEI®RX Series featuring Smart-Circ™ Intelligent Recirculation™, makes it easier than ever for PROs to sell, install, and service the best-performing condensing tankless water heater Rinnai has ever made. Now you can provide the latest in lifestyle comfort, smart-design, and built-in technology by installing the premium, unlimited hot water experience that only **SENSEI®RX SERIES** can offer.

SMART SENSE™

Rinnai's proprietary Adaptive Gas Valve Technology adjusts to either Natural Gas or Liquid Propane Gas for optimal combustion - **no conversion kit required.**

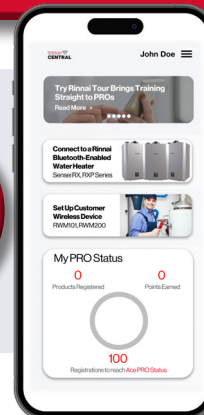


SENSEI®RX Series Offers Natural Gas, Propane Gas, Indoor and Outdoor Capability all in One Model

Stock your warehouse and vehicle with the one tankless model that really does it all!

SMART CONNECT™

Allows you to connect your smart phone or tablet to the SENSEI®RX SERIES via Bluetooth®. Use the Rinnai Central™ App for quick, simplified tankless water heater set-up and registration, significantly reducing your install time.



QUICK FLUSH™

Provides an efficient flushing procedure to make periodic preventive maintenance a simple task to perform.



VERSA-VENT™

Outdoor Vent Cap (RXOVC) easily adapts to any SENSEI®RX Series model for outdoor installations providing the ultimate in SKU flexibility (sold separately).



SENSEI® RXP

Condensing Tankless Water Heater • Pump

Smart - Circ™
Intelligent Recirculation™

Model shown: RXP199IN



0.26
GPM
minimum
activation
rate

Superior Performance Requires Superior Components™

Rinnai designs and manufactures most of the key components that go into the **SENSEI® RX SERIES**, allowing for consistent control of quality, backed by the industry's best warranty. That's why more consumers and PROs choose Rinnai over any tankless brand.

Improved Turbo Fan™

- Supports **longer vent runs** and more flexible venting options
- Venting capacity:
 - **Up to 75 ft (23 m)** with **2" / 4" concentric** and **2" PVC/CPVC/PP**
 - **Up to 150 ft (46 m)** with **3" / 5" concentric** and **3" PVC/CPVC/PP**

Enhanced Primary and Secondary Heat Exchangers

- More efficient heat transfer + improved durability
- **Robust tube design** with **444 stainless steel** for added strength and heat resistance
- Minimal joints for smoother performance
- High-efficiency standard: **0.98 or 0.97 UEF** (on all models)

4-Speed DC Recirculation Pump

- **Quieter** operation in a compact design
- Higher head pressure for improved performance

Internal Pump Kit (Retrofit)

- Adds Rinnai advanced recirculation to non-pump models

Weights 58 lbs (26.3 kg) (10 lbs (4.5 kg) lighter than previous models)



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SENSEI[®] RX SERIES

Built for the PRO, by the PRO[™]

Set-up and Registration has Never Been More Convenient

1 Download and Open the Rinnai Central[™] App

Open and create your **PRO Account** today to gain instant access to product information, training resources, and set-up procedures... **plus much more!**

RINNAI
CENTRAL[™]



SCAN ME



SCAN ME



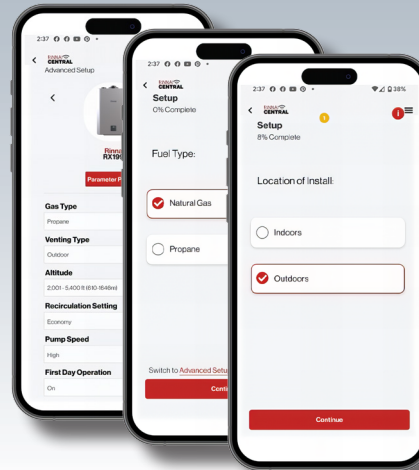
2 Initiate Set-up (Wi-Fi not required)

Push the **Bluetooth** button on the tankless controller with the **Rinnai Central[™]** app open to **SMART[®]CONNECT** to your device.



Use the **Quick Set-Up** screen for speedy unit configuration without removing the cover!

Use **PRO-files[™]** to pre-load and save all parameter settings in app for future installs.

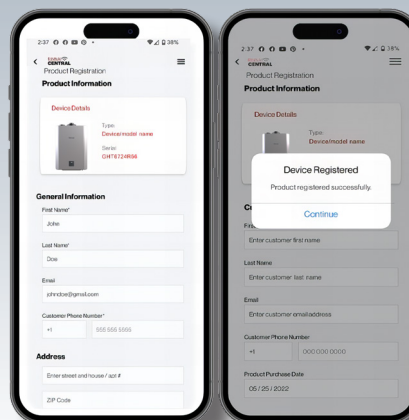
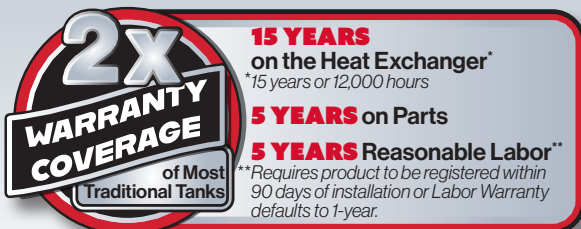


Fuel Type
SMART[®]SENSE[™] lets you select the fuel source (no orifice change required).

Indoors / Outdoors
VERSA-VENT[™] cap allows any unit to install outdoors (purchased separately)

3 Register the unit

Maximize the **Rinnai Warranty** by registering the SENSEI[®] RX.



Lifestyle Comfort Options with SENSEI® RXP - Recirculation models

4a Recirculation Schedule Based on Usage Patterns

Smart-Circ™ Extraordinary Convenience Out of the Box

Smart-Circ™ starts learning users' hot water usage patterns from day one and automatically schedules recirculation to provide hot water when it's needed.

Using the previous seven days of hot water usage, Smart-Circ™ continuously updates the recirculation schedule.

The benefit? Less waiting for hot water at the tap, helping reduce water waste while delivering greater everyday comfort and convenience.

Users enjoy hot water during regular demand periods while saving energy, water and money.



DAY 1 - Learning Hot Water Usage Every Day



You're all set! Hot water will be ready for you based on the previous days' schedule.
As hot water events are added throughout the week, scheduled recirculation adjusts accordingly.

DAYS 2 thru 7 - Hot Water Ready



4b Recirculation Schedule Based on User Control

Hot Water Recirculation Scheduling at Your Fingertips



After downloading the **Rinnai Central™** app and connecting to the **RWM200 Wireless Module** (sold separately), Homeowners can experience the ultimate in accessibility, convenience, and control:

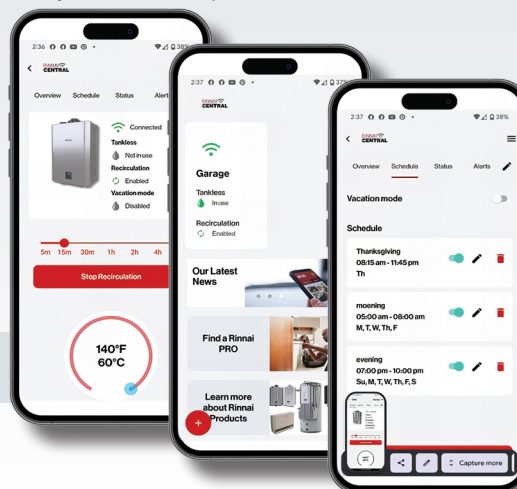
- Activate recirculation schedule (pump-enabled models only)
- Adjust Water temperature
- Check real-time water heater status
- Receive maintenance alerts
- Activate vacation mode to save energy when away for extended periods



RWM200 Wireless Module

Smart Home Automation Smart Home Routines for Convenient Control

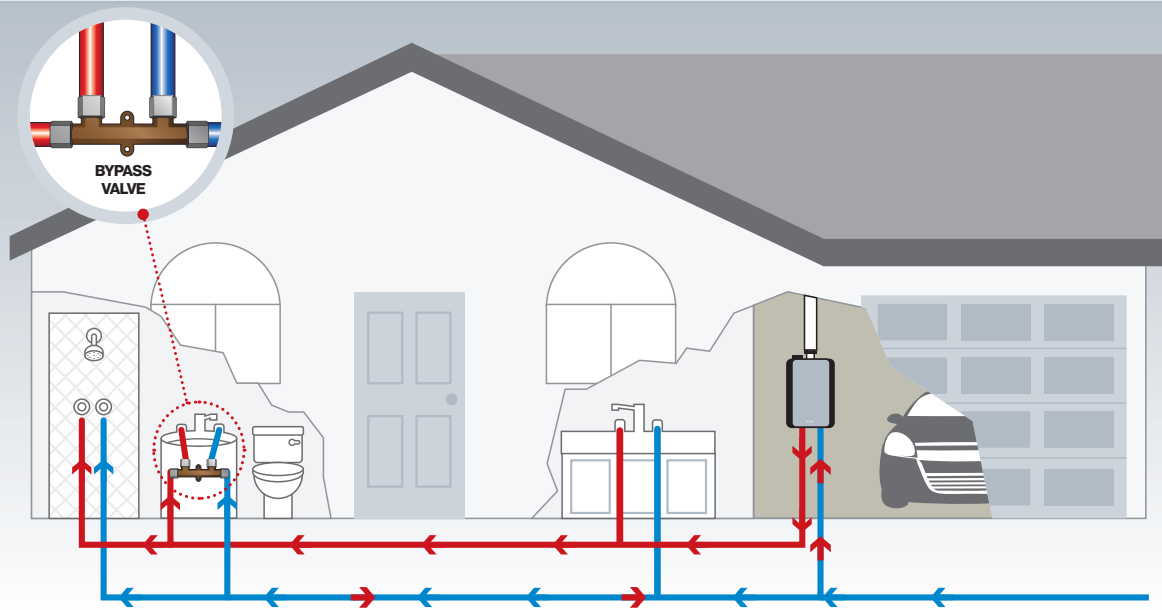
- Voice Activation with **amazon alexa**
- Adjust Water Temperature
- Turn on/off Recirculation
- Schedule Recirculation
- Push Button available for On-Demand Recirculation*



* Required by Title 24, California Energy Commission.
Push Button can connect to the RXP tankless water heater directly or via the RWM200 module.

Turn Any Plumbing System into a Recirc System

Regardless of whether an existing plumbing system has a dedicated return line, faster hot water can be enjoyed using a Thermal Bypass Valve accessory when installing tankless models featuring a built-in pump with recirculation technology.

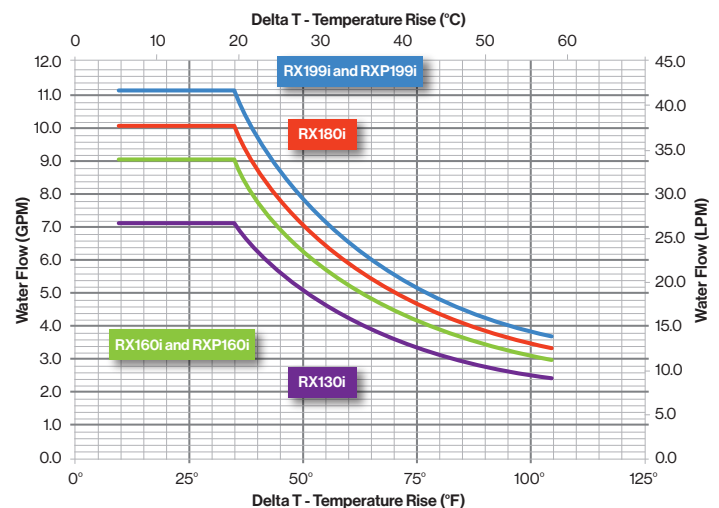


Flow Rate vs DELTA T Table and Chart

Model	RXP199	RXP160	RX199	RX180	RX160	RX130
Max. BTUH	199,000	160,000	199,000	180,000	160,000	130,000
Recovery Efficiency*	97%	97%	97%	97%	97%	97%
Temperature Rise (°F)	GPM	GPM	GPM	GPM	GPM	GPM
105	3.7	3.0	3.7	3.3	3.0	2.4
100	3.9	3.1	3.9	3.5	3.1	2.5
95	4.1	3.3	4.1	3.7	3.3	2.7
90	4.3	3.5	4.3	3.9	3.5	2.8
85	4.6	3.7	4.6	4.1	3.7	3.0
80	4.8	3.9	4.8	4.4	3.9	3.2
75	5.2	4.2	5.2	4.7	4.2	3.4
70	5.5	4.5	5.5	5.0	4.5	3.6
67	5.8	4.7	5.8	5.2	4.7	3.8
65	6.0	4.8	6.0	5.4	4.8	3.9
60	6.5	5.2	6.5	5.8	5.2	4.2
55	7.0	5.7	7.0	6.4	5.7	4.6
50	7.8	6.2	7.8	7.0	6.2	5.1
45	8.6	6.9	8.6	7.8	6.9	5.6
40	9.7	7.8	9.7	8.8	7.8	6.3
35	11.1	8.9	11.1	10.0	8.9	7.1
30	11.1	9.0	11.1	10.0	9.0	7.1
25	11.1	9.0	11.1	10.0	9.0	7.1
20	11.1	9.0	11.1	10.0	9.0	7.1
15	11.1	9.0	11.1	10.0	9.0	7.1
10	11.1	9.0	11.1	10.0	9.0	7.1

*Recovery Efficiency ratings per AHRI Directory.

Water Flow Curve



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



Unit shown with Versa Vent™ outdoor cap and pipe cover.

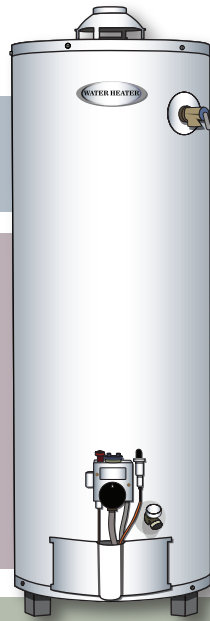
Tankless vs Tank

Rinnai®

High Hot Water Usage

Every year American home owners spend \$400 to \$600, on average, to heat water for bathing, washing & cleaning.

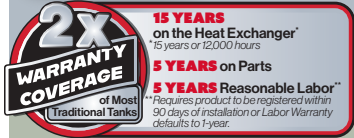
64 Gallons (242.3 Liters) per day adds up to **23,000 Gallons (87,065 Liters)** per year



TANKLESS WATER HEATERS
Continuous hot water heater system

VS
Over 20 Years

TANK WATER HEATERS
Traditional hot water storage tank system



• EFFICIENCY •

Tankless water heaters are **much more energy efficient**; no hot water is stored. **40% more efficient than tanks.***

Tank water heaters are **susceptible to standby heat loss** and a continuously heated tank means water is heated all day long, 24/7, for **less efficiency.**

• COST •

Tankless water heaters have **lower operational costs** and **last much longer than tank water heaters**, which can offset installation costs.

Tank water heaters have a lower purchase price but are **more expensive to operate** since they must keep water heated 24/7.

• LIFESPAN •

With periodic maintenance, tankless water heaters can **last for 20+ years.**

Traditional tank water heaters have a **lifespan of 8-10 years.**

• SIZE • SPACE •

Tankless water heaters are about the **size of a small suitcase 31" x 18" x 12"** (787 x 457 x 305 mm) **weigh 64 lbs (29 kg)** and are wall mounted for significant space savings.

Traditional tanked water heaters are installed in a **closet sized space** and require much more area than tankless units, **stand 59" tall (1,499 mm)** and **weigh 120 lbs (54 kg).**

• BOTTOM LINE •

- Up to 40% more energy efficient*
- Compact space saving design
- Longer lifespan
- Unlimited hot water capacity

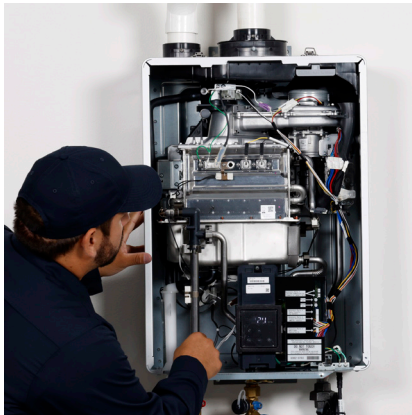
- Heats water even when not being used
- Takes up valuable space
- Shorter lifespan
- 40-60 Gallon (151-227 liters) per day

Be the PRO in the know

There are a lot of tankless myths out there being spread by people unfamiliar with the technology. Luckily, plenty of PROs know about these misconceptions and are here to tell the Tankless Truths.

Tankless TRUTHS

To learn about all the **Tankless Truths**, Click or Scan the QR Code.



Rinnai LMS Class Enrollment Guide



Training Help
Email: training@rinnai.us



Rinnai LMS Class Schedules



North American Ground Water Temperature Map

SENSEI[®]RX

SERIES

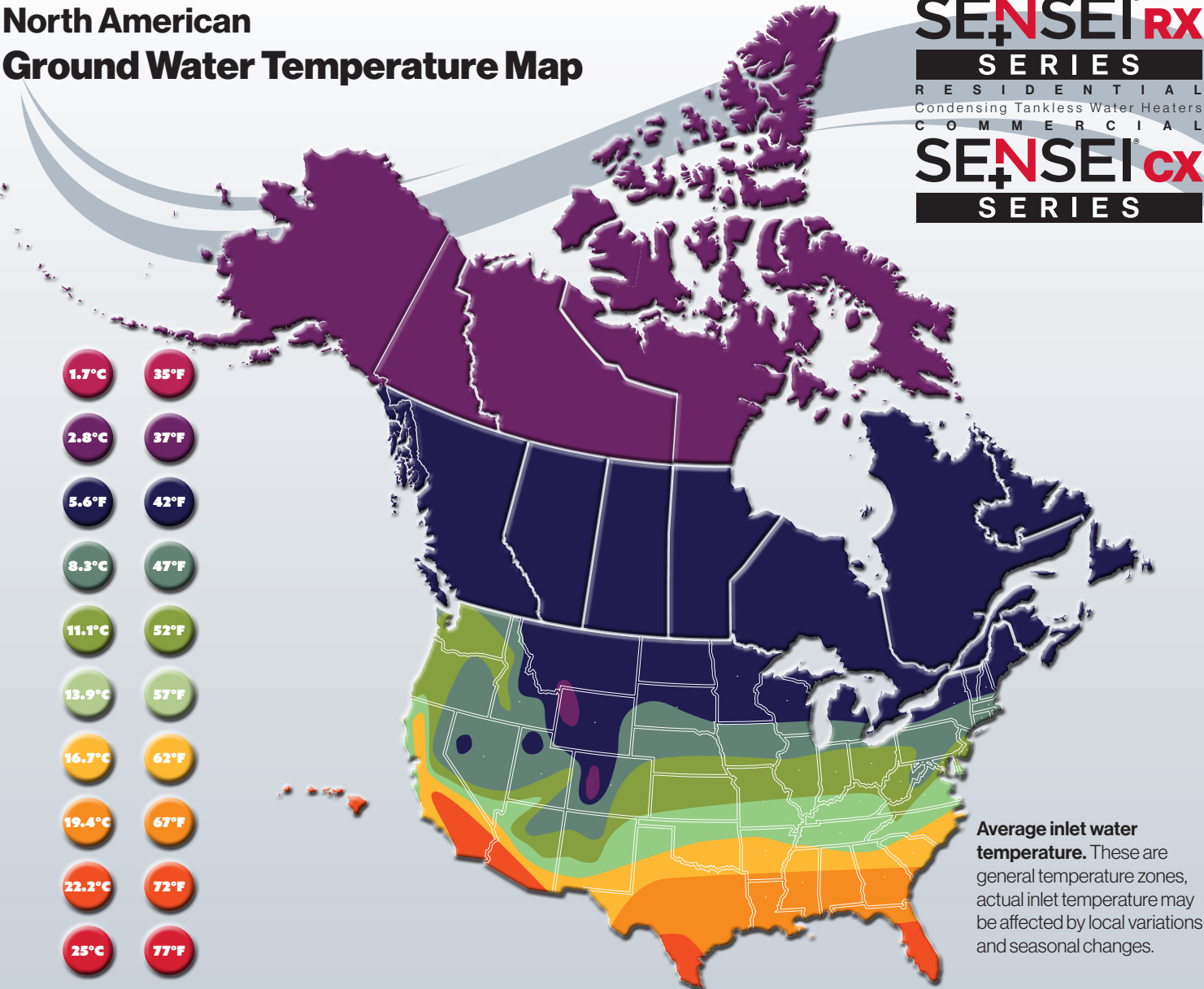
RESIDENTIAL

Condensing Tankless Water Heaters

COMMERCIAL

SENSEI[®]CX

SERIES



Use your location on the map to correlate with legend for average ground water temperature in the U.S. and Canada.
 For Hawaii and Puerto Rico, use ground water temperature of 75° F / 23.9° C. For Alaska, use ground water temperature range 35-42° F / 1.7-5.6° C

SENSEI [®] RX and CX Series Models: RX199IN and RXP199IN BTU: 199,000	Ground Water Temperature (° F / ° C)	Max Flow Rate (GPM / LPM)	Simultaneous Shower Use
	35° F / 1.7° C	4.6 / 17.3	
	37° F / 2.8° C	4.7 / 17.7	
	42° F / 5.6° C	5.0 / 18.8	
	47° F / 8.3° C	5.3 / 20.1	
	52° F / 11.1° C	5.7 / 21.6	
	57° F / 13.9° C	6.2 / 23.3	
	62° F / 16.7° C	6.7 / 25.3	
	67° F / 19.4° C	7.3 / 27.7	
	72° F / 22.2° C	8.1 / 30.6	
	77° F / 25° C	9.0 / 34.1	

Note: Simultaneous shower use was rounded to the nearest whole number based on the following data:
 Tankless set temperature of 120° F / 49° C, mixed shower temperature of 105° F / 40.6° C, ground water temperature as shown in the chart, and shower head flow rate of 2 gpm / 7.6 lpm.

Customer has the option of using the following appliances instead of a shower:
 Residential grade clothes washing machine, hand sink or dishwasher.

Shower heads will be as above. If custom shower fixtures i.e. body sprays, high flow rate rain heads are used, please contact Rinnai.

**Fewer SKUs.
More Flexibility.
Less Inventory.**

Stock less.
Simplify selection.
Eliminate the need to carry
multiple models and
conversion kits—all while
being ready for more
installation applications.

Model Chart and Specifications

SENSEI® RX SERIES Condensing Tankless Water Heaters



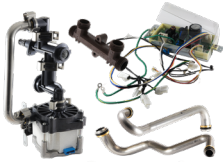
MODEL	RXP199IN	RXP160IN	RX199IN	RX180IN	RX160IN	RX130IN
Built-in Pump	Yes		No			
Smart-Circ Intelligent Recirculation	Yes		Smart-Circ capable with installation of pump or pump accessory kit, RX2RXPCK			
Product Dimensions W x H x D	18.5 x 30.1 x 11.4 in (470 x 765 x 290 mm)					
Product Weight	58 lbs (26 kg)	57 lbs (26 kg)	55 lbs (25 kg)	55 lbs (25 kg)	54 lbs (24 kg)	54 lbs (24 kg)
Installation Type	Indoor Units (Includes optional outdoor installations with use of the Rinnai outdoor vent cap accessory)					
UEF	0.98	0.97	0.98	0.98	0.97	0.97
Min./Max. Btu	15,000/199,000	15,000/160,000	15,000/199,000	15,000/180,000	15,000/160,000	15,000/130,000
Temperature Setting	Minimum: Normal Operation: 98°F (37°C) (Crossover Mode: 120°F (49°C)) Maximum: Default: 120°F (49°C) with Parameter Adjustment: 140°F (60°C)					
Minimum Activation Rate	0.26 GPM (0.5 L/MIN)					
Flow Rate (Min-Max)	0.13-11.1 GPM (0.5-42 L/MIN)	0.13-9.0 GPM (0.5-34 L/MIN)	0.13-11.1 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)
Controller (Standard)	INTEGRATED					
Controllers (Optional)	MC-601; for scheduled recirculation use MC-195T-US or RWM200 Wireless Module					
Certifications	AHRI, CSA, ENERGY STAR®					
Warranty (Residential)*	Limited 15-year on Heat Exchanger, 5-year on Parts, 1-year on Labour. Register within 90 days and receive an additional 4 years of labor coverage for free.					
Mobile Home Certified	Yes					
Thermal Bypass Crossover Valve in Box	Yes		No			
High Altitude Approved	UP TO 10,200 FT. (3,109 M)					
Venting Options	Concentric/PVC/CPVC/PP/SS Vent Cap (Outdoor Only)					
Ultra Low NOx	Yes					
Residential Rack Compatible	Yes RTBRACKA, RTBRACKS, RTBRACKEXT					
1/2" Gas Line Compatible**	Yes					
Wi-Fi® Capable	Yes (Homeowners can use a RWM200 Wireless Module with Rinnai Central™ app)					

*For complete information and details regarding Rinnai's warranty, visit rinnai.us.

**For complete information on gas sizing for Rinnai Tankless Water Heaters, consult the Operation and Installation Manual.

Accessories for SENSEI®RX

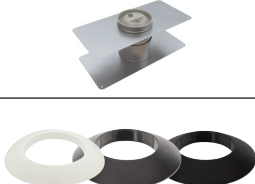
Numerous optional accessories are available for purchase for your Rinnai Tankless Water Heater. Listed below are some commonly purchased accessories. For a complete list of accessories, visit www.rinnai.ca. For questions, or to purchase an accessory, contact your local Rinnai dealer/distributor or **Rinnai Customer Care at 1-800-621-9419**.

Product/Part #	Product Description	
Isolation Valve Kit 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.	
Outdoor Vent Cap RXOVC	Allows the water heater to be installed outdoors.	
BLE Recirculation Push Button RPB200	Mounted in a convenient location, i.e. near a kitchen or bathroom sink, the BLE push buttons works with the SENSEI®RXP tankless water heater or Wireless Module to activate the recirculation system by pushing the button.	
Dedicated Return & Isolation Valve Kit 107000639	Valve kit including tee, drain valve, pressure relief valve, check valve & isolation valves (cold & hot) to simplify set-up of a dedicated recirculation line.	
Internal Add-on Recirculation Conversion Kit RX2RXPCCK	Allows a non-pump RX model to be converted to a RXP internal pump model.	
Condensate Neutralizer 804000074	Neutralizes the condensate generated by the water heater.	
Wireless Module RWM200	Controls On-Demand recirculation and remotely adjusts temperature. The module and MC-195T-US controller are not compatible accessories and must not be installed together.	
Additional Controller MC-601	Additional controllers are available for user convenience.	
Additional Controller MC-195T-US	Additional controllers are available for user convenience.	

Accessories for SENSEI® RX

Product/Part #	Product Description	
ScaleCutter 103000038	Prevents the formation of scale buildup in the water heater extending product life while improving performance.	
ScaleCutter Refill Cartridge 103000039	Refill cartridge for the ScaleCutter filter assembly.	
Room Air Screen 108000104 for 2" 108000105 for 3"	Recommended room air screen for use in room air applications only.	
EZConnect™ Cable REU-EZC-3	Electronically connects two water heaters and allows them to function as one hot water source.	
OPU Switch 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.	
RTBRACKA	Tankless Floor Standing Rack, standard height	
RTBRACKS	Tankless Floor Standing Rack, low profile	
RTBRACKEXT	Rack Extension Kit, add-on	
Recess Box RGBCTWHRX	Allows a water heater to be recessed into a wall. A vent adapter is provided with the recess box.	
Pipe Cover PCD11-SHS	Encloses the piping below the water heater for aesthetic purposes.	
Single Unit Standoff Brackets 109001376	The Single Unit Standoff Brackets create 1.5 inches (38mm) of clearance between the water heater and the wall allowing pipe runs directly behind the tankless unit. Top and bottom bracket included.	
Venting Laser Guide Kit 103000121	Helps identify hole location on the wall or ceiling when using Concentric or PVC venting with Rinnai Tankless Water Heater or Boiler units.	
Gas Conversion Kit 104000330	Kit contains gas conversion manual and conversion rating plate label (adheres to water heater to display new gas type)-for post install conversions).	 Sample Rating Plate Label

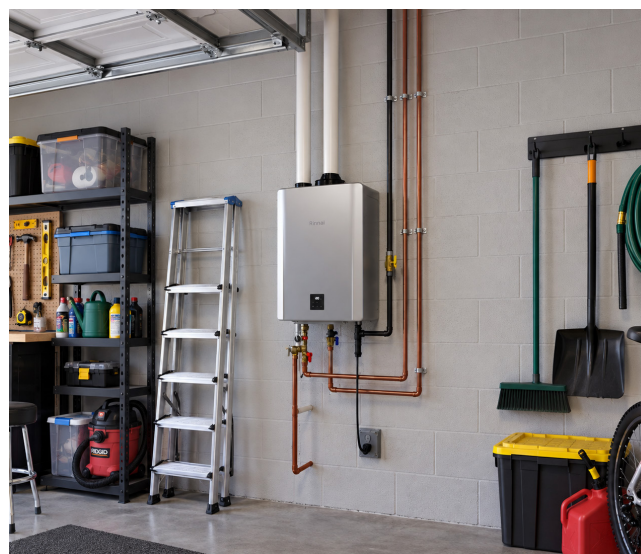
Venting Components for SENSEI®RX 2"/4" Condensing Concentric Vent System			Venting Components for SENSEI®RX 3"/5" Condensing Concentric Vent System		
	Part Number	Product Description		Part Number	Product Description
	229012NPP	12", 2"/4" Condensing Horizontal Termination Kit		223174PP	8.7", 3"/5" Condensing Horizontal Termination Kit
	229013NPP	21", 2"/4" Condensing Horizontal Termination Kit		223176PP	12", 3"/5" Condensing Horizontal Termination Kit
	229016NPP	2"/4" Condensing Horizontal Termination (2 wallplates)		223177PP	21", 3"/5" Condensing Horizontal Termination Kit
	224356NPP	2"/4" Condensing Roof Discharge, 20" Above Roof		223186PP	19", 3"/5" Condensing Horizontal Termination Diverter Nose Kit
	229308NPP	10", 2"/4" Condensing Vent Pipe Extension		184162PP	3"/5" Condensing Roof Discharge Termination Kit, 20" Above Roof
	229309NPP	19.5", 2"/4" Condensing Vent Pipe Extension			
	229310NPP	39", 2"/4" Condensing Vent Pipe Extension		185344PP	3"/5" Condensing Roof Termination Extension Kit
	185348NPP	2"/4" Condensing Roof Terminal Extension Kit		185346PP	3"/5" Condensing Termination Extension
	229205NPP	2"/4" Condensing 45 Deg Elbow (Qty: 2)			10", 3"/5" Condensing Vent Pipe Extension
	229230NPP	2"/4" Condensing 90 Deg Elbow		224079PP	19.5", 3"/5" Condensing Vent Pipe Extension
	229253NPP	2"/4" Condensing 90 Deg Starter Elbow 3"/5" to 2"/4"		224080PP	39", 3"/5" Condensing Vent Pipe Extension
	227412NPP	2"/4" Condensing Starter Straight/ Vertical 3"/5" to 2"/4"		224077PP	3"/5" Condensing 45 Deg Elbow (Qty:2)
	224055	2"/4" Thimble (1 piece per box)		224078PP	3"/5" Condensing 90 Deg Elbow
	169044	Pipe Clamp Universal - Plastic			
	169013	2"/4" Pipe Clamp - Metal			
	710265	2"/4" Wall Plate White			
	710192	2"/4" Wall Plate Black			
	711262	2"/4" Wall Plate Gray			
	188481	2"/4" Retrofit Wall Plate White (for 3/5 opening)			
	188485	2"/4" Retrofit Wall Plate Black (for 3/5 opening)			
	188486	2"/4" Retrofit Wall Plate Gray (for 3/5 opening)			
	710202NPP	2"/4" Condensing 90 Degree Diverter Nose			

 Venting Components for SENSEI® RX		
Roof Flashing	Part Number	Product Description
	189958	Universal Shingle Roof Flashing 1/2 to 16/12 pitch
	50171949	Tile/Shingle Roof Flashing, 1/12 to 6/12
	50171954	Tile/Shingle Flashing, 8/12 to 16/12
	50171961	Tile/Shingle Flashing, 6/12 to 12/12
	242141	Flashing for Metal Roof
	146141	Roof Flashing Assembly-Flat Roof
Other Accessories	Part Number	Product Description
	224045	3 in. / 5 in. Thimble (1 piece per box)
	710342	3 in. / 5 in. Rubber Wall Plate White
	710602	3 in. / 5 in. Rubber Wall Plate Black
	711390	3 in. / 5 in. Rubber Wall Plate Gray
	224049	3 in. / 5 in. Vent Support Bracket
	102000012	3 in. / 5 in. Horizontal Flashing Panel
	169043	3 in. / 5 in. Pipe Clamp - Metal
	224042	Universal Bug Guard



CONDENSING TANKLESS WATER HEATERS		
SENSEI® RX	RX	RXP (with built-in pump)
Precision, Made in Japan. The SENSEI® RX Series is built in Japan, bringing together precision engineering, innovative technology, and Rinnai's legacy of quality.		
UEF (Uniform Energy Factor)	0.97 - 0.98	0.97 - 0.98
Wi-Fi® Capable	✓	✓
Natural Gas or Propane	✓	✓
Indoor and Outdoor installation	✓	✓
Smart-Circ® Intelligent Recirculation	Smart-Circ capable with installation of pump or pump accessory kit	✓
Thermal Bypass Valve included	-	✓

IPEX Concentric termination for 2" and 3" PVC Venting		
	196005PVC	IPEX 2" Concentric Condensing Vent Termination 2x16
	196105PVC	IPEX 2" Concentric Condensing Vent Termination 2x28
	196125PVC	IPEX 2" Concentric Condensing Vent Termination 2x40
	196984PVC	IPEX 2" Condensing Low Profile Vent Termination
	196116PVC	IPEX 3" Concentric Condensing Vent Termination
	196985PVC	IPEX 3" Condensing Low Profile Vent Termination
	224008PPS	IPEX 2" to 3" PP Condensing In increaser/ adaptor
	108000105	3" Mesh Metal, SS screen for PVC intake





Proudly assembling Tankless Water Heaters, Demand Duo® Systems, and Tankless Rack Systems at our state-of-the-art factories located in Griffin, Georgia



Tankless Water Heating Solutions



Electric Water Heating Solutions



Commercial Water Heating & Heating Solutions



Home Heating Solutions



Creating a healthier way of living®

Rinnai America Corporation | 103 International Drive | Peachtree City, Georgia 30269 | rinnai.us | rinnai.ca | 1•800•621•9419

Learn more about Rinnai high-performance Tankless Water Heaters, Hybrid Water Heating Systems, Boilers, Vent-Free Fan Convectors, EnergySaver® Direct Vent Wall Heaters, Electric Heat Pump Water Heaters, and Accessories.

rinnai.us | rinnai.ca



Rinnai supports our Military and First Responders



FOLDS of HONOR