

**Rinnai®**

# **I-SERIES<sup>TM</sup>** **PLUS**

Condensing Gas Boiler

**Built for the PRO, by the PRO<sup>TM</sup>**

**NEW**

**UP TO  
96%  
AFUE**



**IP150S Solo Model**



**IP199199C Combi Model**



Featuring 5 **NEW** Combi Models, 2 **NEW** Solo Models and **SMART<sup>+</sup>CONNECT<sup>TM</sup>** for simplified set-up.

# I-SERIES<sup>TM</sup> PLUS

**Built for the PRO, by the PRO<sup>TM</sup>**

The **NEW I-SERIES Plus<sup>TM</sup>** line of **Solo** and **Combi Condensing Gas Boilers** offers unmatched value and performance with an expanded product line up to 199k Btu. Now you can **Rely on Rinnai** for all your Residential Heating projects no matter the size or complexity.



**iP150S** Solo Model



**IP199199C** Combi Model



**NEW**

## SMART SENSE<sup>TM</sup>



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

Smart Sense<sup>TM</sup> Adaptive Gas Valve technology is available on the following models: IP060160, IP090099C, IP090160C, IP090199C, IP120199C, IP150199C, IP060S, IP090S, IP120S, IP150S

**NEW**

## SMART CONNECT<sup>TM</sup>

### Smart Connect<sup>TM</sup> for PROs

Allows you to connect your smart phone or tablet to the **I-SERIES Plus<sup>TM</sup>** via Bluetooth® (no adapter required). Use the **Rinnai Central<sup>TM</sup>** App for quick, simplified boiler set-up and registration, significantly reducing your install time.



SCAN ME



SCAN ME



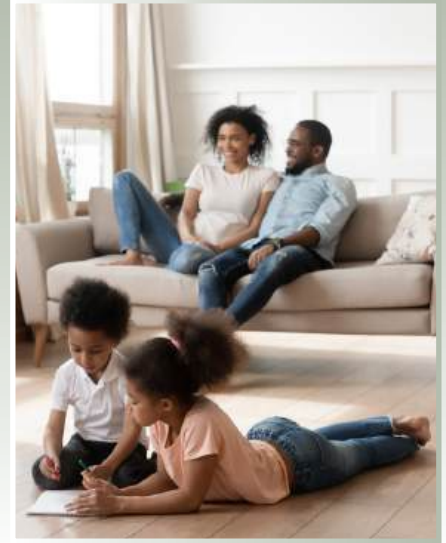
**RINNAI**  
**CENTRAL<sup>TM</sup>**





## Comfort & Convenience

- **NEW** 4 Built-In Zones for better comfort levels
- **NEW Smart Sense™** Adaptive Gas Valve Technology (Up to 150k Btu models only)
- **NEW** 7 Heating Reset Curves (6 standard, 1 custom) for consistent temperatures
- **NEW** Advanced Controls with Intuitive Front Panel Display
- **NEW** Air Handler Connectivity
- **NEW** Smart-Circ™ learns hot water patterns and automatically schedules recirculation during regular demand periods  
*Requires external recirculation pump\**



**Rinnai offers the  
most models with an  
industry-leading  
96% AFUE\***

\*AHRI Directory of Certified Product Performance

## Operational Performance

- Up to 96% AFUE for significant energy savings
- **NEW** Cascade up to 24 Combi boilers / 1 Combi boiler and up to 23 CX tankless units / up to 24 Solo boilers\*\*
- **NEW** Common Venting up to 8 units\*\*\*
- Low NOx Emissions ( $\leq 20$ ppm) in Compliance with SCAQMD
- High Altitude Approved up to 10,100 feet

## All Combi Models Deliver Simultaneous Domestic Hot Water and Space Heating

### Flexible Installation

- **NEW** Use the **Rinnai Central™** App for quick parameter settings
- **NEW SmartConnect™** Bluetooth® from your Hand-Held Device
- **NEW** Quick Set-Up screen for speedy unit configuration
- Easy Hang Wall Bracket
- **NEW** Longer Venting Runs: 75 ft on 2" and 160 ft on 3" vent pipe



\* Combi Units only

\*\* Rinnai can cascade Solo  $\geq 175$ k Btu up to 24 solo boilers

\*\*\* Rinnai can common vent Solo Boilers up to 8 units  $\geq 120$ k Btu



All **I-SERIES Plus™** models offer 4 zone capability, 2" venting up to 75 ft., and a proportional valve that allows **simultaneous delivery of domestic hot water and space heating on all Combi Models.**



# I-SERIES<sup>PLUS</sup>™

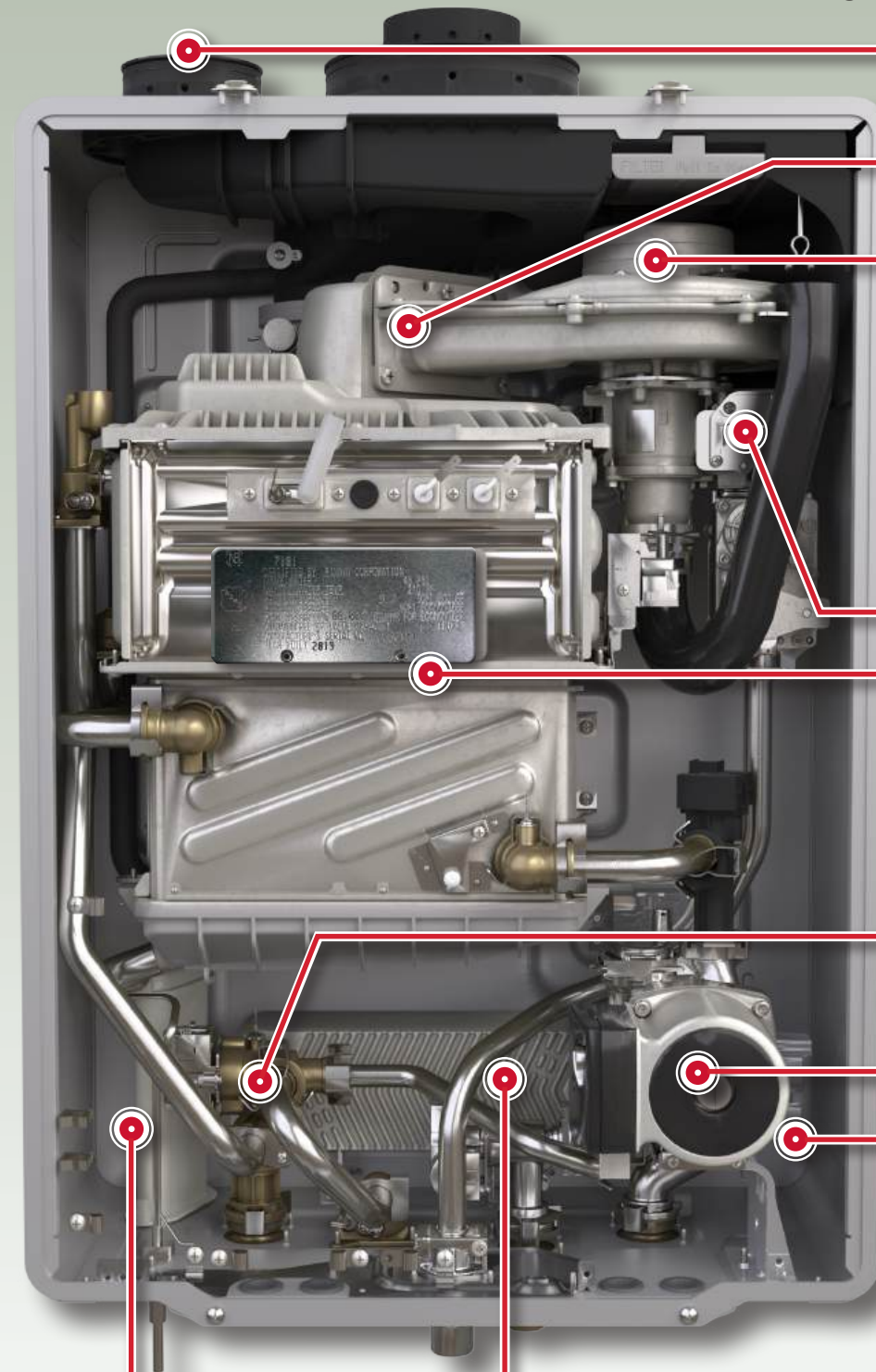
Condensing Gas Boiler

Look inside the **I-SERIES Plus™**

60-150k Btu Models

## High-Efficiency Condensing Boiler

Re-designed to Perform and Impress



**NEW 2-Inch longer Vent** runs up to 75 ft and 3-inch vent runs up to 160 ft. All venting materials (PVC/CPVC/PP/SS) approved. This applies to both, air intake and exhaust.

**Combustion Check Valve** prevents cold air or flue gases from entering living space

**Turbo Fan** enables longer vent runs with more options, works with gas valve for optimal performance and efficiency

**NEW SMARTSENSE**  
Adaptive Gas Technology

**Primary and Flat Plate Secondary Stainless Steel Heat Exchangers** for additional efficiency improvements

**Servo-Based Temperature Controller;** Water Flow and Bypass Servo Valves for DHW work together to deliver precise DHW temperature control (no mixing valve required)

**Integrated Pump**  
(Combi Models only)

Simultaneous space heating (SH) and Domestic Hot Water (DHW) enabled by **Proportional Valve**

**Integrated Condensate Trap**  
to remove acidic condensate

**Stainless Steel Flat Plate Domestic Hot Water Heat Exchanger**  
(Combi Models Only)

**PC Board and Controller** with BLE capability and integrated Smart-Circ™ Logic

**NEW Innovative Logic** comes with built-in 4-zone capability with option of designating one zone for DHW recirc pump or indirect tank (for heat only models)



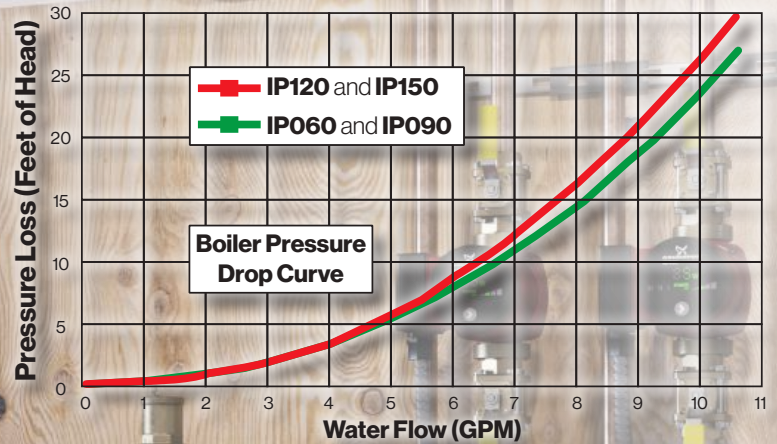


# I-SERIES<sup>PLUS</sup>™

Condensing Gas Boiler  
60-150k Btu Models

## Solo Models

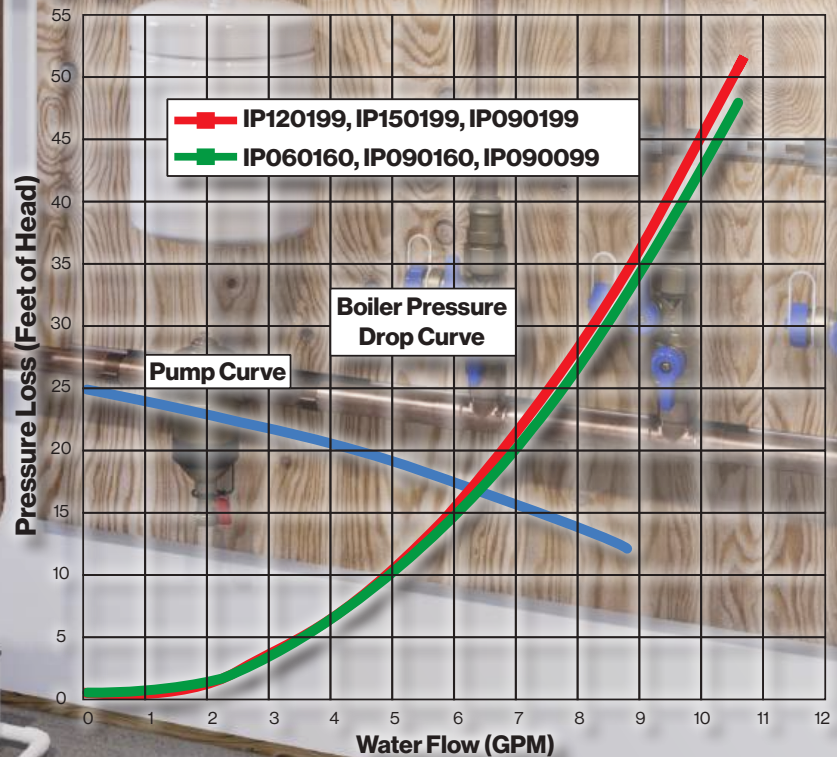
### Pressure Drop and Water Flow



Note: External boiler pump required

## Combi Models

### Pressure Drop and Water Flow





Look inside the **I-SERIES Plus™**  
175 and 199k Btu Models  
**High-Efficiency Condensing Boiler**  
Higher Capacity for High Demand Applications

**I-SERIES PLUS™**  
Condensing Gas Boiler

**NEW 2-Inch longer Vent** runs up to 75 ft and 3-inch vent runs up to 160 ft. All venting materials (PVC/CPVC/PP/SS) approved. This applies to both, air intake and exhaust.

**Concentric Vent or 2-Inch Exhaust** 2 in. / 4 in. or 3 in. / 5 in. direct vent or exhaust in 2-pipe configurations

**Air inlet filter**

**Combustion Analyzer Port**

**Burner Assembly**

**Stainless Steel Heat Exchanger**

**Turbo Fan** enables longer vent runs with more options, works with gas valve for optimal performance and efficiency

**Integrated Check Valve**

**Stainless Steel Flat Plate Domestic Hot Water Heat Exchanger**

**Servo-Based Temperature Controller** delivers precise DHW temperature control (no mixing valve required)

**Innovative Logic with 4-Zone Capability**

**PC Board and Controller** with BLE capability and integrated Smart-Circ™ Logic

**Integrated Condensate Trap** to remove acidic condensate

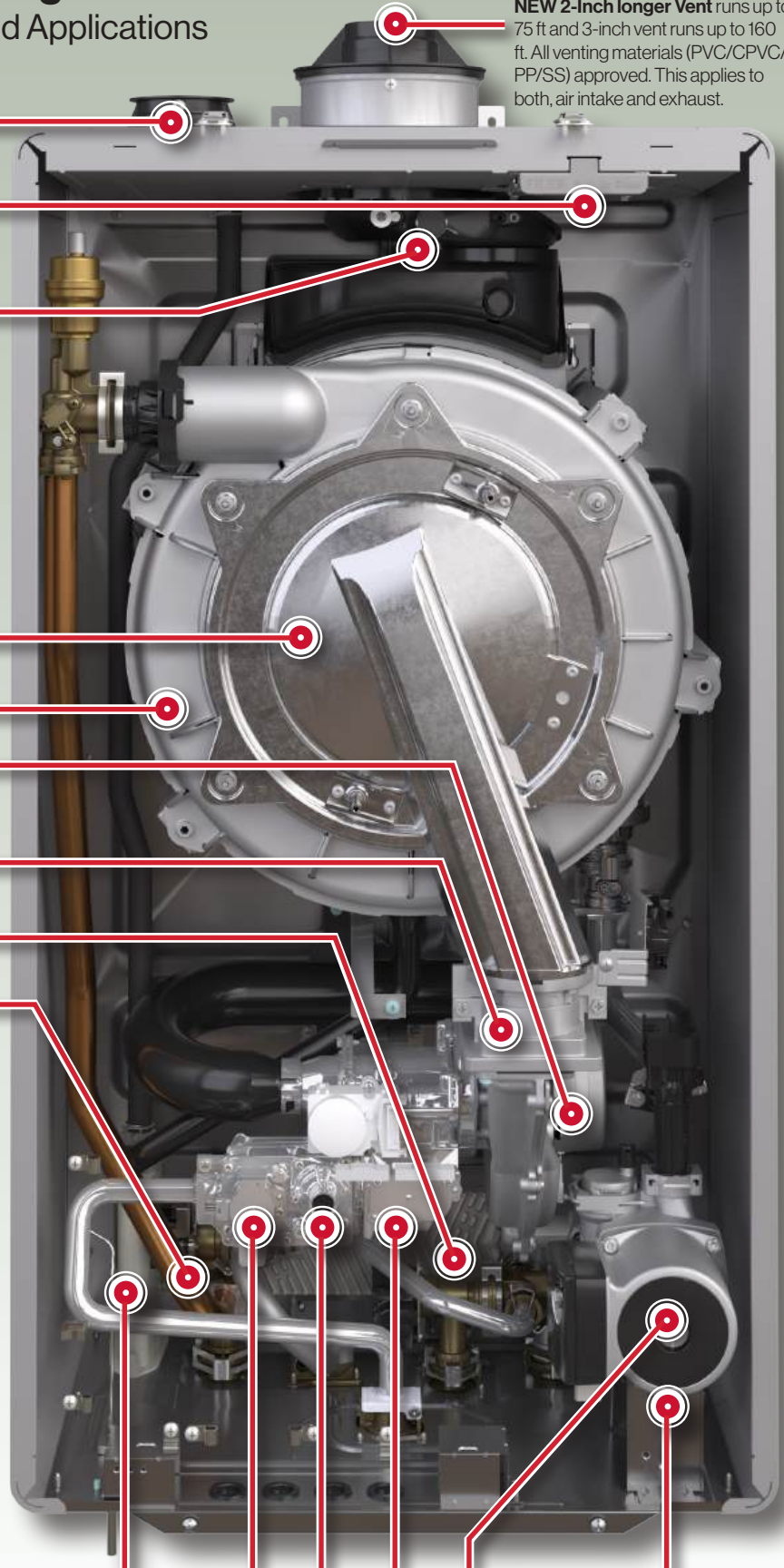
**Zero Governor Gas Valve**

**Switch Venturi**

**Gas Orifice**

**Integrated Pump** (Combi Models Only)

**Proportional Valve** allows Simultaneous Space Heating (SH) and Domestic Hot Water (DHW) (located behind the Pump)



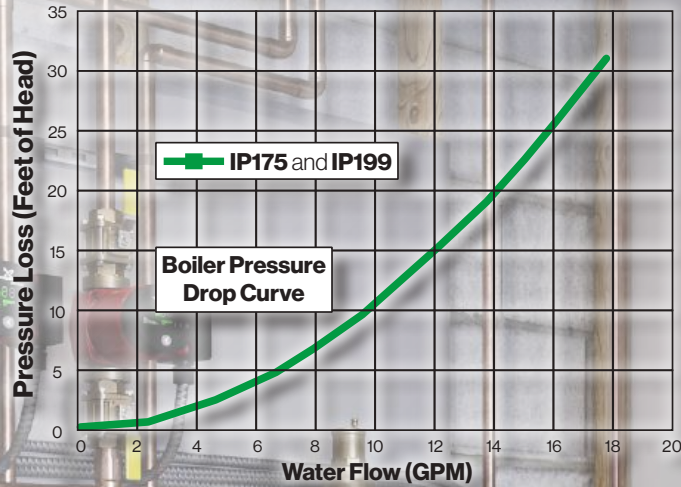


# I-SERIES PLUS<sup>TM</sup>

Condensing Gas Boiler  
175 and 199k Btu Models

## Solo Models

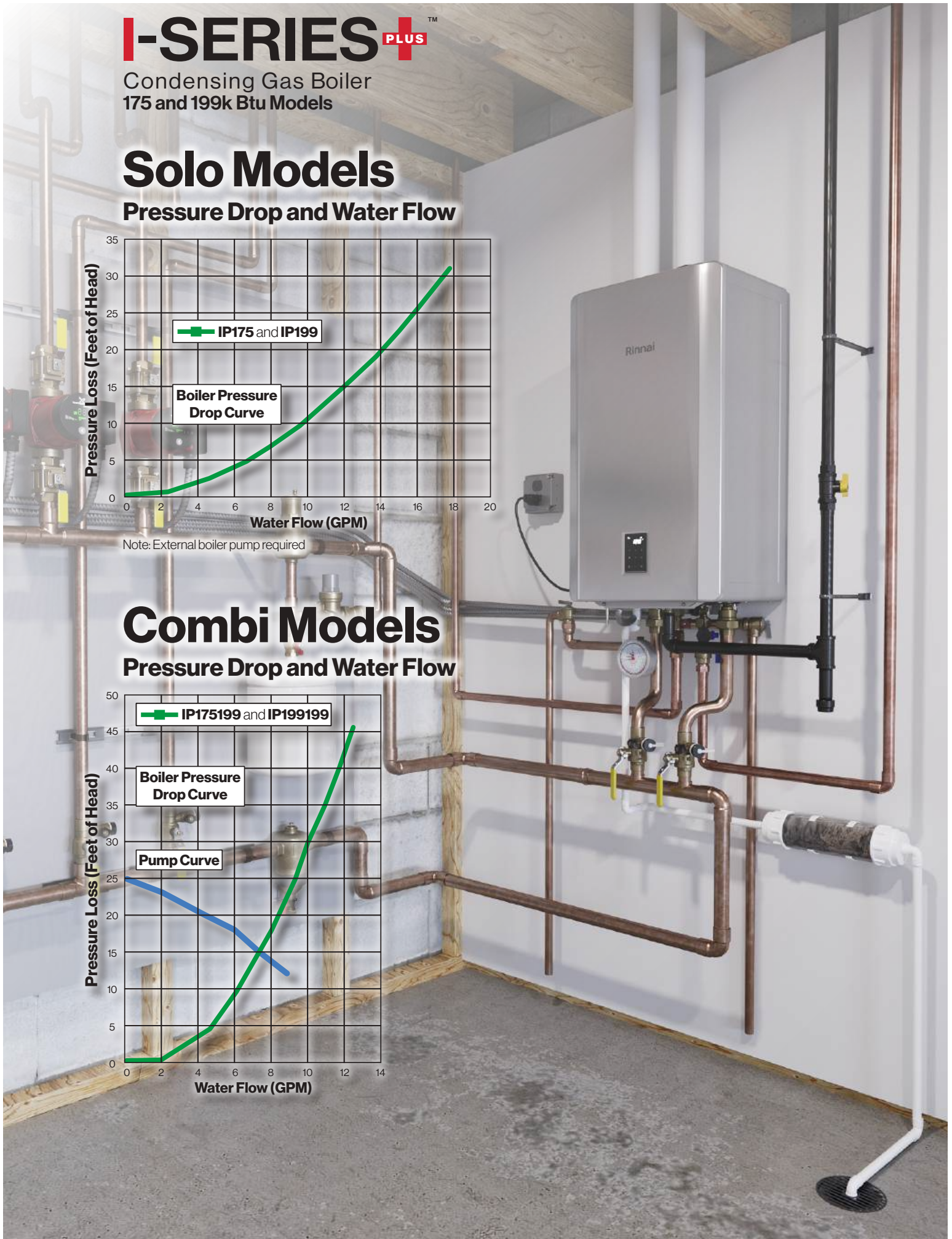
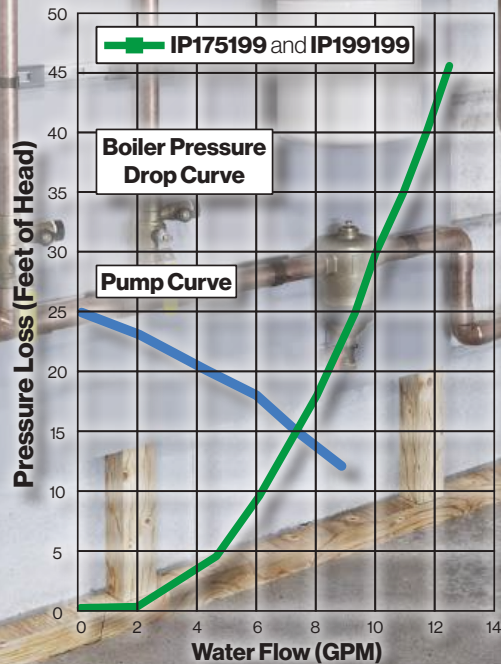
### Pressure Drop and Water Flow



Note: External boiler pump required

## Combi Models

### Pressure Drop and Water Flow











# I-SERIES Plus™ Combi Models



## Rinnai® I-SERIES PLUS™ Condensing Gas Boiler



Specifications		Combi Models							
		IP060160C	IP090099C	IP090160C	IP090199C	IP120199C	IP150199C	IP175199C	IP199199C
Heating Input Max CH (Btu)		60,000	90,000	90,000	90,000	120,000	150,000	175,000	199,000
Heating Input Min CH (Btu)		15,000							
Heating Input Max DHW (Btu)		160,000	99,000	160,000	199,000	199,000	199,000	199,000	199,000
Efficiency (% AFUE)		95.5	96.0	96.0	96.0	96.0	96.0	95.0	95.0
Turndown Ratio (TDR)		11:1	7:1	11:1	13:1	13:1	13:1	11:1	10:1
Turndown Ratio (TDR) CH		4:1	6:1	6:1	6:1	8:1	10:1	10:1	10:1
DHW Max Flow Rate (GPM)		7.9	5.3	7.9	9.8			7.9	9.8
Flow Rate at 70°F (39°C) Rise		4.1	2.5	4.1	5.1				
Fuel Type		NG/LP	NG/LP	NG/LP	NG/LP	NG/LP	NG/LP	NG/LP	NG/LP
Heat Exchanger Surface Area (sqft)		9.3			10.9			15.6	
Temperature Setting Range (CH)		86°F - 180°F (30°C - 82°C)						86°F - 180°F (30°C - 82°C)	
Water Content (Gal)		0.75			0.88			2.4	
Max Water Operating Pressure (CH)		30 PSI (207 kPa)							
Gas Supply Pressure (Natural Gas)		3.5 - 10.5 in W.C. (0.87 - 2.61 kPa)							
Gas Supply Pressure (Propane)		8.0 - 13.5 in W.C. (1.99 - 3.36 kPa)							
Electrical Data	Normal CH)	207 W						207 W	
	Standby	8 W						8 W	
	Max Current	14 Amps						14 Amps	
Sound Level dB(A)		43						42	
Weight	Unit	73.0 lb (33.0 kg)			76.1 lb (34.5 kg)			123.5 lb (56 kg)	
	Shipping	79.4 lb (36.1 kg)			82.7 lb (37.6 kg)			138.6 lb (63 kg)	
Dimensions W x H x D in. (mm)	Unit	18.5 x 26.4 x 11.45 (471 x 671 x 290)						19.45 x 34.88 x 15.48 (494 x 886 x 393)	
	Shipping	20.9 x 33.5 x 14.6 (532 x 852 x 370)						23.6 x 45.3 x 19.7 (600 x 1,150 x 500)	
Residential Warranty (Heat Exchanger)		<div><div>WARRANTY COVERAGE</div><div><div>12 YEARS</div>on the Heat Exchanger</div><div><div>5 YEARS</div>on Parts</div><div><div>1 YEAR</div>Reasonable Labor</div></div>			12 Years				
Residential Warranty (Parts)					5 Years				
Residential Warranty (Labor)					1 Year				
Commercial Warranty (Heat Exchanger)		5 Years							
Commercial Warranty (Parts)		5 Years							
Commercial Warranty (Labor)		1 Year							
Certifications		<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>							

1. Ratings are the same for natural gas models and converted to propane gas.  
2. Values are based standard test procedures prescribed by the U.S. Department of Energy.

3. The net AHRI ratings are based on piping and pickup allowances of 1.15. Please contact Rinnai for selecting boilers that have unusual piping or system components.  
4. Rinnai reserves the right to change specifications without notice.










# I-SERIES Plus™ Solo Models



## Rinnai® I-SERIES PLUS™ Condensing Gas Boiler



Specifications		Solo Models					
		IP060S	IP090S	IP120S	IP150S	IP175S	IP199S
Heating Input Max CH (Btu)		60,000	90,000	120,000	150,000	175,000	199,000
Heating Input Min CH (Btu)		15,000					
Heating Input Max DHW (Btu)		N/A					
Efficiency (% AFUE)		95.5	96.0	96.0	96.0	95.0	95.0
Turndown Ratio (TDR)		N/A					
Turndown Ratio (TDR) CH		4:1	6:1	8:1	10:1	10:1	10:1
DHW Max Flow Rate (GPM)		N/A					
Flow Rate at 70°F (39°C) Rise		N/A					
Fuel Type		NG/LP	NG/LP	NG/LP	NG/LP	NG/LP	NG/LP
Heat Exchanger Surface Area (sqft)		9.3		10.9		15.6	
Temperature Setting Range (CH)		86°F - 180°F (30°C - 82°C)					
Water Content (Gal)		0.75		0.88		2.4	
Max Water Operating Pressure (CH)		30 PSI (207 kPa)					
Gas Supply Pressure (Natural Gas)		3.5 - 10.5 in W.C. (0.87 - 2.61 kPa)					
Gas Supply Pressure (Propane)		8.0 - 13.5 in W.C. (1.99 - 3.36 kPa)					
Electrical Data	Normal CH)	36 W	53 W	50 W	50 W	90 W	98 W
	Standby	8 W				8W	
	Max Current	14 Amps				14 Amps	
Sound Level dB(A)		40	40	40	42	40	42
Weight	Unit	62.6 lb (28.4 kg)		64.8 lb (29.4 kg)		112.4 lb (51 kg)	
	Shipping	69.1 lb (34.1 kg)		71.3 lb (32.4 kg)		127.6 lb (58 kg)	
Dimensions W x H x D in. (mm)	Unit	18.5 x 25.75 x 11.5 (470 x 654 x 291)				19.45 x 34.88 x 15.48 (494 x 886 x 393)	
	Shipping	20.9 x 33.5 x 14.6 (532 x 852 x 370)				23.6 x 45.3 x 19.7 (600 x 1,150 x 500)	
Residential Warranty (Heat Exchanger)		<div><div>WARRANTY COVERAGE</div><div>12 YEARS on the Heat Exchanger 5 YEARS on Parts 1 YEAR Reasonable Labor</div></div>		12 Years			
Residential Warranty (Parts)				5 Years			
Residential Warranty (Labor)				1 Year			
Commercial Warranty (Heat Exchanger)		5 Years					
Commercial Warranty (Parts)		5 Years					
Commercial Warranty (Labor)		1 Year					
Certifications		<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>					

1. Ratings are the same for natural gas models and converted to propane gas.
2. Values are based standard test procedures prescribed by the U.S. Department of Energy.
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## Additional Accessories

Part Number	Description	
807000212	Primary-secondary heating Kit, I-Series Boiler (Combi Models only)	
807000213	Primary-secondary heating Kit, I-Series Boiler (Heat only)	
804000074	Condensate Neutralizer Kit (All Models)	
809000114	Refill - Condensate Neutralizer (All Models)	
103000038	Scale Cutter System (Combi Models only)	
103000039	Scale Cutter Refill Cartridge (Combi Models only)	
MIVK-T-LW	DHW Isolation Valve Kit, Compact design, Ease in Flushing (Combi Models only)	
MC-601	Temperature Controller (Combi Models only)	
RTBRACKA	Boiler rack, standard height	
RTBRACKS	Boiler rack, low profile	
RTBRACKEXT	Rack extension kit, add-on	










# Installation and Venting Components









## 2in. Venting for Room Air and Twin Pipe

Part Number	Description	Inner Exhaust Material	Outer Intake Material	
222715NPP	2 in. Condensing Fixing Clip Metal Qty 10	PP	Plastic	
223085NPP	2 in. Condensing Wall Terminal Twin Pipe	PP	Plastic	
222710NPP	2 in. Condensing 45 Degree Elbow (20/ Box)	PP	Plastic	
222711NPP	2 in. Condensing 90 Degree Elbow (20/ Box)	PP	Plastic	
222712NPP	2 in. Condensing Vent Pipe Extension 39 in. (4/ Box)	PP	Plastic	
222714NPP	2 in. Condensing Vent Pipe Extension 79 in. (4/ Box)	PP	Plastic	

## 2in. / 4in. Installation Venting Components

Part Number	Description	Inner Exhaust Material	Outer Intake Material	
710202NPP	2 in. / 4 in. Condensing 90 Degree Diverter Nose	PP	Plastic	
710215NPP	2 in. / 4 in. Condensing 45 Degree Diverter Nose	PP	Plastic	
229011NPP	2 in. / 4 in. Condensing Horizontal Termination Kit 8.7 in.	PP	Plastic	
229012NPP	2 in. / 4 in. Condensing Horizontal Termination Kit 12 in.	PP	Plastic	
229013NPP	2 in. / 4 in. Condensing Horizontal Termination Kit 21 in.	PP	Plastic	
229016NPP	2 in. / 4 in. Condensing 21 in. Wall Term w/2 wall plates	PP	Plastic	
224356NPP	2 in. / 4 in. Condensing Roof Discharge Term 20 in. Above Roof	PP	Plastic	
229205NPP	2 in. / 4 in. Condensing 45 Degree Elbow Qty 2	PP	Plastic	
229230NPP	2 in. / 4 in. Condensing 90 Degree Elbow Qty 2	PP	Plastic	

# Additional Accessories

Part Number	Description		
146141	Roof Flashing Assembly (flat roof)	Suitable for use with plastic and metal components	
189950	Shingle Roof Flashing (1/12 to 6/12 pitch; plastic)		
189951	Shingle Roof Flashing (6/12 to 12/12 pitch; plastic)		
189952	Shingle Roof Flashing (8/12 to 16/12 pitch; plastic)		
50171949	Tile/Shingle Roof Flashing (1/12 to 6/12 pitch; metal)		
50171961	Tile/Shingle Roof Flashing (6/12 to 12/12 pitch; metal)		
50171954	Tile/Shingle Roof Flashing (8/12 to 16/12 pitch; metal)		
242141	Flashing for Metal Roof		
710342	Rubber Wall Plate (white)		
710602	Rubber Wall Plate (black)		
224045	Thimble (1 piece per box)		
169044	Universal Pipe Clamp - Plastic		
224097	Metal Pass Through Plate		-
224042	Universal Bug Guard		





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Condensing Gas Boiler

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\*AHRI Directory of Certified Product Performance







**IP060160C** Combi Model





**IP199S** Solo Model

# Installation and Venting Components




## 2in. / 4in. Installation Venting Components

Part Number	Description	Inner Exhaust Material	Outer Intake Material	
229253NPP	2 in. / 4 in. Condensing Horizontal Starter Adapter	PP	Plastic	
229308NPP	2 in. / 4 in. Condensing Vent Pipe Extension 10 in.	PP	Plastic	
229309NPP	2 in. / 4 in. Condensing Vent Pipe Extension 19.5 in.	PP	Plastic	
229310NPP	2 in. / 4 in. Condensing Vent Pipe Extension 39 in.	PP	Plastic	
227412NPP	2 In. / 4 In. Condensing Vertical Starter Adapter	PP	Plastic	
185348NPP	2 in. / 4 in. Condensing Roof Term Extension Kit	PP	Plastic	

## 3in. Venting Components

Part Number	Description	Inner Exhaust Material	Outer Intake Material	
196116PVC	3 in. Concentric PVC	PVC	PVC	
196985PVC	Condensing Horizontal Vent Termination, 3" PVC Low Profile Flush Mount	PVC	PVC	

## IPEX Venting Components

Part Number	Description	Inner Exhaust Material	Outer Intake Material	
196005PVC	IPEX 2 in. Concentric Termination 2 x 16	PVC	PVC	
196105PVC	IPEX 2 in. Concentric Termination 2 x 28	PVC	PVC	
196125PVC	IPEX 2 in. Concentric Termination 2 x 40	PVC	PVC	
192984PVC	IPEX PVC Low Profile Termination 2 in.	PVC	PVC	

Additional push button and motion sensors can be purchased separately to customize a recirculation system



# Accessories

## 3in. / 5in. Installation Venting Components

Part Number	Description	Inner Exhaust Material	Outer Intake Material	
<b>223174PP</b>	Condensing Horizontal Termination Kit • 8.7" / 220.9 mm	PP	Plastic	
<b>223176PP</b>	Condensing Horizontal Termination Kit • 12" / 304.8 mm	PP	Plastic	
<b>223177PP</b>	Condensing Horizontal Termination Kit • 21" / 533.4 mm	PP	Plastic	
<b>223186PP</b>	Condensing Horizontal Termination Diverter Kit • 19" / 482.6 mm	PP	Plastic	
<b>184162PP</b>	Condensing Roof Discharge Termination Short (above roof) 38" / 965.2 mm	PP	Plastic	
<b>224047PP</b>	Condensing Raised Horizontal Termination Kit (Snorkel)	PP	Plastic	
<b>185344PP</b>	3"/5" Roof Termination Extension Kit	PP	Plastic	
<b>185346PP</b>	3"/5" Condensing Termination Extension	PP	Plastic	
<b>185347PP</b>	3"/5" Separation Kit	PP	Plastic	
<b>187585PP</b>	Twin Pipe Adapter for use w/ PVC/CPVC (Special Order Only)	PP	Plastic	-
<b>224077PP</b>	45-Degree Elbow (Quantity of 2)	PP	Plastic	
<b>224078PP</b>	90-Degree Elbow	PP	Plastic	
<b>224087PP</b>	Vent Pipe Extension • 10" / 254 mm	PP	Plastic	
<b>224079PP</b>	Vent Pipe Extension • 19.5" / 495.3 mm	PP	Plastic	
<b>224080PP</b>	Vent Pipe Extension • 39" / 990.6 mm	PP	Plastic	



Termination Kits include elbow and rubber wall plate.

# Rinnai®

## Over 100 Years of Smart Comfort



With headquarters in Japan and a global network of subsidiaries and sales offices, Rinnai has enhanced the way businesses and residences heat their water.

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



### 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™ Non-Condensing Tankless Water Heaters** beginning in 2022.

Rinnai continues to make significant investments in expanding its operations and product portfolio.



## Creating a healthier way of living.®

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

**rinnai.us | rinnai.ca**

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Official Water Heater of Tony Stewart Racing



Rinnai supports our Military and First Responders

