



# Rinnai®

## THE RINNAI LUXURY SERIES TANKLESS WATER HEATERS

ENERGY-EFFICIENT HOT WATER NEVER LOOKED SO GOOD

WHOLE-HOUSE AND COMMERCIAL TANKLESS WATER HEATING SOLUTIONS



# endless options

flexibility + control



MC-91-1-S Digital Controller Integrated in Internal Unit; Standard Digital Controller for Exterior Unit



MC-100V-1-S Deluxe Digital Controller



BC-100V-1US-S Bath-Fill Digital Controller

## Accessories

Rinnai's line of digital controllers allows you to set water temperature precisely for multiple locations in your home, analyze and troubleshoot the water heater, and even automatically fill your bath to a pre-set temperature and volume. (Note: the MC-91 controller is integrated on the front panel of the RL Series interior units and comes standard with all RL Series exterior units.)

## Flexible Installation

For interior installation, Rinnai units use a *concentric venting system* – a single vent assembly featuring an inner, metal vent for exhaust gases and an outer PVC or metal tube for bringing combustion air from outdoors. The result: a direct-vent, sealed-combustion system that offers optimum safety, performance and ease of installation.

Exterior units can be installed in a recessed enclosure, which can be painted or textured to match your home's panel or brick siding.

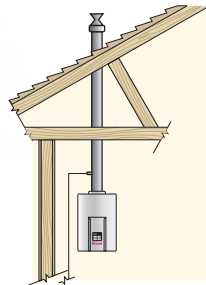
## Multiple Units

If you need more than one unit for your larger home, spa or body spray shower, Rinnai's EZConnect® feature allows you to link two units with a simple cord. For even larger applications, your installer can place up to 25 units in parallel.

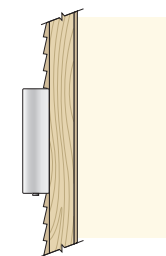
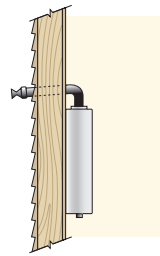


## Other benefits include:

- **Integrated Condensate Collector:** ensures condensation doesn't drain back into unit, and reduces cost of venting.
- **High-Altitude Operation:** all RL Series units can be adjusted for use up to 10,200 ft.



**INTERIOR ROOF OR WALL VENTING**  
The Rinnai can be vented vertically or horizontally.



**EXTERIOR WALL-MOUNT**  
installations require no additional venting accessories.



**CUSTOM INSTALLATIONS** to blend in with the interior (shown at left with optional pipe cover) or to be recessed on an exterior wall of the home.

## More Than 30 Million Installations Worldwide Make Rinnai #1!

At Rinnai, we've sold more tankless water heaters worldwide than anyone else. Our complete commitment to safety, quality, support and the environment has also made us #1 in the U.S. market.

## Tomorrow's Innovation Today

As the leading manufacturer of gas heating products worldwide, Rinnai continues innovating to ensure a greener environment. Rinnai's superior heating and hot water technologies deliver greater efficiency and reliability, so everyone benefits – with environmental preservation and energy conservation that results in a better planet for us all.



Industry and Building Associations





# the Luxury Series

introducing endless hot water for any home



ISOLATION  
VALVES  
INCLUDED  
in every box

## Contemporary Design

Experience a never-ending supply of fresh hot water – and a sleek, sculpted water heater design that reflects the innovative technology within. With their attractive silver finish, Rinnai Luxury Series units are available in interior and exterior models, giving you virtually unlimited flexibility to install your unit wherever you choose.

## Perfect for Any Home

The remarkable combination of design and performance makes the RL Series the perfect choice. Whether you're building a spacious new home – complete with luxurious spa bath and body spray system – or remodeling an older home, RL Series units can be used individually, in pairs, or in banks of three or more to supply all your hot water needs.

Rinnai Luxury Series interior-mount units can be placed in any room – no need to hide them in closets or utility rooms – and vent directly to the outside. Exterior units require no additional venting and can even be installed in a recessed enclosure, then painted or textured to match the exterior of your home for a clean, inconspicuous appearance.

## Improved Performance and Longevity

Whichever RL Series unit you choose, you get the benefit of a commercial-grade heat exchanger for optimum durability. In fact, the same unit can be used for both residential and commercial applications. Homeowners get the reliability of commercial-grade construction, and commercial customers get lower cost and wider availability of units.



RL75i

## Key Features of the Luxury Series

- Sleek, modern design
- Commercial-grade heat exchanger for residential and commercial applications
- Industry-leading activation rate of 0.4 GPM to accommodate low flow fixtures
- EZConnect® (connects two units together)
- Pre-set with a maximum temperature of 120° F, with an option to increase it to 140° F
- Up to 12-year heat exchanger limited warranty (5 years commercial use), 5 years labor and parts. See warranty information on back cover for more details.



Rinnai has ENERGY STAR® qualified models available. Rinnai is committed to making energy efficient products that help consumers and businesses save money and protect the environment.





### Commercial Applications

- Restaurants
- Car Washes, Laundromats
- Schools, Colleges and Universities
- Public Facilities and Event Venues
- Hotels and Motels
- Nursing Homes
- Industrial Facilities



RL94e

### Commercial Quality at Your Fingertips

Both commercial and residential customers benefit from the innovative heat exchanger design of the RL Series. To achieve this level of performance, Rinnai engineers designed the heat exchanger to maximize thermal transfer and minimize thermal stresses. Rigorous high-temperature reliability testing confirmed the design. And now Rinnai delivers to you the most reliable, durable tankless water heater in our history.

This dual-use heat exchanger provides commercial customers a benefit unique to Rinnai: the ability to access a commercial-grade water heater at any of our over 2,000 distribution outlets. So, when emergencies occur and replacement units are needed immediately, you can recover quickly to peak business performance.

### Additional Commercial Features and Benefits:

- Variety of digital controllers allows precise control and monitoring.
- Multi-unit options: the EZConnect® cable (for 2 units) or a multi-unit control system (for up to 25 units ) allows units to be used in combination and in rotation, to avoid wearing out the first unit in a manifolded series and create redundancy.
- All Rinnai units will have isolation valves included in every box to insure professional and serviceable installations.
- Exterior units can be mounted on outside walls or on rooftops with no additional protection or venting.
- Rinnai's concentric venting system means zero clearance, sealed combustion, and single wall or roof penetration for maximum safety and installation simplicity.

Contact Rinnai Applications Engineers to learn more about system configurations and requirements.



Full service restaurant gains extra mechanical room square footage for additional storage plus redundancy by installing multiple units on the exterior wall.



At this 40-room hotel, exterior units are mounted on the rooftop with no additional venting. Hotel owners have experienced 50 percent reduction in therms per occupant room.



High school expands available space in mechanical room with increased efficiency and less capital expense.





### Luxury Series Warranty

**Warranty (some restrictions apply):** Heat exchanger limited warranty 12 years residential; 3 years when used in certain recirculating systems; 10 years when used with a Rinnai hydronic furnace; 5 years in commercial applications. **All other parts:** 5 years. **\*Labor:** 5 years residential and 2 years commercial for Luxury/Ultra models when registered within 30 days of installation, 1 year all other applications. For more warranty details, visit [www.rinnai.us](http://www.rinnai.us) or call 1-800-621-9419.

HOT WATER FLOW CHART		
MODEL NO.	RL94i/e	RL75i/e
TEMP. RISE (°F)	GPM	GPM
140	2.4	2.1
135	2.5	2.2
130	2.6	2.3
125	2.7	2.4
120	2.8	2.5
115	2.9	2.6
110	3.0	2.7
105	3.2	2.9
100	3.3	3.0
95	3.5	3.2
90	3.7	3.3
85	3.9	3.5
80	4.2	3.8
75	4.4	4.0
70	4.7	4.3
65	5.1	4.6
60	5.5	5.0
55	6.0	5.5
50	6.6	6.0
45	7.4	6.7
40	8.3	7.5
35	9.4	7.5
30	9.4	7.5
25	9.4	7.5
20	9.4	7.5

### Interior Residential/Commercial Models

Models available in Natural Gas or Propane	RL75i	RL94i
Dimensions	14" W x 23" H x 10" D	14" W x 23" H x 10" D
Weight	51 lbs	53 lbs
Maximum/Minimum Gas Rate (Input BTU's)	180,000 / 9,900 (NG) 180,000 / 10,300 (LP)	199,000 / 9,900 (NG) 190,000 / 10,300 (LP)
Hot Water Capacity Range	0.26 to 7.5 GPM†	0.26 to 9.4 GPM†
Energy Factor (NG and LP)	.82	.82
Thermal Efficiency (NG and LP)	NA	NA
Temperature Range (Min - Max)		
Residential**	98° F - 140° F	98° F - 140° F
Commercial***	98° F - 160° F	98° F - 185° F
Standard Digital Controller		MC-91-1
Optional Controller		MC-100V-1, BC100V-1, MCC-91-1

### Exterior Residential/Commercial Models

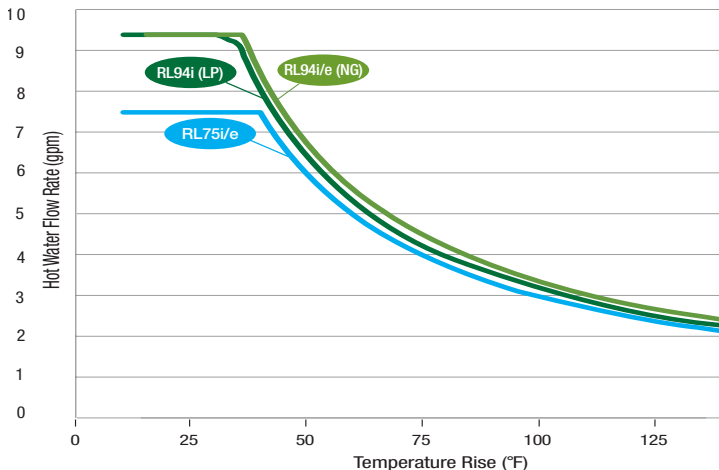
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Standard Digital Controller		MC-91-1
Optional Controller		MC-100V-1, BC100V-1, MCC-91-1

\*\* Units come with a default maximum temperature of 120° F for increased safety and code compliance. An option to increase the max temp to 140° F is also available.

\*\*\* To achieve temperatures over 140° F, an MCC-91 commercial controller must be purchased separately.

† 0.4 GPM activation rate for RL Series

Tankless Water Heater - Maximum Flow Curves



Rinnai is continually updating and improving products; therefore, specifications are subject to change without prior notice. Local, state, provincial and federal codes must be adhered to prior to and upon installation.

## FOR MORE INFORMATION ON RINNAI PRODUCTS

## OTHER RINNAI LITERATURE AVAILABLE



### Rinnai America Corporation

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Visit our Website [www.rinnai.us](http://www.rinnai.us)

E-mail: [marketing@rinnai.us](mailto:marketing@rinnai.us)

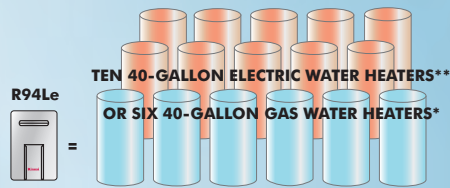


# why tankless?

## at a glance

Unlimited hot water supply maintains consistent, safe temperature.

One Rinnai unit delivers 240 gallons or more per hour with no recovery time.



Based on 77° Rise, \* Based on a 34,000 BTU input.  
\*\* Based on 4,500 Watt elements.

## WHOLE-HOUSE SIMULTANEOUS BATH USE – SIZING CHART

Model	Ground Water Temperature	
	Summer Season – 70° F	Winter Season – 50° F
RL75i/e		
RL94i/e		

- Customer has the option of using the following appliances instead of a shower: residential grade clothes washing machines or dishwashers.
- Shower heads assumed to be 2.5 GPM mixed flow rate or less. If custom shower fixtures i.e. body sprays, large rain heads, or tubs over 60 gallons in capacity are used, please contact Rinnai.
- Bathroom sink faucets assumed to be 2 GPM mixed flow rate or less.
- Assumed mixed temperature on shower heads and bathroom sink faucets to be 104° F.
- Assumed Rinnai set point to be 120° F.
- Assumed 50 psi - 80 psi inlet water pressure for maximum flow.

## <sup>1</sup> ESTIMATED ANNUAL ENERGY COST COMPARISON

Costs less to operate on an annual basis.

Rinnai RL94i	<b>\$223</b>
40-Gallon Gas Tank**	<b>\$281</b>
40-Gallon Electric Tank**	<b>\$492</b>

\* Based Upon DOE Average Energy Costs for 2008 (www.doe.gov)  
\*\* Source: AHRI Consumers Directory of Certified Efficiency Ratings

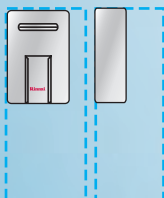
## <sup>2</sup> TANKLESS VS. TANK COMPARISON

Significant space savings over conventional tank water heaters.

Dimensions:  
14" W x 26" H x 10" D vs  
approx. 20" Dia. x 47" H

Space Savings:  
Avg. 12-16 sq. ft.  
Wall mounted  
vs 40-gallon tank

Weight Savings:  
50 lbs. vs approx. 320 lbs.  
or more during use



## Heat Water Only When You Need It!

Tankless water heating is the wave of the future – available to you today. You'll enjoy more than 40 percent energy savings<sup>1</sup>, continuous hot water, and significant space savings<sup>2</sup> – plus a typical life span of 20 years or more in residential applications. And this "green" technology produces less CO<sub>2</sub> and NO<sub>x</sub> than conventional gas or electric tank water heaters.

You see, Rinnai Tankless Water Heaters use natural gas or propane gas to heat water only when needed. When water flow is detected, the Rinnai begins heating water as it passes through its copper heat exchanger. The design of the unit allows it to capture up to 84 percent of the heat energy, making it highly efficient and cost effective.

When the demand for water ceases, the tankless unit shuts down and uses no electricity – a revolutionary advantage over inefficient tank-style heaters. More efficient when it's on, and off when it's off, the Rinnai Tankless Water Heater is the ultimate choice in today's world of high energy costs and environmental preservation.

Additionally, your Rinnai is supported by the most extensive group of professionals in the business. Our nationwide network of more than 20,000 trained and registered installers ensures a trouble-free installation and reliable after-the-sale support.

## Never Run Out of Hot Water

Tankless water heating is one of the few energy-saving technologies that actually improves the quality of your life. You'll delight in continuous hot water – for bathing, cooking, dishes, laundry, and all the other countless ways hot water enriches your life. Plus, our digital controllers give you precise control of the output water temperature for the ultimate in comfort and safety.

## Save Space

Traditional tank water heaters can take up to 16 square feet of valuable floor space. But your Rinnai unit – only about the size of a carry-on suitcase – can be installed on virtually any wall inside or outside your home or building, so you can strategically locate the unit for maximum performance and energy efficiency.



Rinnai RL Series Tankless vs Other Tankless	Rinnai	Other Tankless
Direct-Vent Sealed Combustion	✓	Limited
Free Air Space Requirement (cu. ft.)	3.1	Up to 9,990
Zero-Clearance Venting	✓	Limited
Concentric Vent (One Penetration)	✓	Limited
12-Year Heat Exchanger Warranty**	✓	Limited
24/7/365 Technical Support	✓	Limited
Rinnai RL Series Tankless vs Traditional Tank	Rinnai	40-Gallon Tank
Hot Water Capacity	Unlimited	40 gallons
Digital Control for:		
• Set Temperature	✓	No
• Consistent Temperature	✓	No
• Self-Diagnostics	✓	No
Interior/Exterior Install Options	✓	Interior Only
Warranty/Avg. Service Life (Years)	12**/20	6/12

\*\* Residential: 12 years on heat exchanger, 5 years on all other parts, 5 years labor.  
Commercial: 5 years on heat exchanger and all other parts, 2 years labor.  
See warranty information on back cover for more details.

## Free Manuals Download Website

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