

Simply Smart Engineering.
SIMPLY BETTER HOME HEATING.



CONDENSING BOILERS



Rinnai

COMFORTING WARMTH AND SOOTHING HOT WATER
Delivered From One Smart System.





For nearly 100 years, we at Rinnai have been fiercely committed to delivering nothing less than our absolute best. Through teamwork, technology and innovation, we've become one of the world's largest gas appliance manufacturers, specializing in high-efficiency residential and commercial tankless water heaters and home heating solutions.

When it comes to home heating, it's all about comfort, convenience and reliability. At Rinnai, we design products that let you experience all three. Our extensive line of Condensing Boilers provides efficient whole-home heating, water heating or both in one advanced system.

We are passionately driven to create performance-proven products that exceed your expectations. Today, industry professionals and homeowners alike turn to Rinnai for a variety of product options that make life easier and more enjoyable. Now it's your turn. Start enjoying the comfort and dependability that only a Rinnai Condensing Boiler can deliver.

Simply Smart Engineering. Simply Better



Home and water heating. Keeping comfort coming.

Comfort means different things to different people. Whether it's consistent heat throughout a home, pleasant humidity levels, or continuous hot water, our industry-leading line of Condensing Boilers keeps comfort coming with unparalleled performance.

Improve efficiency - increase comfort: Advanced smart system technology includes an outdoor reset sensor that continually adjusts to changing temperatures.

Hot water without interruption: Our E Series “combi” models have the power to deliver whole-house heating and domestic hot water priority for homes with one to two bathrooms.

Wide range of options: Because comfort is such a personal choice, we offer ten models to give you a wide range of quality options for both existing homes and new construction.

Enduring quality. Lasting peace of mind.

No one can predict the future, but the past is a good gauge of things to come. Rinnai's nearly 100 years of superior engineering, safety and quality inspire peace of mind that our boilers will stand the test of time.

The Rinnai tradition of building in quality at every level with a 12-year heat exchanger warranty* ensures many years of comfort and warmth. And our superior technical support for professionals along with durability testing means peace of mind and performance you can trust.

Main features to ensure quality you can trust:

Stainless steel heat exchanger: Our proprietary self-cleaning, down-fired stainless steel heat exchanger has industry-leading performance and durability.

OSS (one-side sealed) construction: This arrangement maintains integrity during heat exchanger expansion and contraction.

Factory-assembled low-loss header kit: Professionals will save time and money with our convenient factory-assembled low-loss header kit that's shipped with the model.

Integrated boiler pump: Our boiler pump eliminates the need to size the pump for the boiler loop and keeps a tight rein on energy usage.



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

Home Heating. RINNAI CONDENSING BOILERS

Waste not, pay not with superior efficiency.

Conventional heating systems waste energy with significant heat loss vented into the atmosphere. Rinnai Condensing Gas Boilers are designed to recover heat energy that is discharged into the flue and return it to the heat exchanger for maximum efficiency.

Energy-smart performance: Thanks to advanced technology, our condensing boilers have one of the highest AFUEs (Annual Fuel Utilization Efficiency) in the industry.

Consistently comfortable heat: Our modulating gas valve responds to small temperature changes with incremental increases in BTU.

One complete system: Our Condensing Boilers ship with a factory-assembled low-loss header, integrated boiler pump, and pre-programmed outdoor reset sensors. (Factory-assembled low-loss header kit not included with E50C boiler model.)

Efficient warmth: With a fully-modulating boiler pump that uses only as much energy as needed, you will experience a consistent level of warmth throughout your home and steady savings throughout the year.



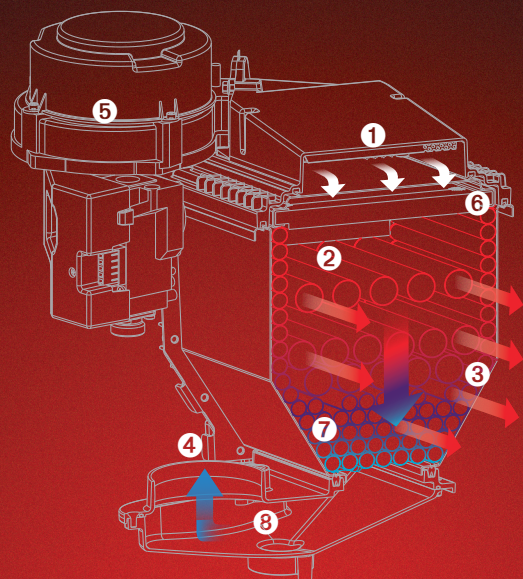
Space to spare, no matter where.

When you're raising the bar on condensing boiler performance and efficiency, reducing space requirements vs. traditional boilers simply comes with the territory. Rinnai Condensing Boilers can be easily retrofitted in existing homes or installed in new construction.

E Series "combi" models: These compact wall-mounted designs provide heating and hot water in one full package.

Floor-standing Q Premier Series: Enjoy a complete, fully-assembled space-saving solution featuring a boiler and tank all-in-one.

Multiple venting options on all models: Our multiple venting options allow for installation in a variety of locations that result in quicker installations and lower labor costs.



- ❶ Gas-Air Mix
- ❷ Combustion of Gas-Air Mix
- ❸ Hot CH Water
- ❹ Flue Gases
- ❺ Fan and Venturi Assembly
- ❻ Upside-Down Ceramic Burner
- ❼ Stainless Steel Pipes
- ❽ Condensate Outlet

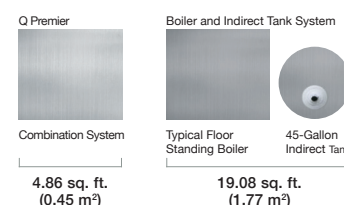
Rinnai Condensing Boilers

Unparalleled comfort and efficiency for your home. That's what you get with our range of economical, reliable and space-saving Rinnai Condensing Boilers. And while a boiler may not be a focal point in your home, its function is of the utmost importance. That's why the way a Rinnai Condensing Boiler is built sets it apart from other available heating and hot-water options.



- ❶ Stainless Steel Heat Exchanger
- ❷ Boiler Pump
- ❸ Three-Way Diverting Valve
- ❹ Expansion Tank (heating loop)
- ❺ Domestic Tank Pump
- ❻ Plate HEX (behind tank pump)
- ❼ Temperature and Pressure Relief Valve
- ❽ 24-Gallon (90 L) Stainless Steel Charged Tank
- ❹ Tank Drain Valve

FOOTPRINT COMPARISON (PRODUCT + CLEARANCES)



Q PREMIER

ALL-IN-ONE RESIDENTIAL HEATING AND DOMESTIC HOT WATER

Perfect for replacement or new construction, these all-in-one floor-standing boilers deliver high-volume hot water and efficient home heating.

BENEFITS UNIQUE TO Q PREMIER

- The QP130 provides 211 gallons (799 L) in the first hour, while the QP85 provides 141 gallons (534 L) for an abundance of hot water.
- The space-saving boiler has more than five times less of a footprint than a traditional boiler and indirect tank system.
- Multiple plumbing and venting options enable easy set-and-connect installation. The boilers come fully-assembled with integrated connections for domestic hot-water recirculation lines, factory-installed low-loss header and expansion tank.
- The zero-clearance installation design is perfect for remodeling.

DOMESTIC WATER COMPARISON

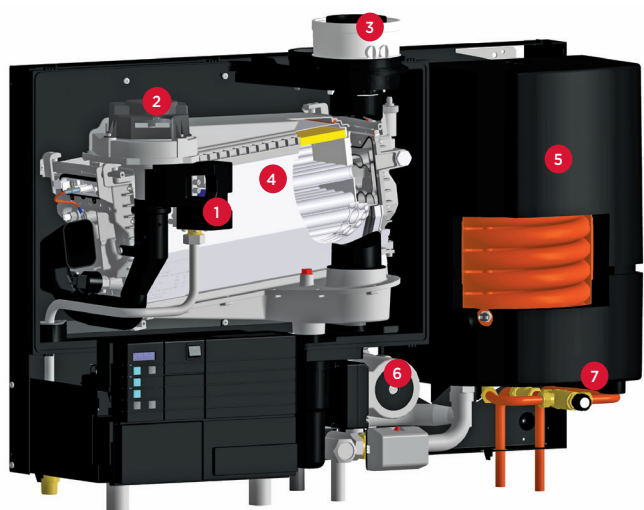
Model	QP130	QP85	Traditional Boiler Installation
Tank Size	24 gal (90 L)		45 gal (170 L)
BTU	130 k	85 k	157 k*
First Hour	211 gal (799 l/hr)**	141 gal (534 l/hr)	212 gal (803 l/hr)***

*141,000 output for domestic.

**Based on AHRI testing standard for indirect-fired water heaters.

***Based on 90° rise.

RINNAI CONDENSING BOILERS



- 1 Gas Valve
- 2 Fan
- 3 Exhaust/Intake
- 4 Stainless Steel Heat Exchanger
- 5 6.6 Gallon (25 L) DHW Indirect Tank (Q175C Model)
- 6 Boiler Pump
- 7 Integrated Thermostatic Mixing Valve for DHW

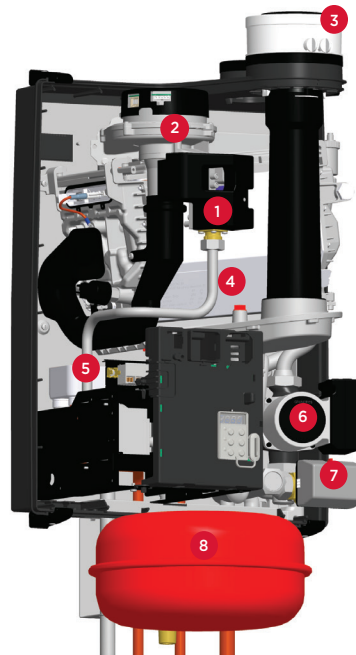
Q SERIES

IDEAL FOR HOMES OR LIGHT COMMERCIAL

An outstanding choice for light-commercial applications or any home with a separate indirect hot-water source, our wall-mounted boilers free up valuable floor space while maintaining maximum comfort in your home.

BENEFITS UNIQUE TO Q SERIES

- The four “S” boiler models deliver energy-efficient home heating and offer an optional 3-way diverter valve to simplify installations that have an indirect tank.
- Consistent temperature is delivered using a thermostatic mixing valve in our Q175C combi heating/hot-water boiler with an onboard 6.6 gallon (25 L) gallon fully-insulated, indirect tank.
- There's no wasted energy with the fully-modulating boiler pump that uses just the BTU needed to meet the immediate demand (The maximum BTU input ranges from 85,000 to 205,000).
- Installation flexibility allows venting up to a total of 200 feet – 100 feet exhaust and 100 feet intake.



- 1 Gas valve
- 2 Fan
- 3 Exhaust/Intake
- 4 Stainless Steel Heat Exchanger
- 5 DHW Plate Heat Exchanger
- 6 Boiler Pump
- 7 Three-Way Motorized Valve Allows Boiler to Switch Between Heating and DHW
- 8 Expansion Tank

E SERIES

HEATING AND HOT WATER IN ONE COMPACT MODEL

Perfect for homes with 1 to 2 baths, E Series Combi Boilers ensure homeowners won't have to sacrifice continuous hot water.

BENEFITS UNIQUE TO E SERIES

- The space-saving, wall-mounted design integrates the boiler pump and heating expansion tank (Excluding the E50C boiler model).
- A plate-warming feature delivers faster hot-water.
- Continuous hot water is available via domestic hot water priority.
- The design provides increased efficiency to meet your home's needs, with a maximum BTU heating input from 75,000 to 110,000.
- A stainless steel domestic hot-water plate heat exchanger creates proven long-lasting durability.
- The E50C is specifically designed for multifamily applications or smaller single-family homes with up to 1.5 baths with no secondary piping or closely-spaced tees required†.

†Not required if the pressure drop in any system loop(s) does not exceed 4.6 feet of head at 4.5 GPM flow rate.

CONDENSING BOILER **MODEL**

	Q Premier Series		Q Series	
				
Models*	QP85	QP130	Q85S	Q130S
Dimensions - w, h, d Inches (mm)	23.6 x 61.8 x 25.2 (600 x 1,570 x 640)	23.6 x 61.8 x 25.2 (600 x 1,570 x 640)	19.7 x 26.8 x 15.2 (500 x 680 x 385)	19.7 x 26.8 x 15.2 (500 x 680 x 385)
Weight** (lbs/kg)	236 lbs (107 kg)	243 lbs (110.2 kg)	110 lbs (50 kg)	117 lbs (53 kg)
Fuel Type	NG, LP with conversion kit	NG, LP with conversion kit	NG or LP, field convertible	NG or LP, field convertible
Max. Heating Capacity (BTU)	78,000 (23 kW)	119,000 (35 kW)	78,000 (23 kW)	119,000 (35 kW)
Min. Input (BTU)	17,000 (5 kW)	26,000 (8 kW)	17,000-NG / 37,000-LP (5 kW-NG / 11 kW-LP)	26,000-NG / 59,000-LP (8 kW-NG / 17 kW-LP)
Max. Input (BTU)	85,000 (25 kW)	130,000 (38 kW)	85,000 (25 kW)	130,000 (38 kW)
Max. Input (BTU-Heating)	85,000 (25 kW)	130,000 (38 kW)	85,000 (25k W)	130,000 (38 kW)
Turn Down Ratio	5:1	5:1	5:1	5:1
DHW Activation Rate (G)	0 Gallon / Minute	0 Gallon / Minute	Indirect Tank Compatible	Indirect Tank Compatible
DHW Activation Rate (LPM)	0 Liter / Minute	0 Liter / Minute		
Max. DHW @ 75° F ΔT	141 Gallon / First Hr***	211 Gallon / First Hr***		
Max. DHW @ 41.7° C ΔT	534 Liter / First Hr***	794 Liter / First Hr***		
AFUE Rating	95.4%	95.4%	95.4%	95.4%
Circulating Pump	Modulating	Modulating	Modulating	Modulating
Storage Capacity	24 Gal (90 L)	24 Gal (90 L)	N/A	N/A
Approved Venting Material	Polypropylene, Stainless Steel, PVC, CPVC			
Warranty†	12-year heat exchanger, 12-year tank, 2-year parts, 1-year labor.			
Certifications	ENERGY STAR®, CSA, NB, IBR, ASME, H			
Included in the box	• PRV • 3” (80 mm) twin pipe adapters for venting (PVC and PP)		• Temperature and pressure gauge • Outdoor reset sensor • 3/4" gas shut-off valve	

* Residential installation only.

** Shipping weight.

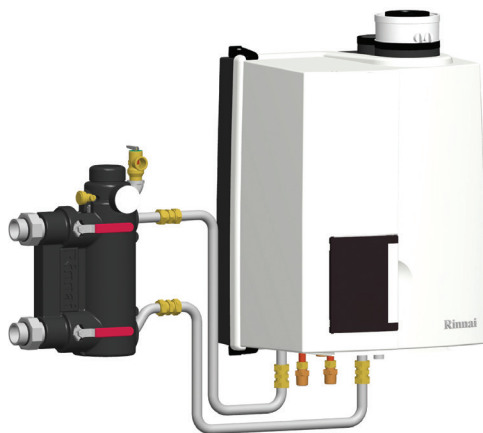
*** Based on AHRI testing standard for indirect-fired water heaters.

CHART SPECIFICATIONS

			E Series		
					
Q175S	Q175C	Q205S	E75C	E110C	E50C
26 x 26.8 x 15.2 (660 x 680 x 385)	39.4 x 26.8 x 15.2 (1,000 x 680 x 385)	26 x 26.8 x 15.2 (660 x 680 x 385)	19.7 x 25.6 x 15.6 (500 x 650 x 395)	19.7 x 25.6 x 15.6 (500 x 650 x 395)	19.7 x 25.6 x 15.6 (500 x 650 x 395)
141 lbs (64 kg)	196 lbs (89 kg)	141 lbs (64 kg)	91 lbs (41 kg)	101 lbs (46 kg)	91 lbs (41.3 kg)
NG or LP, field convertible	NG or LP, field convertible	NG or LP, field convertible	NG or LP, field convertible	NG or LP, field convertible	NG, field convertible
161,000 (47 kW)	161,000 (47 kW)	189,000 (55 kW)	69,000 (20 kW)	101,000 (30 kW)	47,000 (13.8 kW)
35,000-NG / 74,000-LP (10 kW-NG / 22 kW-LP)	35,000-NG / 74,000-LP (10 kW-NG / 22 kW-LP)	41,000-NG / 74,000-LP (12 kW-NG / 22 kW)	17,000-NG / 37,000-LP (5 kW-NG / 11 kW-LP)	26,000-NG / 59,000-LP (8 kW-NG / 17 kW-LP)	13,000 (3.8 kW)
175,000 (51 kW)	175,000 (51 kW)	205,000 (60 kW)	85,000 (25 kW)	130,000 (38 kW)	85,000 (25 kW)
175,000 (51 kW)	175,000 (51 kW)	205,000 (60 kW)	75,000 (22 kW)	110,000 (32 kW)	50,000 (15 kW)
5:1	5:1	5:1	5:1	5:1	6.25:1
Indirect Tank Compatible	0 Gallon / Minute	Indirect Tank Compatible	0.39 Gallon / Minute	0.39 Gallon / Minute	0.39 Gallon / Minute
	0 Liter / Minute		1.77 Liter / Minute	1.84 Liter / Minute	1.84 Liter / Minute
	4.1 Gallon / Minute		2.1 Gallon / Minute	3.2 Gallon / Minute	2.1 Gallon / Minute
	15.5 Liter / Minute		7.9 Liter / Minute	12.1 Liter / Minute	7.9 Liter / Minute
95.0%	95.0%	95.0%	95.5%	95.5%	95.6%
Modulating	Modulating	Modulating	Single Speed	Single Speed	Single Speed
N/A	6.6 Gal (25 L)	N/A	N/A	N/A	N/A
Polypropylene, Stainless Steel, PVC, CPVC					
Standard Warranty (some restrictions apply): Residential: 12-year heat exchanger, 2-year parts, 1-year labor. Commercial: 5-year heat exchanger, 2-year parts, 1-year labor.					Standard Warranty
ENERGY STAR®, CSA, NB, IBR, ASME, H					CSA, NB, H
- Plumbing kit—including pre-assembled low-loss header with isolation valves, PRV, boiler drain, temperature and pressure gauge, unions and insulation 3" (80 mm) twin pipe adapters for venting (PVC and PP) - Wall mounting bracket					- Wall mounting bracket - Outdoor reset sensor - Flow restrictor 3" (80 mm) twin pipe adapters for venting (PVC and PP)

[†]For complete information and details regarding Rinnai's warranty, please visit rinnai.us.

RINNAI CONDENSING



SIDE-MOUNT LOW-LOSS HEADER PIPE KIT*

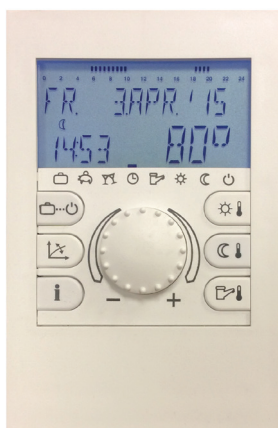
KIT NO.	FITS MODEL NO.	BENEFITS
804000071	E75C / E110C	• Solution for applications with height limitations • Allows installer to connect system components at an optimal height • Saves on time and labor • Mounts to left side of boiler only
804000072	Q85S / Q130S	
804000073	Q175C / Q175S / Q205S	

*Pre-bent pipes only, low-loss header not included in kit.



CONDENSATE NEUTRALIZER KIT

PART NO.	
804000074	• Raises pH before discharge into drain • 1.6 gallons/hour (6.05 liters/hour) • Mounts vertically or horizontally • Fast, simple installation • Clear capsule • Refillable • Parts included

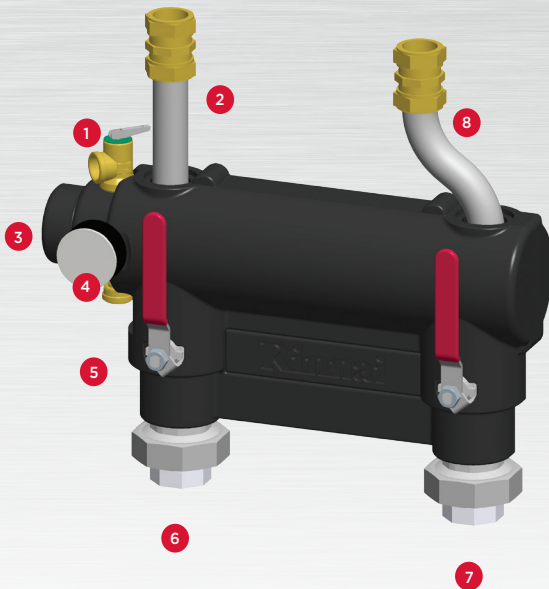


RS100 CONTROLLER**

PART NO.	
RS100	• Simple digital controller with backlit display • Direct communication with boiler • Adaptive indoor reset control • Error reporting and auto service message • Local override of the room temperature • Features three factory preset programs; programmable for holidays • Customized program/profile can be created by user or installer to fit individual needs

**Available for E Series and Q Series models; not available for QP Series.

Low-Loss Header



- | | |
|---------------------------------------|-------------------------------------|
| 1 PRV | 5 Boiler Drain |
| 2 Boiler Supply | 6 Supply System / Di-Electric Union |
| 3 Supply Connection for Indirect Tank | 7 System Return / Di-Electric Union |
| 4 Pressure and Temperature Gauge | 8 Boiler Return |

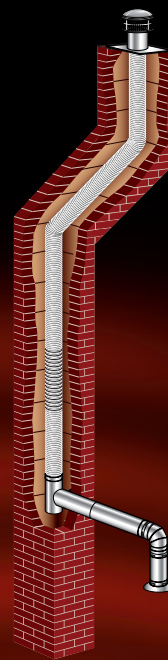
In order to optimize overall performance and provide durability, every Rinnai boiler includes a factory-assembled low-loss header. The easy-to-install low-loss header eliminates the need for balanced pump sizing, simplifying system design.

- Reduced installation time compared to traditional closely-spaced tees with factory-assembled kit
- Space-saving compact design
- More efficient heat transfer and reduced heat loss due to fully-insulated header

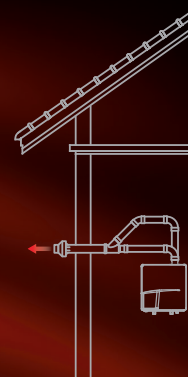
Venting.

FLEXIBLE VENTING OPTIONS FOR RINNAI

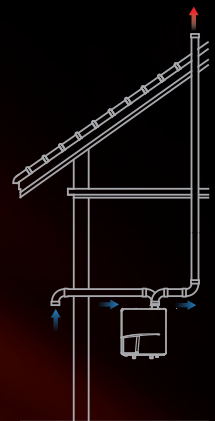
Rinnai Condensing Wall-Mounted Gas Boilers ensure a simple installation in any home, and are ready for direct-vent right out of the box—through either a wall or roof penetration. The twin-pipe adapter included allows venting with outside air intake. A comforting combination of safety and flexibility is available with concentric venting, which permits outside air intake through a single wall or roof penetration.



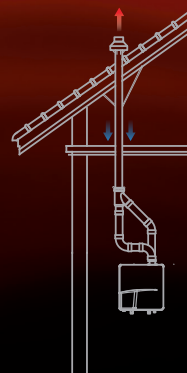
Chimney Liner:
Simpson Fas-n-seal
Duravent flex liner



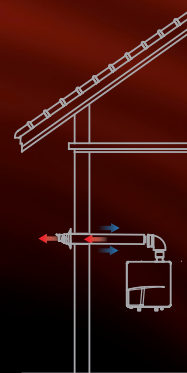
Twin-pipe with concentric
sidewall termination



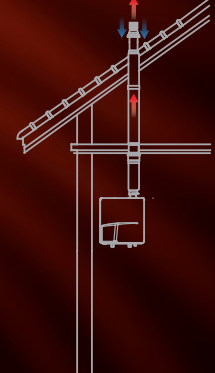
Vertical vent and horizontal
air intake



Twin-pipe with concentric
vertical termination



Concentric pipe with
horizontal sidewall
termination



Concentric pipe with
roof termination

A tradition of **TRUE RELIABILITY.**

For nearly 100 years, we at Rinnai have been fiercely committed to delivering nothing less than a superior experience at every touch point.

Beyond manufacturing the highest quality products, our people stand behind all that we make—before, during and long after installation. From the 24/7/365 technical support for professionals, to our national network of independent installers for homeowners, to on-staff engineers who can assist with choosing the right products and sizes—we're inspiring confidence right along with the comfort our solutions provide.



Rinnai®

Learn more about Rinnai high-performance Tankless Water Heaters,
Hybrid Tank-Tankless Water Heaters, Boilers, Vent-Free Fan Convectors
and EnergySaver® Direct Vent Wall Furnaces at:

www.rinnai.us

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