



Rinnai®

THE RINNAI VALUE SERIES REMARKABLE CONVENIENCE. EXTRAORDINARY VALUE. EVEN MORE OPTIONS.

RESIDENTIAL TANKLESS WATER HEATERS

Rinnai ... The Affordable Way to Heat Water

Enjoy the comfort and convenience of continuous hot water at a lower price. Rinnai has expanded the Value Series by adding and upgrading models at the 150,000 and 180,000 BTU levels to suit medium- and smaller-sized homes. Get the reliability and durability only Rinnai can offer, while saving energy and precious floor space.

Features and Benefits of the Value Series

- Two new models: V75i/e and V65i/e
- Available in three models for interior or exterior installation
- ENERGY STAR® qualified
- Energy Factor of .82 for both gas types
- Certified for installation in manufactured (mobile) homes
- Temperature range with controllers: 98°F - 140°F

Additional Features of the V75i/e and V65i/e

- Enhanced scale detection lessens possibility of serious, long-term damage to unit
- Leak detection shuts off water to unit to limit property damage
- Temperature lock prevents accidental or unauthorized changes to water temperature
- Satisfies SCAQMD with requirements of less than 14 ng/J for ultra-low NOx emissions

Rinnai Value Series...The Perfect Combination of Comfort and Value

- **As Much Hot Water as You Want for as Long as You Need.**
Enjoy continuous hot water delivered simultaneously to multiple plumbing and appliance demands.
- **Lower Your Energy Costs.** Heat water only when you need it, and eliminate the expense of continually reheating water in a holding tank.
- **Free Up Valuable Living Space.** Gain as much as 16 square feet of living space in your home when you replace your tank-style water heater with a tankless unit.
- **Perfect for New Homes or Remodeling.** Several models and accessories available to adapt to different installations. Consult your Rinnai installer for your project.
- **Enjoy Peace of Mind.** Rinnai Tankless Water Heaters have a typical life of up to 20 years, which is estimated to be twice the life of a standard tank style unit.*

* Based on DOE ENERGY STAR® lifecycle estimates, tankless water heaters can last up to twice as long as traditional tank units.



V75i



RINNAI VALUE SERIES: A PERFECT FIT FOR YOUR SMALL TO MID-SIZED HOME.



Exterior model

Interior model

Value Series Limited Warranty

Standard Limited Warranty (some restrictions apply) – Residential Only: 10 year heat exchanger, (heat exchanger warranty increases to 12 years when the unit is properly installed with an isolation valve kit*), 5 years for other components and parts, 1 year labor.

www.rinnai.us/warranty

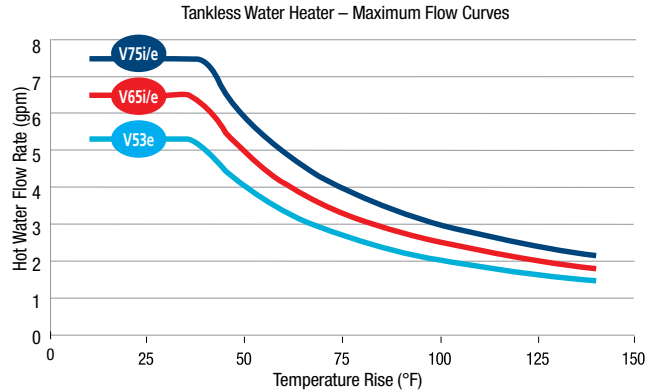
* Isolation Valve Kit available for purchase directly from Rinnai or your local distributor. For complete warranty details, visit www.rinnai.us/warranty or call 1-800-621-9419.



WHOLE-HOUSE SIMULTANEOUS USE

Model	Ground Water Temperature	
	Summer Season – 70° F	Winter Season – 50° F
V53e 1 to 1.5 bath		
V65i/e 2.5 bath		
V75i/e 2.5 bath		

Customer has the option of using the following appliances instead of a shower: residential grade clothes washer 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.



Specifications	V53e (VA)	V65i/e (VC)	V75i/e (VC)
Dimensions	14" W x 21" H x 7" D	14" W x 23" H x 9" D	14" W x 23" H x 9" D
Case Color	White		
Weight	34 lbs.	Interior: 45.6 lbs.; Exterior: 43.6 lbs.	
Ignition	Direct electronic		
Hot Water Capacity	0.6 to 5.3 GPM	0.26 to 6.6 GPM	0.26 to 7.5 GPM
Min. Activation Rate	0.6 GPM	0.4 GPM	0.4 GPM
Min/Max Gas Rate (BTU Input)	NG: 19,000 – 120,000 LP: 20,200 – 120,000	10,300 – 150,000	10,300 – 180,000
Energy Factor	.82 for NG or LP		
ENERGY STAR®	Yes		
Gas Type	Natural Gas (NG) or Propane (LP)		
Temperature Settings	120°F, 140°F**	98°F - 140°F	98°F - 140°F
Type of Controller	Status Monitor	MC-91-2	MC-91-2
Ultra Low NOx	No	Yes	Yes

** Can only be selected by installer. Default temp. setting is 120°F.

Optional Accessories

- MC-91-2-W Digital Controller ("W" refers to model color "white")
- RGB-20U-W Recess Box for V53e ; RGB-25U-C for V65e/V75e (for flush-mounting on exterior wall)
- PCDO3-EWV (V65/V75) or PC-20-W (V53e) Pipe Cover (for concealing plumbing and gas lines)
- EZConnect® cable for connecting two V75/V65 units; MSB for more than two units
- REU-PVA-4 – Pressure activated valves for manifolding 2 or more V53e units.
- Isolation Valve Kit

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

ADDITIONAL RINNAI LITERATURE AVAILABLE



Rinnai America Corporation

103 International Drive
Peachtree City, GA 30269

Toll Free 1-800-621-9419

Phone: 678-829-1700 • Fax: 678-364-8643

Visit our Website www.rinnai.us

E-mail: marketing@rinnai.us

Rinnai®





Rinnai[®]

**THE RINNAI LUXURY SERIES
TANKLESS WATER HEATERS**
ENERGY-EFFICIENT HOT WATER NEVER LOOKED SO GOOD

WHOLE-HOUSE AND COMMERCIAL TANKLESS WATER HEATING SOLUTIONS

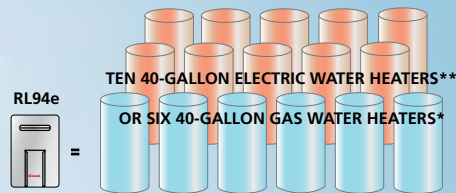


why tankless?

at a glance

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.

¹ ESTIMATED ANNUAL ENERGY COST COMPARISON

Costs less to operate on an annual basis.

Rinnai RL94i	\$225
40-Gallon GasTank**	\$307
40-Gallon Electric Tank**	\$576

* Based Upon U.S. Energy Information Administration average prices for natural gas and electricity (YTD through Oct. 2011)

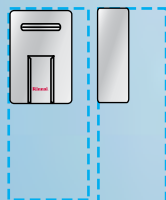
** Based on ACEEE Conventional Storage EF of .60 for gas, and .90 for electric

² 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



Enjoy a Continuous Supply of Hot Water!

At Rinnai, we've made tankless water heating the smart way to deliver a continuous supply of hot water anywhere in your home. Efficient, convenient and affordable, Rinnai Luxury Series units deliver more than 40% energy savings¹, significant space savings², and the luxury of fresh, clean hot water for all your plumbing demands.

Heat Water Only When You Need It.

Rinnai Tankless Water Heaters use natural gas or propane to heat water only when needed. When water flow is detected, the unit begins heating water as it passes through the copper heat exchanger. When the demand for water ceases, the tankless unit shuts down, using no gas or electricity while idle.

Because of its tankless design, the Rinnai unit captures up to 84% of the heat energy, making it highly efficient and cost effective. With its revolutionary advantage over inefficient tank-style heaters, the Rinnai Luxury Series is more efficient when it's on – and off when it's off.

Space-Saving Design Fits Any Home Perfectly.

Whether you're building a spacious new home – complete with luxurious spa bath and body spray system – or remodeling an older home, Luxury Series units can be used individually, in pairs, or in banks of three or more to supply all your hot water needs. Place interior-mount units in any room and vent directly to the outside, saving up to 16 square feet of valuable floor space over a tank-style water heater. Or install the unit on your home's exterior with no additional venting, using a recessed enclosure that can be painted or textured to match your home's construction.



Standard Luxury Series vs Other Tankless	Rinnai	Other Tankless
Direct-Vent Sealed Combustion	✓	No
Concentric Vent (One Penetration)	✓	Limited
Lowest Min. Btu Input (10,300)	✓	No
12-Year Heat Exchanger/5 Years Labor Warranty [†]	✓	No
24/7/365 Technical Support	✓	Limited

[†] Residential: 12 years heat exchanger, 5 years parts, and 1 year labor (5 years labor if registered with Rinnai within 30 days of purchase).

Commercial: 5 years heat exchanger, 5 years parts, 1 year labor (2 years labor if registered with Rinnai within 30 days of purchase).



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.

the Luxury Series

an endless supply of hot water for any home



Get Hot Water Your Way.

A choice of digital controllers lets you customize your hot water experience to suit your usage and life style. Get precise control of water temperature, and enjoy complete comfort, safety and peace of mind.

With Rinnai's Circ-Logic™ program, you also save money on your recirculation system, ensuring you always have "instant" hot water, while also conserving energy. By telling your circulation pump when to operate, at pre-set intervals and temperatures, you eliminate the added expense of a timer and use less energy to keep the recirculation loop warm.

Longer Life – and Unbeatable Support.

With their commercial-grade heat exchangers, Luxury Series units deliver long-lasting performance in both residential settings and commercial applications. Homeowners enjoy the durability of commercial-grade construction, while commercial users get cost savings and access to a nationwide network of more than 2,000 wholesale locations.

What's more, each unit is backed by the most extensive group of support professionals in the business. Rinnai's nationwide network of over 20,000 trained and registered installers ensures a trouble-free installation and reliable after-the-sale support.



RL94i (VC)

Key Features of the Luxury Series

- Up to 40% energy savings¹
- Capacity to supply continuous hot water simultaneously to multiple plumbing fixtures
- Sleek, sculpted design delivers significant space savings²
- Commercial-grade heat exchanger
- Industry-leading activation rate of 0.4 GPM to accommodate low flow fixtures
- Up to 12-year heat exchanger limited warranty (5 years commercial use), 5 years labor and parts.





Commercial Applications

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



RL75e (VC)

Commercial Quality at Your Fingertips

Both commercial and residential customers benefit from the advanced heat exchanger design of the Luxury Series. Thanks to extensive research and rigorous high-temperature reliability testing, the Luxury Series delivers unsurpassed reliability and durability.

What's more, the dual-use heat exchanger affords commercial customers a benefit unique to Rinnai: the ability to access a commercial-grade water heater at any of Rinnai's more than 2,000 distribution outlets. So, when emergencies occur and a replacement water heater is needed immediately, your business can recover quickly to peak performance.



Additional Commercial Features and Benefits:

- Multi-unit options: EZConnect® cable (for 2 units) or MSB control system (for up to 25 units) allow units to be used in combination and in rotation, to avoid wearing out the first unit in a manifolded series
- Rinnai's concentric venting system means zero clearance, sealed combustion, and single roof or wall penetration for safety and ease of installation
- Nine temperature increments above 140° F for greater flexibility

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 occupied room.



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

endless options

flexibility + control



MC-91-2-S
Digital Controller
Built-in Interior
Unit; Standard
Digital Controller
for Exterior Unit



BC-100V-1US-5
Bath-Fill Digital
Controller



MC-100V-1-S
Deluxe Digital
Controller

New Features for 2012

- Built-in Rinnai Circ-Logic™ recirculation program** cycles an external pump at pre-set intervals and temperatures to maximize efficiency and save money
- Enhanced scale detection lessens possibility of serious, long-term damage to unit
- Leak detection shuts off water to unit to limit property damage
- Temperature lock function prevents accidental or unauthorized changes to water temperature
- Satisfies SCAQMD with requirements of less than 14 ng/J for ultra-low NOx emissions



Scale Control
System

Other benefits include

- Isolation valves included, to ensure professional and serviceable installation
- Integrated condensate collector prevents draining of condensation into unit and reduces cost of venting
- High-altitude operation: can be adjusted for use up to 10,200 ft.

**More details on back cover

Accessories

Rinnai's leading-edge technology extends beyond each Luxury Series unit to include accessories that help your tankless water heater perform to its utmost.

- **Digital controllers** – set water temperature precisely for multiple locations; automatically fill bath to pre-set temperature/volume; analyze and troubleshoot unit. (MC-91 controller built-in on interior units, included standard with all exterior units.)
- **Scale control system** – extend unit life, reduce maintenance and save energy by controlling limescale and corrosion caused by hard water.

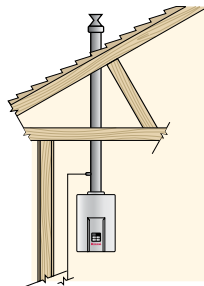
Flexible Installation

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 require no additional venting and can be installed in a recessed enclosure, which can be painted or textured to match your home's siding.

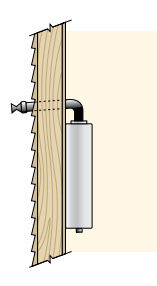
Multiple Units

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, install with the MSB controller to connect up to 25 units in parallel.



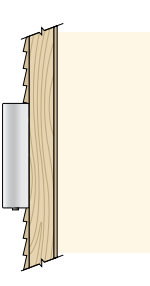
INTERIOR ROOF OR WALL VENTING

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 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 "Green" Technology Today



With their leading-edge technology, Rinnai tankless water heaters produce less CO₂ than conventional gas or electric tank water heaters. As Rinnai continues to innovate, creating heating and hot water products that deliver greater efficiency and reliability, we'll all benefit – with environmental preservation and energy conservation that results in a better planet for us all.



Luxury Series Limited Warranty

Standard Limited Warranty (some restrictions apply) – Residential: 12 year heat exchanger, 5 year parts and 1 year labor, extended to 5 year labor when unit is registered with Rinnai within 30 days of purchase*.
Commercial: 5 year heat exchanger, 5 year parts, 1 year labor, extended to 2 year labor when unit is registered with Rinnai within 30 days of purchase*.

www.rinnai.us/warranty

*Offering of an extended 5 year labor warranty when the unit is installed in a residential application and 2 year labor warranty when the unit is installed in a commercial application if the product is registered with Rinnai within 30 days of purchase. Product registration is not required for the extended term in California, Quebec, or other jurisdictions that prohibit warranty benefits conditioned on registration. For complete warranty details, visit www.rinnai.us/warranty or call 1-800-621-9419.

HOT WATER FLOW CHART			
MODEL NO.	RL94i/e (VC)	RL75i/e (VC)	
TEMP. RISE (°F)	GPM	GPM	
100	3.3	3.0	
95	3.5	3.1	
90	3.7	3.3	
85	3.9	3.5	
80	4.1	3.7	
75	4.4	4.0	
70	4.7	4.3	
65	5.1	4.6	
60	5.5	5.0	
55	6.0	5.4	
50	6.6	6.0	
45	7.3	6.6	
40	8.3	7.5	
35	9.4	7.5	
30	9.8	7.5	
25	9.8	7.5	

Interior Residential/Commercial Models

Models available in Natural Gas or Propane	RL75i (VC)	RL94i (VC)
Dimensions	14" W x 23" H x 9.3" D	14" W x 23" H x 9.3" D
Weight	46 lbs (21 kg)	46 lbs (21 kg)
Maximum/Minimum Gas Rate (Input BTUs)	180,000/10,300 (NG/LP)	199,000/10,300 (NG/LP)
Hot Water Capacity Range	0.26 to 7.5 GPM†	0.26 to 9.8 GPM†
Energy Factor (NG and LP)	.82	.82
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-91-2
Optional Controller		MC-100V-1, BC100V-1, MCC-91-2
SCAQMD Ultra Low NOx	Yes	NA

Exterior Residential/Commercial Models

Models available in Natural Gas or Propane	RL75e (VC)	RL94e (VC)
Dimensions	14" W x 23" H x 9.3" D	14" W x 23" H x 9.3" D
Weight	44 lbs (20 kg)	44 lbs (20 kg)
Maximum/Minimum Gas Rate (Input BTUs)	180,000/10,300 (NG/LP)	199,000/10,300 (NG/LP)
Hot Water Capacity Range	0.26 to 7.5 GPM†	0.26 to 9.8 GPM†
Energy Factor (NG and LP)	.82	.82
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-91-2
Optional Controller		MC-100V-1, BC100V-1, MCC-91-2
SCAQMD Ultra Low NOx	Yes	Yes

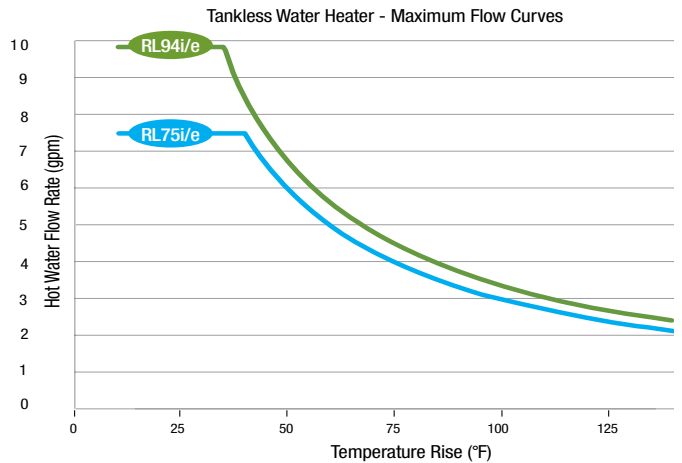
** Units come with a default maximum temperature of 120° F for increased safety and code compliance. An option to increase the max temp to 140° F is also available.

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

† 0.4 GPM activation rate for Luxury Series

**** Ultra Series Models (KB) – Circ-Logic™ Availability**
 Beginning April 2012, KB models with serial numbers higher than those listed below will ship with Circ-Logic installed. Lower serial numbers do not have Circ-Logic.

Model	Serial Number	Part Number
RL75i (VC)	–	REU-VC2528 FFUD-US (A)
RL75e (VC)	–	REU-VC2528WD-US (A)
RL94i (VC)	DB.CA-016788	–
RL94e (VC)	DC.BA-013335	–



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

SCAN WITH YOUR SMARTPHONE



OTHER RINNAI LITERATURE AVAILABLE

ULTRA SERIES CONDENSING TANKLESS WATER HEATERS



HYDRONIC FURNACES



DIRECT VENT WALL FURNACES



Rinnai America Corporation

103 International Drive
 Peachtree City, GA 30269

Toll Free 1-800-621-9419

Phone: 678-829-1700 • Fax: 678-364-8643

Visit our Website www.rinnai.us

E-mail: marketing@rinnai.us





Rinnai®

THE NEW RINNAI ULTRA SERIES ULTRA CONDENSING TECHNOLOGY. SAME TANKLESS BENEFITS. INCREDIBLE EFFICIENCY.

RINNAI ULTRA SERIES CONDENSING TANKLESS WATER HEATERS

Rinnai takes tankless water heating one step further with condensing technology that delivers more efficiency than ever before. Enjoy all the same tankless benefits you've come to expect from Rinnai, plus even greater energy savings.

With four condensing models to choose from, there's one right for any sized home. Delight in a continuous supply of fresh, clean hot water, and experience the space savings, convenience, ease of installation and peace of mind for which Rinnai is famous.

Unrivalled Technology. Unmatched Performance.

Rinnai's unique condensing design incorporates two innovative heat exchangers to achieve optimum heating value from every cubic foot of natural gas or propane. Residual heat from flue gases is recaptured to pre-heat incoming ground water, which then circulates to the primary copper heat exchanger.

The top-down burner design increases reliability and ensures a longer service life, while also reducing lifetime operating and maintenance costs. With the burner located above the condensing heat exchanger, the burner and copper heat exchanger are protected from condensate.

Delivering an Energy Factor (EF) up to .96, Rinnai's tankless condensing units are ideal for residential and commercial applications and can be banked together for even greater capacity.

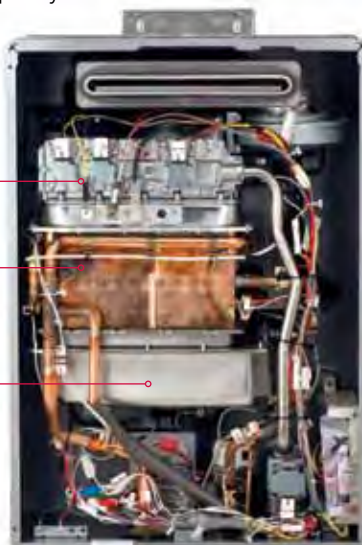
Top-Down Burner Design
Enhances Reliability and Service Life,
Reduces Maintenance

Top-Down Ceramic Burner

Primary Heat Exchanger

Condensate drains down

Secondary Heat Exchanger



RU98e

RU98i



Benefits at a glance

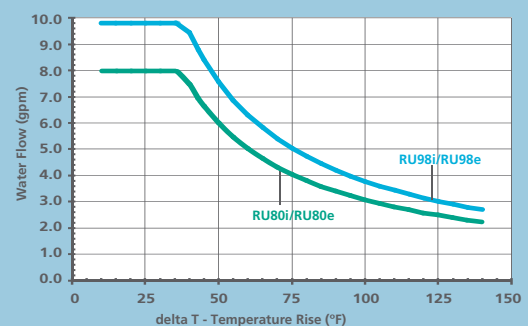
- Energy Factor (EF) up to .96*
- Capacity to supply continuous hot water simultaneously to multiple plumbing fixtures
- Significant space savings over tank-style water heaters
- Flexible indoor or outdoor installation options
- Pair with hydronic furnace for efficient home heating
- ENERGY STAR® qualified

New for April 2012

- Built-in Rinnai Circ-Logic™ recirculation program** cycles an external pump at pre-set intervals and temperatures to maximize efficiency and comfort
- Leak detection shuts off water to the interior units to limit property damage
- Temperature lock function prevents accidental or unauthorized changes to water temperature
- Enhanced scale detection lessens possibility of serious, long-term damage to unit

* RU80 models

** More details on back cover



Rinnai Ultra Series Condensing Tankless Water Heaters

Residential/Commercial Models

Models available in Natural Gas or Propane	RU98i (KB) (Interior)	RU98e (KB) (Exterior)	RU80i (KB) (Interior)	RU80e (KB) (Exterior)
Dimensions	W 18.3" (466 mm) H 26" (650 mm) D 10" (254 mm)		W 18.3" (466 mm) H 26" (650 mm) D 10" (254 mm)	
Weight	61.7 lbs (28 kg)		70.5 lbs (32 kg)	
Minimum / Maximum Gas Rate (Input BTUs)	15,200 / 199,000 (NG or LP)		15,200 / 152,000 (NG or LP)	
Hot Water Capacity Range	0.26 to 9.8 GPM†		0.26 to 8.0 GPM†	
Energy Factor (NG or LP)	.95	.95	.96	.96
Temperature Range*** (Min - Max)	Residential: 98° F - 140° F Commercial: 98° F - 185° F			
Standard Digital Controller	MC-91-2			
Optional Digital Controller	MC-100V-1, BC100V-1, MCC-91-2 (Digital Controller)			

*** Factory default temperature is set at 98° F - 120° F - maximum temperature is selectable at 120° F or at 140° F. To achieve temperatures over 140° F, an MCC-91 commercial controller must be purchased separately.

† 0.4 GPM activation rate for RU Series

**Ultra Series Models (KB) – Circ-Logic™ Availability

Beginning April 2012, KB models with serial numbers higher than those listed below will ship with Circ-Logic installed. Lower serial numbers do not have Circ-Logic.

RU98i	(REU-KB3237FFUD-US)	DB.BA-006175
RU98e	(REU-KB3237WD-US)	DB.BA-006213
RU80e	(REU-KB2530WD-US)	DB.BA-006195
RU80i	(REU-KB2530FFUD-US)	DB.BA-006201

Polypropylene Concentric Venting

The safe and cost-effective choice in venting

Rinnai's proprietary concentric venting system – engineered especially for condensing technology – features a polypropylene inner pipe, designed to withstand varying flue conditions over the life of the appliance. No other venting solution provides this same high level of safety, reliability and cost-efficiency.

CONDENSATE NEUTRALIZER KIT

- Raises pH before discharge into drain
- 1.6 gallons/hour (6.05 liters/hour)
- Mounts vertically or horizontally
- Fast, simple installation
- Clear, refillable capsule

Accessories

SCALE CONTROL SYSTEM

Rinnai's Scale Control System helps control limescale and corrosion by feeding a special blend of scale-control compounds into the water stream.

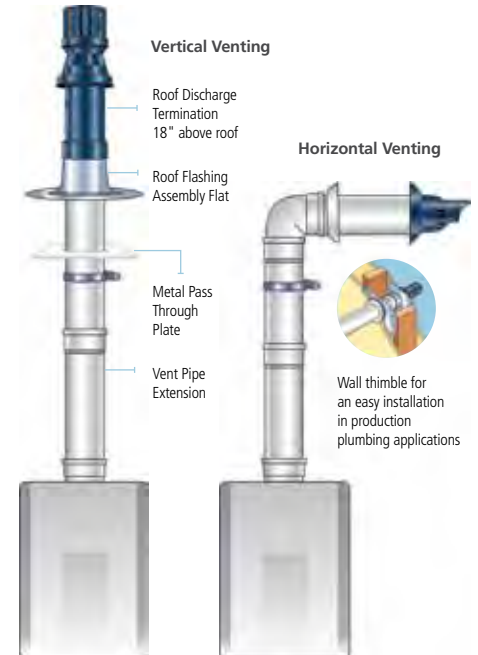


Ultra Series Limited Warranty

Standard Limited Warranty (some restrictions apply) – Residential: 12 year heat exchanger, 5 year parts and 1 year labor, extended to 5 year labor when unit is registered with Rinnai within 30 days of purchase*.
Commercial: 5 year heat exchanger, 5 year parts, 1 year labor, extended to 2 year labor when unit is registered with Rinnai within 30 days of purchase*.

www.rinnai.us/warranty

*Offering of an extended 5 year labor warranty when the unit is installed in a residential application and 2 year labor warranty when the unit is installed in a commercial application if the product is registered with Rinnai within 30 days of purchase. Product registration is not required for the extended term in California, Quebec, or other jurisdictions that prohibit warranty benefits conditioned on registration. For complete warranty details, visit www.rinnai.us/warranty or call 1-800-621-9419.



FOR MORE INFORMATION ON RINNAI PRODUCTS

ADDITIONAL RINNAI LITERATURE AVAILABLE

RESIDENTIAL TANKLESS WATER HEATERS



HYDRONIC FURNACES



DIRECT VENT WALL FURNACES



Rinnai America Corporation

103 International Drive
Peachtree City, GA 30269

Toll Free 1-800-621-9419

Phone: 678-829-1700 • Fax: 678-364-8643

Visit our Website: www.rinnai.us

E-mail: marketing@rinnai.us

Rinnai





RINNAI ULTRA LOW NO_x TANKLESS WATER HEATERS

MEETING SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT'S REQUIREMENTS

The Importance of Ultra Low NO_x

Rinnai America Corporation is proud to offer a line of ultra-low NO_x (nitrogen oxide) Tankless Water Heaters that meet the South Coast Air Quality Management District's (SCAQMD) NO_x requirements pursuant to Rule 1146.2, which requires Type 1 units to comply by January 1, 2012.

The following water heaters meet this requirement in California:

MODELS	TYPE OF UNIT	EF	Flow at a 60° Temp. Rise	Est. Availability Date of ULNO _x
RL94e	Outdoor	.82	5.6 GPM	Mar. 2012
RL75i	Indoor	.82	4.9 GPM	Mar. 2012
RL75e	Outdoor	.82	4.9 GPM	Mar. 2012
RU80i	Indoor	.96	5.0 GPM	Feb. 2012
RU80e	Outdoor	.96	5.0 GPM	Feb. 2012
RU98i	Indoor	.95	6.4 GPM	Feb. 2012
RU98e	Outdoor	.95	6.4 GPM	Feb. 2012

Due to its high efficiency and clean burning technology, these tankless units produce less CO₂ and NO_x than ever before. Rinnai Tankless Water Heaters also 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 98 percent of the heat energy, making it highly efficient and cost effective.

When the demand for water ceases, the tankless unit shuts down. 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.

Other Benefits:

- Endless hot water for bathing, cooking, washing dishes or laundry
- Digital controllers for precise control of water temperature for comfort and safety
- Compact, wall-mount design affords flexible location for installation and saves space
- Utilizes concentric venting systems offering optimum safety and performance



Key Features and Benefits

- Sleek, modern design
- Commercial-grade heat exchanger for residential and commercial applications
- Industry-leading activation rates as low as 0.4 gallons per minute
- Pre-set with a maximum temperature of 120°F, with an option to increase it to 140°F
- Integrated Condensate Collector: ensures condensation doesn't drain back into unit, and reduces cost of venting
- High-Altitude Operation: units can be adjusted for use up to 10,200 ft



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.

SPECIFICATIONS

Interior Residential/Commercial Models

	RL75i (Non-Condensing)	RU80i (Condensing)	RU98i (Condensing)
Dimensions	22.9" W x 14" H x 9.3" D	25.7" W x 18.5" H x 10.1" D	26.4" W x 18.5" H x 10.5" D
Weight	45.6 lbs	70.5 lbs	70.5 lbs
Maximum BTU	180,000	152,000	199,000
Minimum BTU	9,900	15,200	15,200
Activation Rate	0.4 GPM	0.4 GPM	0.4 GPM
Hot Water Capacity Range	0.26 - 7.5 GPM	0.26 - 8.0 GPM	0.26 - 9.8 GPM
Energy Factor (NG and LP)	0.82	0.96	0.96
Temperature Range (Min - Max)		98° F - 140° F	
Residential*		98° F - 185° F	
Commercial**			
Standard Digital Controller	Built-in MC-91-1		

Exterior Residential/Commercial Models

	RL75e (Non-Condensing)	RL94e (Non-Condensing)	RU80e (Condensing)	RU98e (Condensing)
Dimensions	22.9" W x 14" H x 9.3" D	22.9" W x 14" H x 9.3" D	25.7" W x 18.5" H x 10.1" D	25.7" W x 18.5" H x 10.1" D
Weight	43.6 lbs	44.3 lbs	70.5 lbs	70.5 lbs
Maximum BTU	180,000	199,000	152,000	199,000
Minimum BTU	9,900	9,900	15,200	15,200
Activation Rate	0.4 GPM	0.4 GPM	0.4 GPM	0.4 GPM
Hot Water Capacity Range	0.26 - 7.5 GPM	0.26 - 9.8 GPM	0.2 - 8.0 GPM	.26 - 9.8 GPM
Energy Factor (NG and LP)	0.82	0.82	0.96	0.95
Temperature Range (Min - Max)			98° F - 140° F	
Residential*			98° F - 185° F	
Commercial**				
Standard Digital Controller	Built-in MC-91-1			

NOTE: Models available in Natural Gas or Propane

* 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.



Luxury/Ultra 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 or call 1-800-621-9419.

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

ADDITIONAL RINNAI LITERATURE AVAILABLE



Rinnai America Corporation

103 International Drive
Peachtree City, GA 30269

Toll Free 1-800-621-9419

Phone: 678-829-1700 • Fax: 678-364-8643

Visit Our Website: www.rinnai.us

E-mail: marketing@rinnai.us





Rinnai®

SCALE CONTROL SYSTEM

FOR USE WITH RINNAI TANKLESS WATER HEATERS

Is Your Water Too Hard?

Dissolved minerals found in most water supplies can lead to the formation of mineral scale deposits, or limescale, on exposed surfaces. Depending on your location, you may experience a higher concentration of these scale-forming minerals, resulting in what is commonly called "hard water." Like most water-fed appliances, Rinnai Tankless Water Heaters can be sensitive to limescale accumulation caused by hard water.

Without proper maintenance, limescale build-up in your tankless water heater leads to a drop in water temperature, requiring more energy to maintain your desired temperature. Extensive use of hard water can also decrease the life expectancy of your tankless unit.

To maintain peak performance and efficiency, Rinnai's Scale Control System provides limescale and corrosion control by feeding a special blend of compounds into the water stream. This simple, easy-to-use system delivers consistent scale control over a predictable time frame, without the need for electricity.

How It Works

The Rinnai Scale Control System is installed on the cold water line prior to your tankless unit. As water passes through, a small amount of scale control product is dissolved into the water stream.

Over time, the scale control product is depleted, and the translucent cartridge will indicate that a replacement is needed. Cartridge life depends on cartridge size and water usage, however, in most residential applications, a cartridge typically lasts 10-12 months. The degree of water hardness does not affect the product feed rate.

Benefits at a Glance

A Rinnai Scale Control System offers many of the same advantages as conventional water softening systems, yet it costs less, requires less space, and requires less maintenance.

Advantages include:

- Controls limescale formation
- Provides corrosion control on wetted surfaces
- This could extend the life of your Rinnai Tankless Water Heater by maintaining peak performance and efficiency
- Reduces equipment maintenance costs
- Compact size and ease of installation



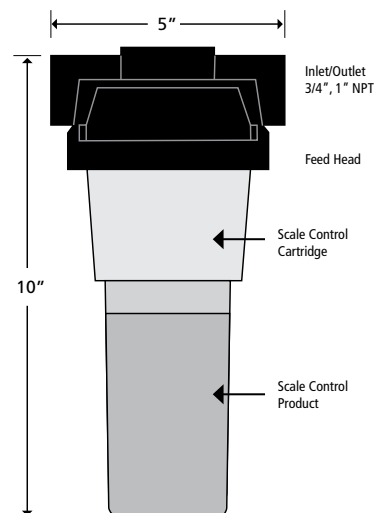
PRODUCT SPECIFICATIONS

Models

Part Number	Description	Carton Dimensions	Shipping Weight (lbs)	Max PSI
103000022	Scale Control - Water Heater Only 3/4" feed	10" x 5" x 5"	2.2	120*
103000023	Scale Control - Whole Home 3/4" feed		2.5	
103000024	Scale Control - Whole Home 1" feed		2.5	
103000025	Scale Control Refill - Water Heater Only		1.5	
103000026	Scale Control Refill - Whole Home		1.75	

Call Rinnai for commercial applications

*Verify that the water pressure does not exceed 120 psi. Use a pressure regulator if necessary.



NOTE: Installation on cold water line only. Do not install the unit where it is exposed to direct sunlight. If installed outdoors, ensure the system is covered or protected from exposure to direct sunlight and freezing.

United States Water Hardness Map



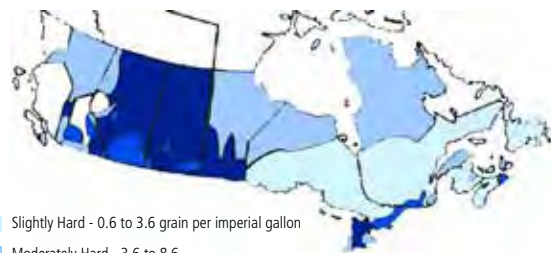
Reference:

http://www.qualitywatertreatment.com/city_water_guide.htm

NOTE: This map is for general use, for specific information, please contact local water authorities.

- Over 11 gpg ■ Extremely Hard
- 10 to 14 gpg ■ Very Hard
- 7 to 10 gpg ■ Hard
- 3 to 7 gpg ■ Moderately Hard
- Less than 3 gpg ■ Slightly Hard

Canada Water Hardness Map



- Slightly Hard - 0.6 to 3.6 grain per imperial gallon
- Moderately Hard - 3.6 to 8.6
- Hard - 8.6 to 14.4
- Very Hard 14.4 and over

Source: siftocanada.com

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DUAL PIPE VENTING BY CENTROTHERM

FOR USE WITH RINNAI CONDENSING TANKLESS WATER HEATERS

Rinnai America Corporation, the leader in tankless water heaters, is pleased to offer our customers a new venting option for our line of Condensing Tankless Water Heaters - dual pipe venting using Polypropylene-s (PPs, exhaust flue and intake) or PVC (for intake only).

The PPs exhaust flue venting is a product called InnoFlue[®] made by Centrotherm EcoSystem, a sister company of our concentric venting supplier, Ubbink. It is the same material as the exhaust vent in our current condensing concentric venting.

Polypropylene-s is far superior to PVC as exhaust venting. It has a maximum temperature rating of 230°F (110°C), compared to 146°F (65°C) for PVC and 194°F (90°C) for CPVC. And, unlike PVC and CPVC, PPs has been specifically engineered and certified to be used with condensing tankless water heaters.

Benefits of the “dual pipe” option with PPs exhaust flue venting:

- Engineered especially for gas appliance venting
- Positive fit and lock allows for secure joints; no cement or curing necessary
- Easier to locate venting in tight spaces, such as between ceiling and sub-floor
- Helps to prevent recirculation and freezing in cold climates
- Zero clearance to combustibles
- 10-year warranty on InnoFlue[®] PPs venting
- UL-1738, ULC-S636 and CE EN-14471 listed
- InnoFlue[®] is 100% recyclable, earning LEED points by eliminating solvent-based primers and adhesives

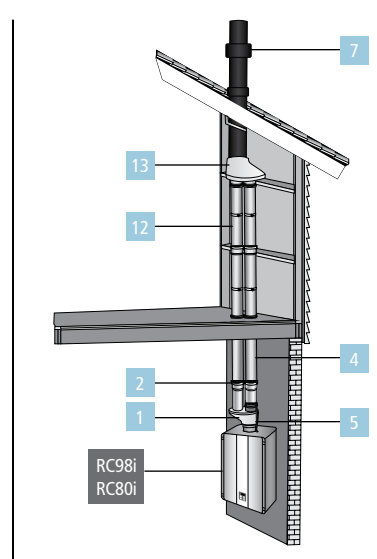
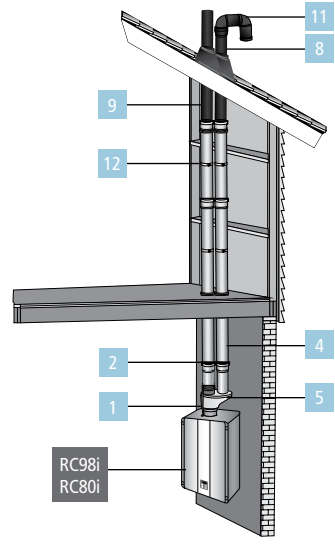
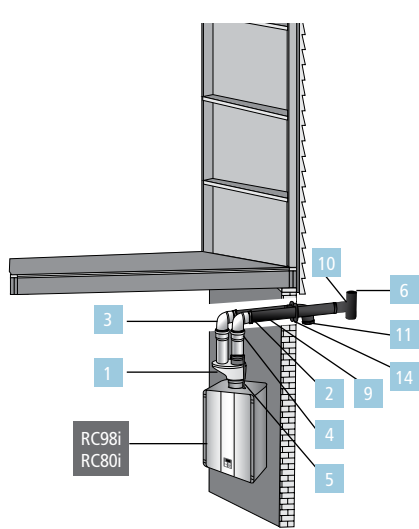


Vent Length Table*			
	Long-sweep elbow, RC80iN/P and RC98iN/P	Short-radius elbow, RC80iN/P	Short-radius elbow, RC98iN/P
Maximum Vent Length with one 90° elbow and termination	39'	27'	

*For more detailed information on vent lengths, please consult the InnoFlue[®] instruction manual. All vent lengths above include one concentric-to-dual pipe adapter at the appliance.



1 	2 	3 	4 	5 	6 	7 	8 
9 	10 	11 	12 	13 	14 		
ICCT3503: Concentric to Twin Pipe Adaptor	IAN503 Connector	ISELR0387 87° Elbow	ISVL03 Vent Length	IAHS03 Hurricane Strap	IASPP03: Bird Screen PPs-UV		
ISEP03 End Pipe PPs-UV	ISTT03: Termination Tee PPs-UV	ISELL0387: 87° Elbow Long PPs-UC	IASC03 Support Clamp	ICTC0335: Twin Pipe to Concentric Adaptor	IAWP03 Wall Plate	ICRT3539: Concentric Roof Termination	ISVLO31/2/3/6 (12", 24", 36", 72")



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RESIDENTIAL TANKLESS WATER HEATERS

HYDRONIC FURNACES

DIRECT VENT WALL FURNACES



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