

### Built for the PRO, by the PRO™

SENSEI<sup>®</sup> RX featuring Smart-Circ<sup>™</sup> Intelligent Recirculation<sup>™</sup>, makes it easier than ever 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<sup>®</sup> RX** can offer.



## 

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!



# **VERSA-VENT**

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





#### SMART CONNECT

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





# QUİCK<sup>©</sup>FLUSH<sup>®</sup>

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



#### Superior Performance Requires Superior Components<sup>™</sup>

Rinnai designs and manufactures most of the key components that go into the **SENSEI®RX**, 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.



#### NEW Improved Turbo Fan™

Enables longer vent runs and flexible vent options **Industry leading 75 feet** with 2"/4" concentric and 2" PVC/CPVC/PP. Up to 150 feet with 3"/5" concentric and 3" PVC/ CPVC/PP.

NEW Enhanced Primary and Secondary Heat Exchangers

More efficient heat transfer and improved robust design with minimal joints. The tube design is 444 Stainless Steel that provides added durability and heat resistance.

Sets the standard for high efficiency tankless (0.98 or 0.97 UEF on all models).

NEW 4-Speed DC Recirculation Pump Quieter operation in

Quieter operation in a compact size with higher head pressure for improved performance.

NEW Retro-fit Internal Pump Kit Adds Rinnai's advanced recirculation capability to non-pump models.

Rinnai. INDUSTRY FIRST

**NEW Weighs 58 lbs.** 10 lbs. lighter than previous models.



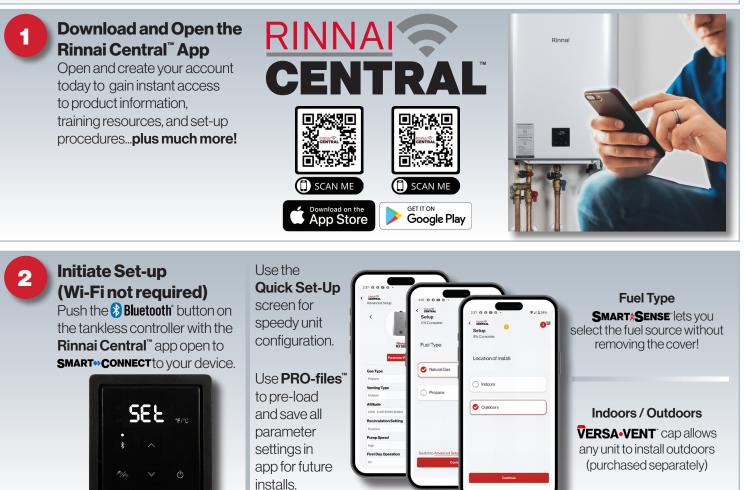
15 Years on the Heat Exchanger 5 Years on Parts 5 Years on Labor\* •Requires product to be registered within 90 days of installation or Labor Warranty defaults to 1-year

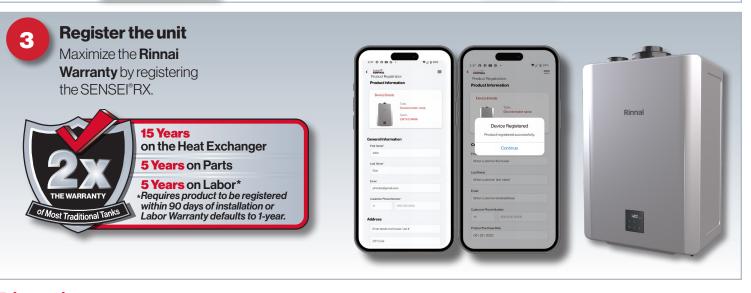
Energy STAR

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#### **Set-up and Registration has Never Been More Convenient**





Rinnai. Learn more at rinnai.us

#### Lifestyle Comfort Options with SENSEI® RXP - Recirculation models

Smart-

Intelligent Recirculation

#### **4a Recirculation Schedule Based on Usage Patterns** Smart-Circ<sup>™</sup> Extraordinary Convenience Out of the Box

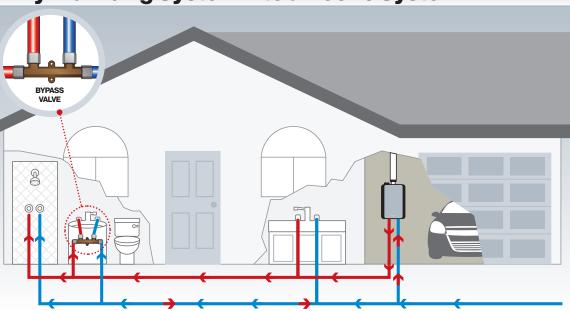
Smart-Circ™ Extraordinary Convenience Out of the Box

Smart-Circ<sup>™</sup> starts learning "users" hot water patterns from the first day and automatically schedules recirculation to provide hot water when they need it. Leverages last 7 days of hot water usage to continuously update hot water recirculation schedule. Users enjoy continuous hot water during regular demand periods, while saving energy and money.



#### 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

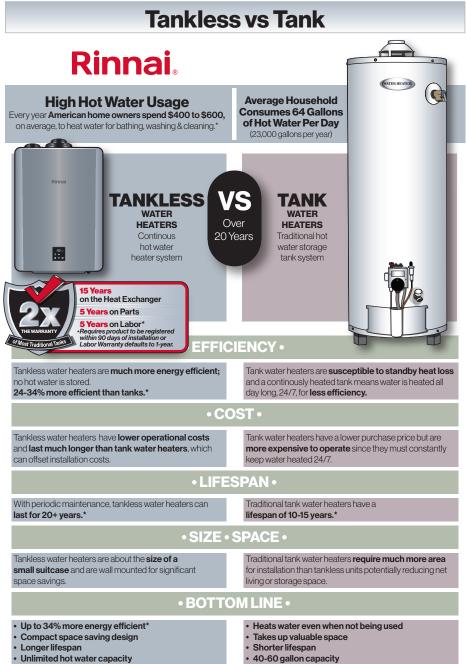
Model	RXP199	RXP160	RX199	RX180	RX160	RX130
Max. BTUH	199,000	160,000	199,000	180,000	160,000	130,000
Recovery Efficiency*	97%	97%	97%	97%	97%	97%
Temperature Rise (°F)	GPM	GPM	GPM	GPM	GPM	GPM
105	3.7	3.0	3.7	3.3	3.0	2.4
100	3.9	3.1	3.9	3.5	3.1	2.5
95	4.1	3.3	4.1	3.7	3.3	2.7
90	4.3	3.5	4.3	3.9	3.5	2.8
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

**Water Flow Curve** Delta T - Temperature Rise (°C) 50 10 20 40 60 0 30 12.0 45.0 RX199i and RXP199 11.0 40.0 10.0 RX180 35.0 9.0 8.0 30.0 (LPM) Water Flow (GPM) 7.0 25.0 6.0 Flow 20.0 5.0 ē 2 4.0 15.0 3.0 10.0 RX130i 2.0 5.0 1.0 0.0 0.0 0° 25 50° 75° 100° 125° Delta T - Temperature Rise (°F)

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



\*Recovery Efficiency ratings per AHRI Directory.



· Unlimited hot water capacity

\* As based on the average operating costs, efficiency and lifespans of tankless vs. storage water heaters per the Department of Energy (energy.gov).



**Rinnai LMS Class Enrollment Guide** https://bit.ly/42ITiaQ

#### **Rinnai Technical Training Department**

Rinnai offers many NO COST training options for PROs, either on-line, in the field or at Rinnai's

Peachtree City, Georgia corporate office. The training levels range from an introduction to tankless technology to advanced live technical training where you gain hands-on experience in the installation and troubleshooting of Rinnai products. For more information, contact your local Rinnai

representative or enroll today at the Rinnai Online Training Center.



**Training Help** Email: training@rinnai.us

SCAN M

#### 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 on the link below of scan the Tankless Truths QR Code.

https://www.rinnai.us/tanklesstruths

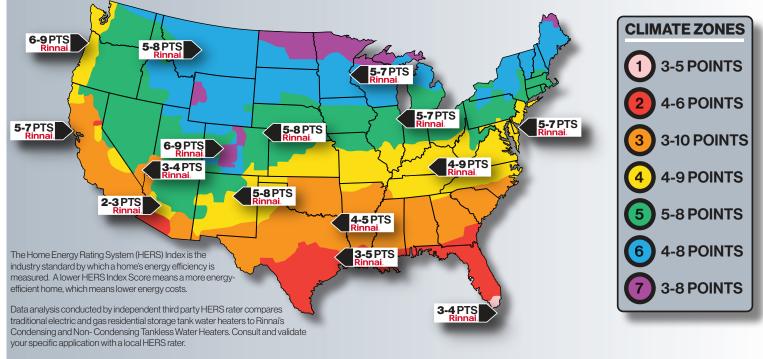




**Rinnai LMS Class Schedules** https://bit.ly/443HWcX



**HERS Scores Improve With Rinnai Tankless Water Heaters** 



For more information specific to your zone or city, visit: <u>hersindex.com</u>

	<b>Model Chart and Specifications</b> SENSEI®RX SERIES Condensing Tankless Water Heaters					
YOUR SKUs from 24 MODELS to 6!	Provi E		Roos	Root		Ross
MODEL	RXP199IN	RXP160IN	RX199IN	RX180IN	RX160IN	RX130IN
Built-in Pump	Ye	2S		Ν	lo	
Smart - Circ Intelligent Recirculation	Ye	25	Smart-C	irc capable with installati	on of pump or pump acce	essory kit
Product Dimensions W,H,D inches (mm)			18.5 X 30 (470 X 76			
Product Weight (lbs / kg)	58 (26)	57 (26)	55 (25)	55 (25)	54 (24)	54 (24)
Installation Type	In	door Units (Includes optic	onal outdoor installations	with use of the Rinnai ou	tdoor vent cap accessory	1)
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			0.13 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 labor. Register within 90 days and receive an additional 4 years of labor coverage for free (\$250 value).					
Mobile Home Certified			Ye	es		
Thermal Bypass Crossover Valve in Box	Ŷ	es		Ν	lo	
High Altitude Approved			UP TO 10,200	) FT. (3,109 M)		
Venting Options	Concentric/PVC/CPVC/PP Vent Cap (Outdoor Only)					
Ultra Low NOx	Yes					
Residential Rack Compatible	Yes RTBRACKA, RTBRACKS, RTBRACKEXT					
1/2" Gas Line Compatible†	Yes					
Wi-Fi Ready			Yes			

\*To achieve temperatures over 140° F (60° C), consult the Operation and Installation Manual. \*\*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 <u>www.rinnai.us</u> 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.	Rinnai			
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 RX2RXPCK	Allows a non-pump RX model to be converted to a RXP internal pump model.				
Condensate Neutralizer 809000074	Neutralizes the condensate generated by the water heater.				
Wireless Module RWM200	Controls On-Demand recirculation, remotely adjust temperatures, and communicates with the service provider portal. 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.			
Drain Down Kit 104000059	Provides freeze protection by immediately draining the water heater upon loss of power.			
Leak Detection Kit RXLeakKit	Pipe cover drain pan and float switch for use with the Pipe Cover (Part #: PCD11-SHS)			
Room Air Screen 108000104 for 2" 108000105 for 3"	Recommended room air screen for use in room air applications only.			
EZConnect <sup>™</sup> 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.			

Accessories for SENSEI®RX						
Product/Part #		Product Description				
Ubbink 2" Polypropylene (PP) Flexible Venting • Approved for condensing, vertical non-direct vent (room air) applications • Maximum equivalent length: 50 ft (15 m)	2" (60) Condensing Flex Termination Kit (Fits 4 and 6 in B-Vent) 184470NPP		2" (60) Flex Roll X 41.5' (12.5 m) 222721NPP		2" (60) Flex Connector 222720NPP	
Tankless Battery Back-Up System R-UPS350A	Tankless Battery Back-Up System					
Gas Conversion Kit 104000330	Kit contains gas conversion manual and conversion rating plate   Iabel (adheres to water heater to display new gas type)-for post   install conversions.			JURAL Cas TKPa) Max. [10.5"W.C. (2.61KPa) a) (Von-Adjustable) on the existing rating plate. (day-month-year) to		

#### **Tankless Water Heater Series Reference Guide**

NOLY ASSEMD				
Stoudly ASSEMBLING	RE	<b>REP</b> (with built-in pump)		
Z CRIAN, GEORGIA				
	REMODELS	<b>REP MODELS</b>		
UEF (Uniform Energy Factor)*	0.81-0.82	0.81-0.82		
Wi-Fi Capable	$\checkmark$	$\checkmark$		
Available in Natural Gas or Propane	✓	✓		
Indoor and Outdoor installation	$\checkmark$	√		
Smart - Circ		<i>√</i>		
Thermal Bypass Valve included				
Isolation Valves included		$\checkmark$		
Smart Home Automation**	$\checkmark$	$\checkmark$		

SENSEI RX CONDENSING TECHNOLOGY			
RX	<b>RXP</b> (with built-in pump)		
RX MODELS	RXPMODELS		
0.97 - 0.98	0.98		
✓	$\checkmark$		
✓	$\checkmark$		
✓	$\checkmark$		
Smart-Circ capable with installation of pump or pump accessory kit	<i>✓</i>		
	$\checkmark$		
✓	1		

+

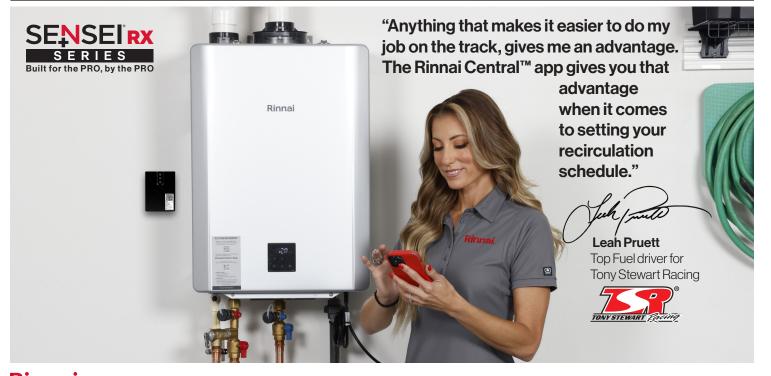
As based on the 2017 DOE new metric for communicating the energy efficiency of residential water heaters. Rinnai RWM200 Wireless module necessary (module sold separately). When used on models with Smart-Circ<sup>™</sup> for scheduled or on demand recirculation, the Wireless module overrides Smart-Circ<sup>™</sup> recirculation patterns. \*\* Amazon, Alexa, and all related logos are trademarks of Amazon.com, Inc. or its affiliates.





Venting Components for SENSEI®RX 2"/4" Condensing Concentric Vent System				
	Part Number	Product Description		
	229031	12", 2"/4" Condensing Horizontal Termination Kit (PPtI)		
	229032	21", 2"/4" Condensing Horizontal Termination Kit (PPtI)		
	229033	2"/4" Condensing Horizontal Termination (2 wallplates) (PPtI)		
	224359	2"/4" Condensing Roof Discharge, 20" Above Roof (PPtI)		
	229318	10", 2"/4" Condensing Vent Pipe Extension (PPtl)		
0	229319	19.5", 2"/4" Condensing Vent Pipe Extension (PPtI)		
	229320	39", 2"/4" Condensing Vent Pipe Extension (PPtI)		
	185348NPP	2"/4" Condensing Roof Terminal Extension Kit		
Q	229208	2"/4" Condensing 45 Deg Elbow (Qty: 2) (PPtl)		
0	229233	2"/4" Condensing 90 Deg Elbow (PPtl)		
0	229252	2"/4" Condensing 90 Deg Starter Elbow 3"/5" to 2"/4" (PPtl)		
	227413	2"/4" Condensing Starter Straight/ Vertical 3"/5" to 2"/4" (PPtI)		
R	224055	2"/4" Thimble (1 piece per box)		
<i>k</i> o	169044	Pipe Clamp Universal - Plastic		
0	169013	2"/4" Pipe Clamp - Metal		
0	224056	2"/4" Vent Support Bracket- 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)		
00	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		
	710215NPP	2"/4" Condensing 45 Degree Diverter Nose		

Venting Components for SENSEI®RX 3"/5" Condensing Concentric Vent System				
	Part Number	ber Product Description		
	223174PP	8.7", 3"/5" Condensing Horizontal Termination Kit		
	223176PP	12", 3"/5" Condensing Horizontal Termination Kit		
	223177PP	21", 3"/5" Condensing Horizontal Termination Kit		
	223186PP	19", 3"/5" Condensing Horizontal Termination Diverter Nose Kit		
	224047PP	3"/5" Condensing Raised Horizontal Terminal Kit ("Snorkel")		
	184162PP	3"/5" Condensing Roof Discharge Termination Kit, 20" Above Roof		
	185344PP	3"/5" Condensing Roof Termination Extension Kit		
t I	185346PP	3"/5" Condensing Termination Extension		
	224087PP	10", 3"/5" Condensing Vent Pipe Extension		
	224079PP	19.5", 3"/5" Condensing Vent Pipe Extension		
	224080PP	39", 3"/5" Condensing Vent Pipe Extension		
O	224077PP	3"/5" Condensing 45 Deg Elbow (Qty:2)		
	224078PP	3"/5" Condensing 90 Deg Elbow		



#### Venting Components for SENSEI®RX

<b>Roof Flashing</b>	Part Number	Product Description		
	189958	Universal Shingle Roof Flashing 1/2 to 16/12 pitch		
	189950	Shingle Roof Flashing, 1/12 to 6/12 pitch		
	189951	Shingle Roof Flashing, 6/12 to 12/12 pitch		
	189952	Shingle Roof Flashing, 8/12 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		
ð	169043	3"/5" Pipe Clamp - Metal		
6	169044	Pipe Clamp Universal-Plastic		
	224042	Universal Bug Guard		
	IPEX Concer	ntric termination for 2" and 3" PVC Venting		
	196005PVC	IPEX 2" Concentric Condensing Vent Termination 2x16		
	196105PVC	IPEX 2" Concentric Condensing Vent Termination 2x28		
1	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 Increaser/ adaptor		
	108000105	3" Mesh Metal, SS screen for PVC intake		

**Proudly assembling Tankless Water Heaters at our** state-of-the-art factory located in **Griffin, Georgia, USA** 

Rinnai established its US operations in 1974 and introduced Tankless Water Heating to the North American Market in 1999.

In 2018 Rinnai assembled its first tankless water heater in the United States in Griffin, Georgia. Our state-of-the-art facility was completed in 2021 with assembly of the new RE• SERIES<sup>™</sup> Non-Condensing Tankless Water Heaters beginning in 2022.

Rinnai continues to make significant investments in expanding its operations and product portfolio, focusing on its brand promise of Creating a healthier way of living\*



Rinnai America in Griffin, Georgia, USA



**Over 100 Years** of Smart Comfort

Through many years of innovation, including decades of commercial water heating experience. Rinnai has enhanced the way businesses operate, while creating a healthier way of living for their customers.

With headquarters in Japan and a network of 20 subsidiaries and 86 sales offices in 13 countries. this commitment has made us the number one selling brand of tankless water heater systems.

Dedicated to a smarter kind of comfort, our value-added products continue to stav in step with the demands of a changing world.



Water Heating Solutions



**Home Heating Solutions** 



**Commercial Water Heating Solutions** 

#### Every. Detail. Matters.<sup>™</sup>

You don't become a market leader without thinking through every single detail. Then overthinking it. Then rethinking it. Every small detail matters. A lot. From flexible venting to customizable solutions and maximum ROI, we've thought through all the possible barriers and potential problems before they exist. Simply put, we're not just in the business of tankless water heaters. We're in the business of solving problems. That means we won't relax. Ever. We just can't. We'll keep rethinking every single tiny detail, innovating, and improving our products, services, and programs.

> Learn more about Rinnai high-performance Tankless Water Heaters, Hybrid Water Heating Systems, Boilers, Vent-Free Fan Convectors, EnergySaver® Direct Vent Wall Furnaces and Hydronic Air Handlers.

#### rinnai.us | rinnai.ca

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