

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

**NEW**

**96%  
AFUE**  
featuring  
3 NEW  
Combi Models



**WARRANTY COVERAGE**  
12 Years on the Heat Exchanger  
5 Years on Parts  
1 Year on the Labor

**RINNAI CENTRAL**  
Download our App for Quick  
Easy access to Key Features

Featuring 3 **NEW** Combi Models and **SMART SENSE™** Adaptive Gas Technology

# I-SERIES **PLUS**™

## Designed for Impressive Performance

The **NEW I-SERIES Plus™** line of **Solo** and **Combi Condensing Gas Boilers** offers unmatched value and performance with an expanded product line that features **Smart Sense™ Adaptive Gas Valve** technology. Now with the touch of a button on the unit controller or your smartphone, you can select your fuel type- **conversion kits are no longer required.**

With **I-SERIES Plus™**, **one SKU really can do it all.**

**I-SERIES Plus™** is Bluetooth enabled so it can easily be paired to your handheld device without a Wi-Fi connection. Download the **Rinnai Central®** app to quickly select parameter settings and register the unit, shaving an estimated 15 minutes off every installation.

The **I-SERIES Plus™** offers 4 zone capability, 2" venting up to 75 ft. plus all the same features you enjoyed with the original **I-SERIES**, like a proportional valve that allows for simultaneous delivery of domestic hot water and space heating on all Combi-Units.



### Comfort & Convenience

- Simultaneous delivery of domestic hot water and space heating\*
- **NEW** 4 Built-In Zones for better comfort levels
- **NEW** 7 Heating Reset Curves (6 standard, 1 custom) for consistent temperatures
- **NEW Smart Sense™** Adaptive Gas Valve Technology
- **NEW** Advanced Controls with Intuitive Front Panel Display

### Operational Performance

- Up to 96% AFUE for significant energy savings
- **NEW** Cascade 1 combi unit and up to 23 tankless units\*\*
- **NEW** Common Venting up to 8 units\*\*\*
- Low NOx Emissions ( $\leq 20$ ppm) in Compliance with SCAQMD
- High Altitude Approved up to 10,100 ft.

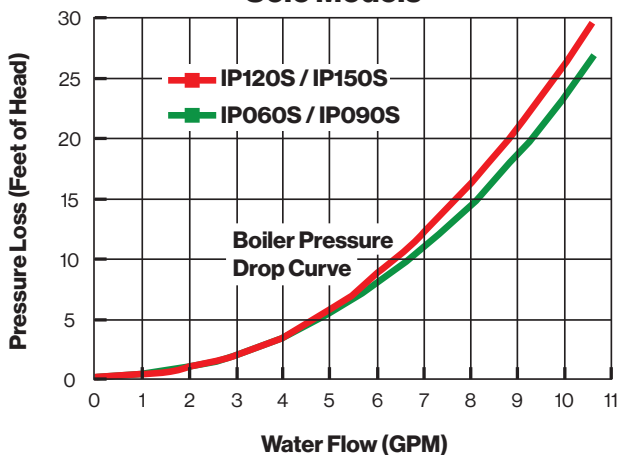
### Flexible Installation

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

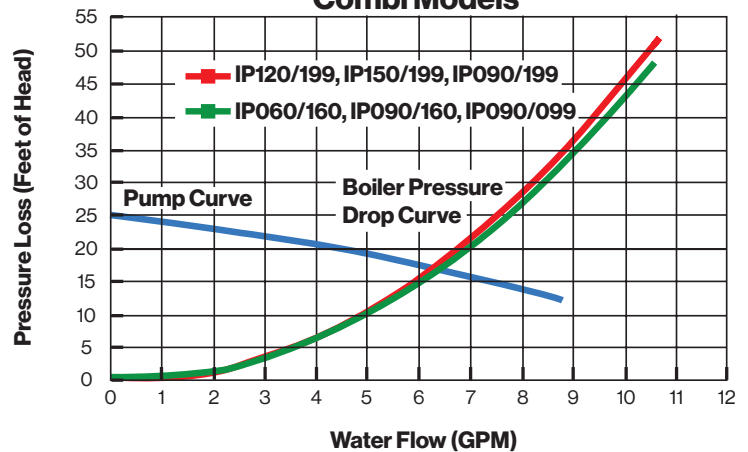
\*Combi Units only \*\*Combi Units  $\geq 120$ k Btu \*\*\*Solo or Combi Units  $\geq 120$ k Btu

## Pressure Drop and Water Flow

### Solo Models



### Combi Models



Rinnai.

# I-SERIES PLUS™

Condensing Gas Boiler

Look inside the I-SERIES Plus™  
High-Efficiency Condensing Boiler  
Re-designed to Perform and Impress

## NEW 2-Inch Intake Vent

Connection is used for room-air configurations (2-in. PVC/CPVC/PP/SS on vent runs up to 75 feet) 3" PVC/CPVC/PP on vent runs up to 160 feet for flexibility and ease of installation

## Combustion Analyzer Port

Fiber Mesh Premix Burner provides even flame distribution for optimal performance at any demand for heat

Primary Stainless Steel Heat Exchanger with brazed joints reduces thermal stress on the Heat Exchanger

Flat Plate Secondary Heat Exchanger 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 Condensate Trap to remove acidic condensate



PC Board and Controller

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

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

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

Integrated Flue Check Valve located between the turbo fan and combustion chamber, prevents cold air from entering the venting system and backflow of exhaust in common vent applications

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

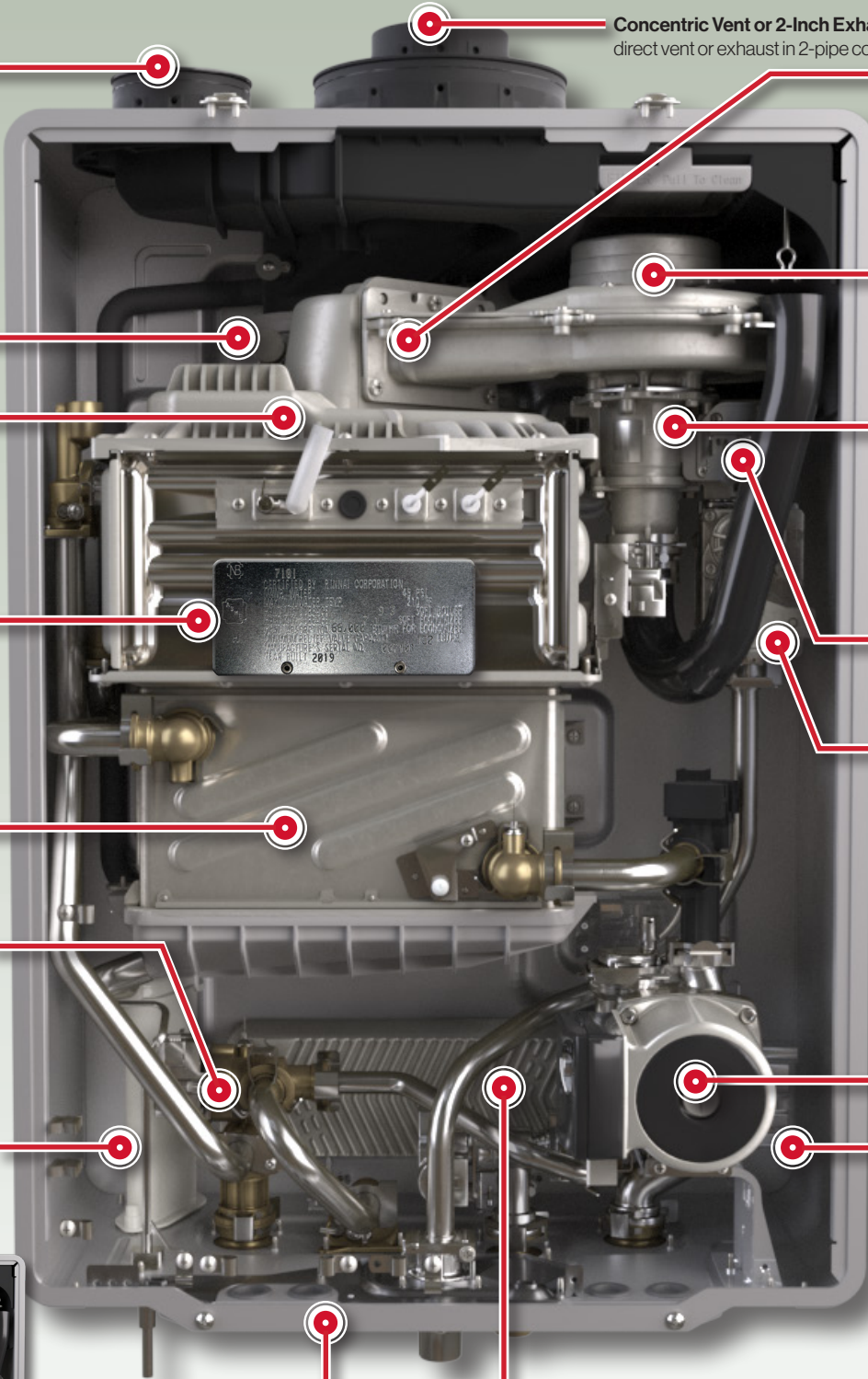
Switching Venturi provides consistent mixture of air and gas to burner for low turn-down ratios and self-compensates in areas with low or fluctuating gas pressures

NEW SMARTSENSE™ Adaptive Gas Technology

Zero Governor Gas Valve targets zero pressure at the outlet allowing flow of gas to occur when there is a negative pressure signal from the Venturi

Integrated Pump (Combi Models only)

Proportional Valve delivers Domestic Hot Water (DHW) and Space Heating (SH) simultaneously without interruption





## I-SERIES Plus™ Heat Only Models



# Rinnai®

# I-SERIES PLUS™

## Condensing Gas Boiler



Specifications	Heat Only Models			
	iP060S	iP090S	iP120S	iP150S
Dimensions - W/H/D Inches (mm)	18.5 in. x 26.4 in. x 11.5 in. (471 mm x 671 mm x 290 mm)			
Unit Weight (lbs/kg)	59.2 lbs (27 kg)		62 lbs (28 kg)	
Fuel Type	NG - Field Convertible to LP/ NG			
Max. Capacity-Heating (MBH)	56 (16 kw)	83 (24 kw)	110 (32 kw)	138(41kw)
Gas Consumption: Max. Input-Heating (MBH)	60,000	90,000	120,000	150,000
Gas Consumption: Min. Input Heating (MBH)	15,000			
Electrical Consumption	36W	50W		
Heating Turndown Ratio (NG and LP)	4:1	6:1	8:1	10:1
AFUE Rating	95.5%	96.0%	96.0%	96.0%
Circulating Pump	Field Supplied			
Approved Venting Material	Polypropylene, Stainless Steel, PVC, CPVC			
	Standard Warranty (some restrictions apply): Residential: 12-year heat exchanger, 5-year parts, 1-year labor Commercial: 5-year heat exchanger, 5-year parts, 1-year labor			
Certifications				
Included in the Box	<ul style="list-style-type: none"> <li>• Wall Mounting Bracket</li> <li>• CH Pressure Relief Valve (30 PSI)</li> <li>• Outdoor Reset Sensor</li> <li>• Integrated Vent Adapter for 2 in. PVC, PP and 3 in. x 5 in. Concentric Venting</li> </ul>			

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™ Combi Models



# Rinnai® I-SERIES PLUS™ Condensing Gas Boiler

Specifications	Combi Models					
	iP060160C	iP090099C	iP090160C	iP090199C	iP120199C	iP150199C
Dimensions - W/H/D Inches (mm)	18.5 in. x 26.4 in. x 11.5 in. (471 mm x 671mm x 290 mm)					
Unit Weight (lbs/kg)	73 lbs (33 kg)			76.1 lb (34.5 kg)		
Fuel Type	NG - Field Convertible to LP/ NG					
Max. Capacity-Heating (MBH)	56 (16 kw)	83 (24 kw)	110 (32 kw)	83 (24 kw)	110 (32 kw)	138(41 kw)
Gas Consumption: Max. Input-Heating (MBH)	60,000	90,000	90,000	90,000	120,000	150,000
Gas Consumption: Max. Input-DHW (MBH)	160,000	99,000	160,000	199,000	199,000	199,000
Gas Consumption: Min. Input Heating (MBH)	15,000					
Electrical Consumption	187W	165W	187W	214W	214W	214W
Heating Turndown Ratio (NG and LP)	4:1	6:1	6:1	6:1	8:1	10:1
DHW Turndown Ratio (NG and LP)	10.7:1	6.6:1	10.7:1	13.3:1	13.3:1	13.3:1
DHW Activation Rate	0.4 GPM					
Max. DHW @ 70° F ΔT	4.1GPM (15.5 L/MIN)	2.5 GPM (9.5 L/MIN)	4.1 GPM (15.5 L/MIN)	5.1 GPM (19.3 L/MIN)	5.1 GPM (19.3 L/MIN)	5.1 GPM (19.3 L/MIN)
AFUE Rating	95.5%	96.0%	96.0%	95.5%	96.0%	96.0%
Circulating Pump	Three speed (Grundfos® UPS 15-78)					
Approved Venting Material	Polypropylene, Stainless Steel, PVC, CPVC					
	Standard Warranty (some restrictions apply): Residential: 12-year heat exchanger, 5-year parts, 1-year labor Commercial: 5-year heat exchanger, 5-year parts, 1-year labor					
Certifications						
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## Additional Accessories



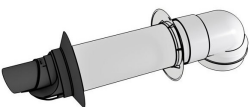




Part Number	Description	
807000212	Primary-secondary heating Kit, I-Series Boiler (Combi Models only)	
807000213	Primary-secondary heating Kit, I-Series Boiler (Heat only)	
804000074	Condensate Neutralizer Kit (All Models)	
809000114	Refill - Condensate Neutralizer (All Models)	
103000038	Scale Cutter 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	

# 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



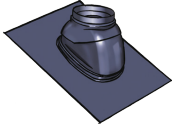






# Accessories

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

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

Termination Kits include elbow and rubber wall plate.

# Additional Accessories

Part Number	Description		
146141	Roof Flashing Assembly (flat roof)		
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	Suitable for use with plastic and metal components	
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		



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

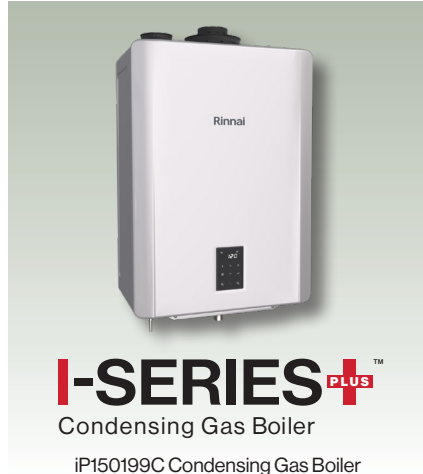


Rinnai America in Griffin, Georgia, USA

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, focusing on its brand promise of **Creating a healthier way of living®**



**I-SERIES PLUS™**  
Condensing Gas Boiler  
iP150199C Condensing Gas Boiler

# 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 stay in step with the demands of a changing world.



Water Heating Solutions



Home Heating Solutions



Commercial Water Heating Solutions

## Every. Detail. Matters.™

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](http://rinnai.us) | [rinnai.ca](http://rinnai.ca)

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