COMMERCIAL WATER HEATING SOLUTIONS

Precisely engineered.

IRREFUTABLY TRUSTED.







COMMERCIAL SOLUTIONS -

WHERE THE DEMANDS ARE GREATEST,

Rinnai delivers.







Nearly 100 years ago, we at Rinnai established a tradition of never settling for less than the absolute best—a tradition that has grown even stronger today.

Leveraging decades of global commercial water heating experience, Rinnai Tankless Water Heaters deliver performance and reliability. Precision engineering allows Rinnai Tankless Water Heaters to produce an endless supply of hot water to suit even the most demanding applications—from restaurants to hotels to multifamily residences to schools and more—conserving energy that can save thousands of dollars in capital, operational and life cycle costs, while providing redundancy and saving space.

But it's not just performance that sets us apart. Our commitment to safety, quality and support has made us the #1 selling tankless brand in the U.S. and Canada.

From products to service and everything in-between, our dedication to delivering our absolute best never wavers. We're stronger than ever, so that your confidence in choosing Rinnai can be too.

Peak efficiency

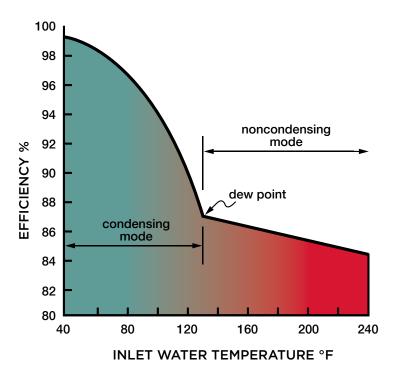
IS ABOUT WORKING LESS— NOT MORE.

Unlike traditional commercial tank-style water heaters or boilers, Rinnai Tankless Water Heaters operate only when needed so they're inherently more efficient right from the start. Plus, as a part of our Tankless Rack System, modulating units sync up as needed, rotating and working together to get the job done. So they're working less—using minimal energy—to save you more.

Condensing technology conserves even more energy, providing an Energy Factor of up to 0.96. Exact temperature control and other efficiency features all add up to top energy performance that reduces CO2 emissions and contributes to LEED® certification for both new construction and retrofit projects.

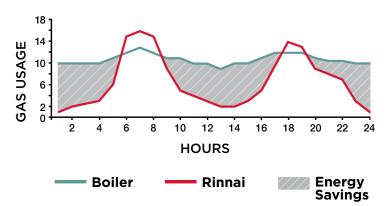
HOW CONDENSING TECHNOLOGY WORKS

Condensing appliances use the latent heat of exhaust to preheat incoming cold water. The colder the inlet water, the higher the efficiency and the more condensate is generated.



HOW MODULATION WORKS

The chart below demonstrates the efficiency that a fully modulating tankless system can provide. The chart generally shows the gas usage of a traditional boiler compared to that of a Rinnai Tankless Water Heater.* Peaks represent the tankless unit meeting user demands, and valleys represent saved energy in between.







As reliable

AS THE DAY IS LONG.

Precision-engineered Rinnai Tankless Water Heaters provide an endless supply of hot water, without interruption, day in and day out. Rinnai quality is manufactured rock-solid reliable—you can safely stake your reputation on it.

Use Rinnai Tankless Water Heaters with or without a storage tank, or bank multiple units together in the Rinnai Tankless Rack System for the added benefit of modulating technology and redundancy.

When one unit is down, another takes over so that your hot water supply never runs dry, and your operation doesn't miss a beat.

Solutions for any application.

PERFECTLY DESIGNED.

Reliable Rinnai Tankless Water Heaters deliver solutions for a full spectrum of commercial applications—from retrofit to new construction and light to heavy. Because the system configures to your needs, every kind of space, every usage demand is the perfect Rinnai fit—and that makes it easy to do business.

Thanks to our flexible venting options and Tankless Rack System, as well as solutions that are custom designed (with and without storage), you can use multiple units together to provide anywhere from 15,200 to 4.9 million BTU—enough to replace even large boilers.

APPLICATIONS:

- Restaurants
- · Hotels & Hospitality
- · Healthcare Facilities
- · Schools/Universities
- Office Buildings
- · Apartment Buildings

County Courthouse: TRS06i with Common Vent (1.2M BTU)







THE PROOF IS IN THE

performance.

Rinnai Tankless Water Heater Case Studies

COURTHOUSE DEMANDS

Situation:

- Multiple showers, sinks, washing machines and kitchen appliances used at once
- Peak usage hours with high demand; other periods of time with low use
- Existing system was 2M BTU condensing boiler and 725-gallon storage tank

Results:

- Installed an interior Rinnai Tankless Rack System rated 1.2M BTU with Rinnai's Common Vent system
- Fully modulating system with a 78:1 turn-down ratio capable of meeting fluctuating demand
- Operated only when needed, saving energy during low demand
- Experienced less than two hours of downtime in the transition

NATIONAL FULL-SERVICE RESTAURANT CHAIN

Situation:

- Conducted a one-year study to compare tankstyle water heaters to tankless water heaters in six restaurants across America
- One restaurant from each region installed a Rinnai Tankless Rack System with four tankless units, while another from each region installed a tank-style water heater

Results:

- On average, gas usage was approximately 21% less with tankless
- Each of the three restaurants who used tankless saw an average energy savings of \$5,820 for the year
- With 1,100 locations nationwide, using Rinnai Tankless Water Heaters could save this chain as much as \$6.4 million a year

MULTI-FAMILY RESIDENCE

Situation:

- · High-demand multi-family project with 63 units
- Existing system included two large boilers at 500K BTU each and a 270-gallon storage tank

Results:

- Installed an exterior Rinnai Tankless Rack System (six tankless water heaters) rated at 1.2M BTU
- Installation on rooftop took only a half day and was less expensive than what was originally specified

MIDDLE SCHOOL COMPARISON

Situation:

- Two schools with similar hot water system designs
- One outfitted with tank-style water heaters and one with Rinnai Tankless Water Heaters

Results:

- Rinnai Tankless Water Heaters saved 5.2 to 6.4 cents* per gallon of water used compared to tank-style units
- Potential annual savings of \$1,400
- Energy consumption reduced by more than 70% compared to tank-style units

^{*}Based on a price of \$1.60 per therm.

Flexibility, durability and efficiency.

CONDENSING

The Rinnai Ultra Series

THE ULTIMATE IN EFFICIENCY.

Delivering our most energy-efficient performance, the Ultra Series features a unique condensing design with two heat exchangers to maximize heating value, as well as a top-down burner to enhance reliability and durability and reduce maintenance. The Ultra Series also offers the most hot water capacity per BTU, with the ability to support multiple, simultaneous hot water demands.



- Condensing technology for maximum efficiency
- Up to .96 Energy factor (ENERGY STAR® qualified)
- Available in two sizes: 152,000 and 199,000 BTU



- Isolation valves included for easy maintenance
- Pre-mix ceramic burner with dual-heat exchanger

Model

Dimensions in Inches (w, h, d)

Weight (lbs / kg)

Available on TRS

Installation Type

Min./Max. BTU (natural gas)

Energy Factor

Temp. Range Commercial[†]

Min. Activation Rate

Flow Rate (70° / 50° Temp. Rise)

Hot Water Flow Rate Range

Controller (standard)§

Controllers (optional)§

Ultra Low NOx

Warranty (Commercial)

Mobile Home Certified

Valves Shipped in Box High Altitude

Approved Certifications

Venting Options

NON-CONDENSING

The Rinnai Luxury Series

AWARD-WINNING PERFORMANCE.

The Luxury Series offers the highest output of our non-condensing line of tankless units with sleek, modern design and a range of standard features and benefits to fully satisfy the demands of light commercial applications.

BENEFITS AT A GLANCE

- .82 Energy factor (ENERGY STAR® qualified)
- Available in two sizes: 180,000 and 199,000 BTU
- Isolation valves included for easy maintenance



Conder	nsing - U	Itra Serie	es	Non-Co	ondensir	ng - Luxu	ry Series				
RUC98i	RU98e	RUC80i	RU80e	RL94i	RLX94i	RL94e	RL75i	RL75e			
18.5 x 26 x 10	18.5 x 26 x 10	18.5 x 26 x 10	18.5 x 26 x 10	14 x 23 x 9	14 x 23 x 9	14 x 23 x 9	14 x 23 x 9	14 x 23 x 9			
61.7 / 28.0	61.7 / 28.0	61.7 / 28.0	61.7 / 28.0	46.3 / 21.0	46.3 / 21.0	43.7 / 19.8	45.6 / 20.7	44.3 / 20.1			
yes	yes	no	no	no	no	no	no	no			
Indoor	Outdoor	Indoor	Outdoor	Indoor	Indoor	Outdoor	Indoor	Outdoor			
15,200/199,000	15,200/199,000	15,200/152,000	15,200/152,000	10,300/199,000	10,300/192,000	10,300/199,000	10,300/180,000	10,300/180,000			
0.95	0.95	0.96	0.96	0.82	0.82	0.82	0.82	0.82			
98°–185° F	98°–185° F	98°–185° F	98°–185° F	98°–185° F	98°–185° F	98°–185° F	98°–160° F	98°–160° F			
0.4 gpm	0.4 gpm	0.4 gpm	0.4 gpm	0.4 gpm	0.4 gpm	0.4 gpm	0.4 gpm	0.4 gpm			
5.5 / 7.7	5.5 / 7.7	4.2 / 5.9	4.2 / 5.9	4.8 / 6.7	4.8 / 6.4	4.8 / 6.7	4.3 / 6.0	4.3 / 6.0			
0.26-9.8 gpm	0.26-9.8 gpm	0.26-8.0 gpm	0.26-8.0 gpm	0.26-9.8 gpm	0.26-9.8 gpm	0.26-9.8 gpm	0.26-7.5 gpm	0.26-7.5 gpm			
MC-91-2US	MC-91-2US	MC-91-2US	MC-91-2US	MC-91-2US	MC-91-2US	MC-91-2US	MC-91-2US	MC-91-2US			
MC-100-1, E	BC-100V-1, MCC-9	1-2 (for temperatu	res >140° F)	МС	C-100-1, BC-100V-	1, MCC-91-2 (for te	em peratures >140°	° F)			
yes	yes	yes	yes	no	yes	yes	yes	yes			
	l 5-year on heat ex year on labor (2-ye	• •			•	n heat exchanger, abor (2-year option	•				
yes	yes	yes	yes	yes	yes	yes	yes	yes			
yes	yes	yes	yes	yes	yes	yes	yes yes				
	Up to 10	0,200 ft.				Up to 10,200 ft.					
	AHRI, CSA, NSF,	ENERGY STAR®			AHRI, UPC	, CSA, NSF, ENEF	RGY STAR®				
Concentric or PVC / CPVC	N/A	Concentric or PVC / CPVC	N/A	Concentric	Concentric	N/A	Concentric	N/A			

[†]To achieve temperatures over 140° F, an MCC-91-2 commercial controller must be purchased separately. §MC-91-2 controllers are backwards compatible with previous water heaters.

Isolation Valve Kit is 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.

Luxury/Ultra Series Limited Warranty: Standard Limited Warranty (some restrictions apply) — 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*

Luxury Series heat exchanger warranty drops to 3 years if recirculation pump is used without an on-demand control system. Ultra Series maintains the full, applicable heat exchanger warranty if the recirculation system is controlled, but drops to 3 years if the system is uncontrolled.

*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.

Tankless Rack System.



Capacity in a whole new form.

Shipped fully assembled in a variety of configurations, the new Rinnai Tankless Rack System (TRS) arrives ready to install, and ready to impress. A complete and fully modular solution, TRS features a sturdy, pre-assembled aluminum rack with multiple Rinnai Tankless Water Heaters already mounted and connected to each other. Together, the units have enough capacity to suit a range of light to heavy commercial water heating requirements, replacing even the largest boilers and tank-style water heaters with one simple, energy-efficient solution.

Built to your advantage:

- Maneuverability: Fits, fully assembled, through standard 32-inch doorways and on elevators
- TRS racks come with two to six tankless units per rack, which can be combined for up to 25 tankless water heaters and provide up to 4.9 million BTU
- · Wall-mount or freestanding; outdoors or indoors
- · Corrosion-resistant, marine-grade aluminum is strong, but lightweight
- Value engineered from the start—from installation to energy savings
- Modulation technology with turn-down ratios of up to 327:1 to ensure hot water delivery and efficiency
- Use with or without storage tank and/or recirculation loop

TANKLESS RACK SYSTEM COnfigurations. UP TO 4.9 MILLION BTU AND 14,700 GALLONS PER HOUR:

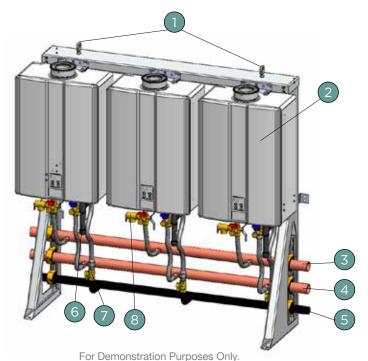
Type Wall Mount Wall Mount Freestand., Back-to-Back Freestand. Number of Tankless Units 2 units 3 units 2 units 2 units Height x Width x Length (in.) 57.69 x 18 x 44 57.69 x 18.01 x 44 55.56 x 41.5 x 28.5 55.56 x 4 Shipping Weight—Ibs. 296.5 402.5 340.5 340.5 340.5 Fully Assembled Weight—Ibs. 175.5 260.5 211.5 21 Gas Manifold (dia.) 1" 1-1/4" 1-1/4" 1-1 Water Manifold (dia.) 2" 2" 2" 2" Flow Rate @ 60 ΔT (GPM/GPH) 12.6 / 756 18.9 / 1,134 12.6 / 756 12.6 / 756 Flow Rate @ 70 ΔT (GPM/GPH) 10.8 / 648 16.2 / 972 10.8 / 648 10.8 / 648 Flow Rate @ 80 ΔT (GPM/GPH) 9.5 / 567 14.2 / 851 9.5 / 567 9.5 / 567 Flow Rate @ 100 ΔT (GPM/GPH) 8.4 / 504 12.6 / 756 8.4 / 504 8.4 / 504 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454			I	1	
Wall Mount Wall Mount Freestand, Back-to-Back Freestand, Number of Tankless Units 2 units 3 units 2 units 2 units 2 units 2 units 2 units 2 units 3 units 2 units 2 units 2 units 2 units 2 units 2 units 3 units 2 units 2 units 2 units 2 units 2 units 2 units 3 units 2 u					
Number of Tankless Units 2 units 3 units 2 units 2 units Height x Width x Length (in.) 57.69 x 18 x 44 57.69 x 18.01 x 44 55.56 x 41.5 x 28.5 55.56 x 4 Shipping Weight—Ibs. 296.5 402.5 340.5 344 Fully Assembled Weight—Ibs. 175.5 260.5 211.5 21 Gas Manifold (dia.) 1" 1-1/4" 1-1/4" 1-1 1-1 1-1 1-1/4" 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1	Model	TRW02	TRW03	TRS02	TRS02i
Height x Width x Length (in.) 57.69 x 18 x 44 57.69 x 18.01 x 44	Туре	Wall Mount	Wall Mount	Freestand., Back-to-Back	Freestand., I
Shipping Weight—lbs. 296.5 402.5 340.5 340.5 340.5	Number of Tankless Units	2 units	3 units	2 units	2 units
Fully Assembled Weight—Ibs. 175.5 260.5 211.5 21 Gas Manifold (dia.) 1" 1-1/4" 1-1/4" 1-1 Water Manifold (dia.) 2" 2" 2" 2 Flow Rate @ 60 ΔT (GPM/GPH) 12.6 / 756 18.9 / 1,134 12.6 / 756 12.6 / 756 12.6 / 756 12.6 / 756 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 11.3 / 681 7.6 / 6454 7.6	Height x Width x Length (in.)	57.69 x 18 x 44	57.69 x 18.01 x 44	55.56 x 41.5 x 28.5	55.56 x 41.5
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Water Manifold (dia.) 2" 2" 2" 2 Flow Rate @ 60 ΔT (GPM/GPH) 12.6 / 756 18.9 / 1,134 12.6 / 756 12.6 / 756 Flow Rate @ 70 ΔT (GPM/GPH) 10.8 / 648 16.2 / 972 10.8 / 648 10.8 / 648 Flow Rate @ 80 ΔT (GPM/GPH) 9.5 / 567 14.2 / 851 9.5 / 567 9.5 / 567 Flow Rate @ 90 ΔT (GPM/GPH) 8.4 / 504 12.6 / 756 8.4 / 504 8.4 / 504 Flow Rate @ 100 ΔT (GPM/GPH) 7.6 / 454 11.3 / 681 7.6 / 454 7.6 / 454 Max Input (BTU/h) 398,000 597,000 398,000 398,000 Max. Current (Amperes) 8 12 8 8 Electrical Requirements • Installer shall provide electrical outlet connections • Each water heater requires 120 VAC, 60 Hz power source in a properly grounded circuit Frame Material Water Trunk Line Material Water Branch Line Diameter Gas Trunk Line Material	Fully Assembled Weight-lbs.	175.5	260.5	211.5	211.5
Flow Rate @ 60 ΔT (GPM/GPH) 12.6 / 756 18.9 / 1,134 12.6 / 756 12.6 / 756 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 64	Gas Manifold (dia.)	1"	1-1/4"	1-1/4"	1-1/4"
Tools Flow Rate @ 70 AT (GPM/GPH) 10.8 / 648 16.2 / 972 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8 / 648 10.8	Water Manifold (dia.)	2"	2"	2"	2"
Flow Rate @ 80 ΔT (GPM/GPH) 9.5 / 567 14.2 / 851 9.5 / 567 9.5 / Flow Rate @ 90 ΔT (GPM/GPH) 8.4 / 504 12.6 / 756 8.4 / 504 8.4 / 504 8.4 / 504 Flow Rate @ 100 ΔT (GPM/GPH) 7.6 / 454 11.3 / 681 7.6 / 454 7.6 / Max Input (BTU/h) 398,000 597,000 398,000 398,000 398,000 597,000 398,000 597,000 398,000 597,000 398,000 597,000 6 Bas to the standard of the	Flow Rate @ 60 ΔT (GPM/GPH)	12.6 / 756	18.9 / 1,134	12.6 / 756	12.6 / 7
Flow Rate @ 90 AT (GPM/GPH) 8.4 / 504 12.6 / 756 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4 / 504 8.4	Flow Rate @ 70 ΔT (GPM/GPH)	10.8 / 648	16.2 / 972	10.8 / 648	10.8 / 6
Flow Rate @ 100 ΔT (GPM/GPH) 7.6 / 454 11.3 / 681 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 7.6 / 454 8 8 8 8 12 8 Installer shall provide electrical outlet connections • Each water heater requires 120 VAC, 60 Hz power source in a properly grounded circuit Frame Material Water Trunk Line Material Water Branch Line Diameter Gas Trunk Line Material	Flow Rate @ 80 ΔT (GPM/GPH)	9.5 / 567	14.2 / 851	9.5 / 567	9.5 / 56
Max Input (BTU/h) 398,000 597,000 398,000 398,000 398,000 398,000 398,000 8 Electrical Requirements • Installer shall provide electrical outlet connections • Each water heater requires 120 VAC, 60 Hz power source in a properly grounded circuit Frame Material Water Trunk Line Material Water Branch Line Diameter Gas Trunk Line Material	Flow Rate @ 90 ΔT (GPM/GPH)	8.4 / 504	12.6 / 756	8.4 / 504	8.4 / 50
Max. Current (Amperes) 8 12 8 Installer shall provide electrical outlet connections Each water heater requires 120 VAC, 60 Hz power source in a properly grounded circuit Water Trunk Line Material Water Branch Line Diameter Gas Trunk Line Material	Flow Rate @ 100 ΔT (GPM/GPH)	7.6 / 454	11.3 / 681	7.6 / 454	7.6 / 45
• Installer shall provide electrical outlet connections • Each water heater requires 120 VAC, 60 Hz power source in a properly grounded circuit Frame Material Water Trunk Line Material Water Branch Line Diameter Gas Trunk Line Material	Max Input (BTU/h)	398,000	597,000	398,000	398,00
• Each water heater requires 120 VAC, 60 Hz power source in a properly grounded circuit Frame Material Water Trunk Line Material Water Branch Line Diameter Gas Trunk Line Material	Max. Current (Amperes)	8	12	8	8
Water Trunk Line Material Water Branch Line Diameter Gas Trunk Line Material	Electrical Requirements	•			nded circuit
Water Branch Line Diameter Gas Trunk Line Material	Frame Material				
Gas Trunk Line Material	Water Trunk Line Material				
	Water Branch Line Diameter				
Gas Branch Line Material	Gas Trunk Line Material				
	Gas Branch Line Material				

WALL-MOUNTED RACK

NO	DESCRIPTION
1	Lifting Eyebolt
2	Rinnai Tankless Indoor or Outdoor Unit
3	Manifold, Hot Water
4	Manifold, Cold Water
5	Manifold, Gas
6	¾" Dirt Leg
7	34 FNPT Brass Ball Valve – Gas
8	Pressure Relief Valve (PRV)

†GPH represents flow rate delivered as GPH, not storage GPH. *Facing same direction.

Note: Explanation of Part Numbers - For specific model numbers, add i or e (for external / internal) water heaters and N or P (for Natural Gas or LP). Example: TRW02iN, 2-unit wall-mount rack with interior Natural Gas RU98 tankless units.



TRS03	TRS03iL	TRS04	TRS05	TRS06
Freestanding	Freestand., In-Line*	Freestanding	Freestanding	Freestanding
3 units	3 units	4 units	5 units	6 units
55.56 x 41.5 x 28.5	55.56 x 41.5 x 28.5	55.56 x 41.5 x 28.5	55.56 x 62 x 28.5	55.56 x 62 x 28.5
414.2	414.2	487.9	593.1	666.8
285.2	285.2	358.9	445.1	518.8
1-1/4"	1-1/2"	1-1/4"	1-1/2"	1-1/2"
2"	2-1/2"	2"	2-1/2"	2-1/2"
18.9 / 1,134	18.9 / 1,134	25.2 / 1,512	31.5 / 1,891	37.8 / 2,269
16.2 / 972	16.2 / 972	21.6 / 1,296	27.0 / 1,620	32.4 / 1,945
14.2 / 851	14.2 / 851	18.9 / 1,134	23.6 / 1,418	28.4 / 1,701
12.6 / 756	12.6 / 756	16.8 / 1,008	21.0 / 1,260	25.2 / 1,512
11.3 / 681	11.3 / 681	15.1 / 907	18.9 / 1,134	22.7 / 1,361
507.000	597,000	796,000	995,000	1,194,000
597,000	397,000	730,000	000,000	1,104,000
	Freestanding 3 units 55.56 x 41.5 x 28.5 414.2 285.2 1-1/4" 2" 18.9 / 1,134 16.2 / 972 14.2 / 851 12.6 / 756 11.3 / 681	Freestanding Freestand., In-Line* 3 units 3 units 55.56 x 41.5 x 28.5 55.56 x 41.5 x 28.5 414.2 414.2 285.2 285.2 1-1/4" 1-1/2" 2" 2-1/2" 18.9 / 1,134 18.9 / 1,134 16.2 / 972 16.2 / 972 14.2 / 851 12.6 / 756 11.3 / 681 11.3 / 681	Freestanding Freestand., In-Line* Freestanding 3 units 3 units 4 units 55.56 x 41.5 x 28.5 55.56 x 41.5 x 28.5 55.56 x 41.5 x 28.5 414.2 487.9 285.2 285.2 358.9 1-1/4" 1-1/2" 1-1/4" 2" 2-1/2" 2" 18.9 / 1,134 18.9 / 1,134 25.2 / 1,512 16.2 / 972 16.2 / 972 21.6 / 1,296 14.2 / 851 14.2 / 851 18.9 / 1,134 12.6 / 756 12.6 / 756 16.8 / 1,008 11.3 / 681 11.3 / 681 15.1 / 907	Freestanding Freestand., In-Line* Freestanding Freestanding 3 units 3 units 4 units 5 units 55.56 x 41.5 x 28.5 55.56 x 41.5 x 28.5 55.56 x 62 x 28.5 414.2 487.9 593.1 285.2 285.2 358.9 445.1 1-1/4" 1-1/2" 1-1/4" 1-1/2" 2" 2-1/2" 2" 2-1/2" 18.9 / 1,134 18.9 / 1,134 25.2 / 1,512 31.5 / 1,891 16.2 / 972 16.2 / 972 21.6 / 1,296 27.0 / 1,620 14.2 / 851 14.2 / 851 18.9 / 1,134 23.6 / 1,418 12.6 / 756 12.6 / 756 16.8 / 1,008 21.0 / 1,260 11.3 / 681 11.3 / 681 15.1 / 907 18.9 / 1,134

RU98i: 64 W normal operation; 2 W standby; 146 W anti-frost protection
RU98e: 63 W normal operation; 2 W standby; 168 W anti-frost protection

Aluminum .090 5052-H32

Rigid Copper

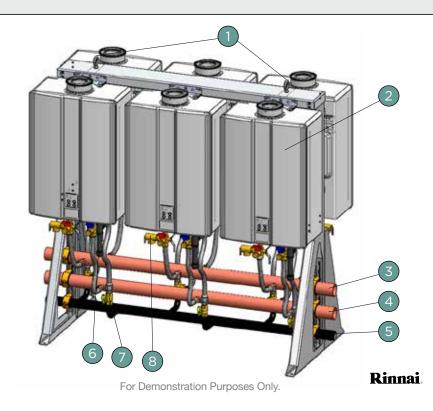
3/4" CSST

Schedule 40 Steel

PVC Over CSST

FREESTANDING RACK

NO	DESCRIPTION
1	Lifting Eyebolt
2	Rinnai Tankless Indoor or Outdoor Unit
3	Manifold, Hot Water
4	Manifold, Cold Water
5	Manifold, Gas
6	¾" Dirt Leg
7	34 FNPT Brass Ball Valve - Gas
8	Pressure Relief Valve (PRV)



Common venting.

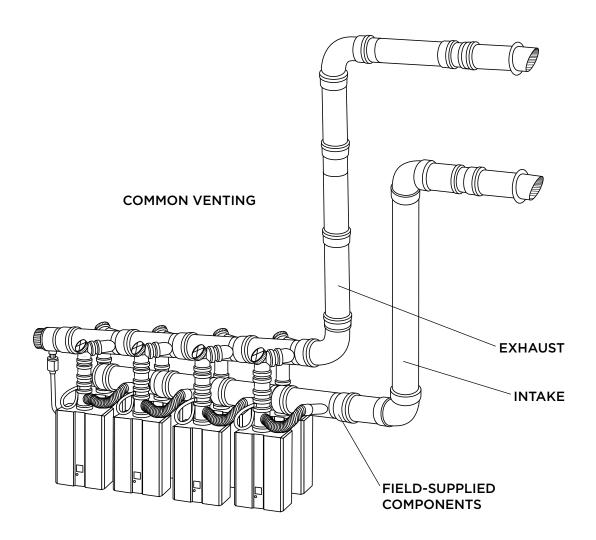
THE EPITOME OF STREAMLINED INSTALLATION.

With Rinnai Common Venting (CVent), up to eight TWH units share the same CVent system—which means significantly fewer wall or roof cuts, less labor, and longer vent lengths than ever possible with single-unit TWH venting. The system is also fully CSA-certified and uses polypropylene (PPtl)—a more reliable venting material for the job, able to withstand exhaust temperatures up to 230° F.

Clean, easy, cost-saving install:

- Vent lengths up to 100' with seven TWH units; 41' with eight TWH units
- · Easy lock-and-fit joints—no cement or glue required
- · Non-return valve prevents backflow of exhaust gases into idle tankless water heaters
- In-line or back-to-back installations; horizontal or vertical termination
- · More options than ever before for indoor or outdoor installs
- · Reduces wall penetrations





VENTING OPTIONS FOR THE TANKLESS RACK SYSTEM												
Venting Options	Exhaust Vent Material	Intake Vent Material	Diameter (in)	Maximum Units	Maximum Vent Length (ft)							
Common Venting System	PPtl (CVent)†	PPtl or PVC (field-supplied)	8	8	100 (with 7 TWH units)							
Concentric	PPs	PVC	5	1	41							
Dual Pipe	PPs*	PPs* or PVC	3	1	39							

EXHAUST VENTING COMPONENTS	PART NUMBER	APPLICATION (8" DIAMETER)
Starter Kit	790005	Needed for each in-line or back-to-back CVent system
In-Line Kit, 1 unit	790007	Needed for each water heater in the bank; in-line (or back-to-back configuration if there is an odd number of water heaters); includes both exhaust and combustion air components
Back-to-Back Kit, 2 units	790008	Needed for each set of two units in a back-to-back configuration; includes both exhaust and combustion air components
Roof Termination Kit	790001	Includes termination and top vent section
Wall Termination Kit	790004	Wall termination with stainless steel grate and wall plate (for both exhaust and combustion)
CVent Extension (8")	790020 / 790021	18" length / 39" length
CVent Elbow (8")	790022 / 790023	45° bend (includes two pieces) / 87° bend

[†]PPtl material is not approved for use in Canada.

*This venting is provided by Centrotherm® through their own distribution network.

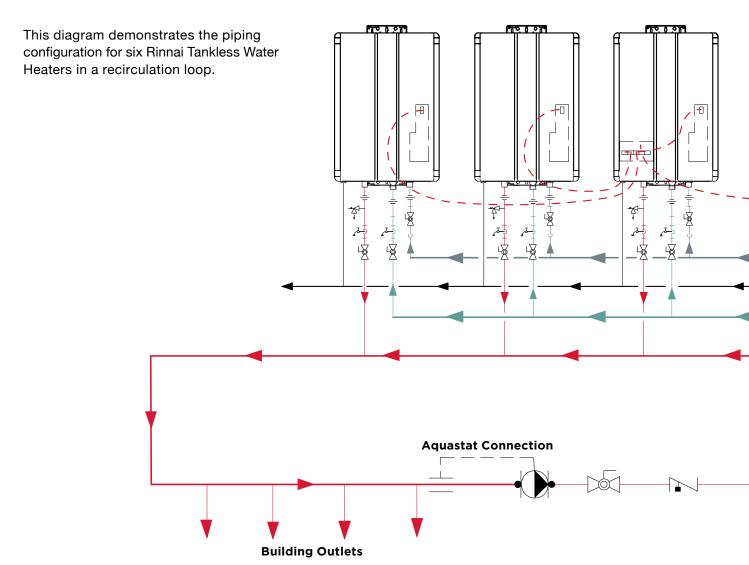
Unassembled venting components are packaged with pre-assembled rack for field assembly by installer.



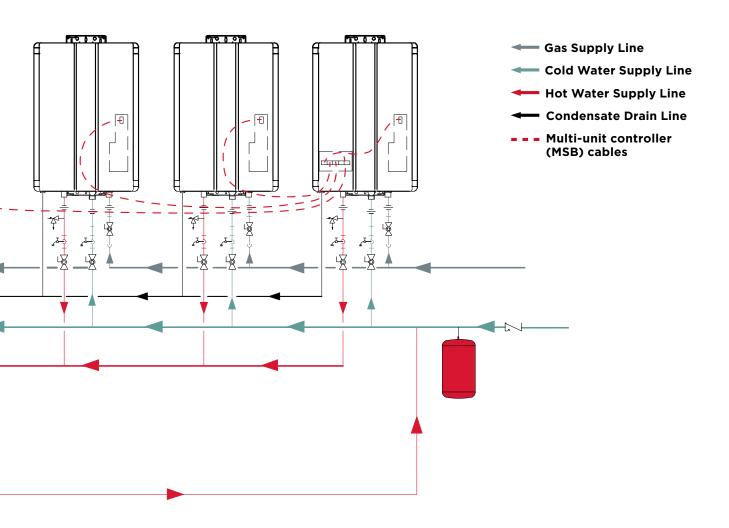
Installs and services like we designed it to. Easy.

When you devote decades to developing the leading water heating solution, you don't stop at product. From simple installation to streamlined servicing, you can count on Rinnai—and our national network of mechanical contractors and factory-direct service technicians—to keep your business profitable.

- Our flagship commercial solution is our Tankless Rack System, or TRS. It ships pre-assembled to the jobsite for fast and easy installation.
- Whether the TRS or multiple tankless units are installed on-site, the system features built-in redundancy with units operating independently and in concert. This means an individual tankless water heater can be taken off-line while the rest of the system remains operational.



- Built-in digital temperature displays provide error codes and other diagnostics for easy maintenance.
- Rinnai tankless units can be paired with "fieldsourced" recirculation pumps properly sized to reduce hot water delivery time and ensure continuous hot water in commercial applications.
- Modular, field-replaceable parts make upkeep easy, with 24/7 tech support always there to back you up.
- Rinnai's multi-unit controller system, the MSB, can be used to control up to 25 units, ensuring lead-lag operation and sequencing optimization to ensure long life and reliability.



Accessories

Performance-enhancing accessories can add even more flexibility to precisely engineered Rinnai Tankless Water Heaters.



MCC-91-2W

DIGITAL TEMPERATURE CONTROL

Rinnai units are digitally controlled for a precise temperature set-point. The MCC-91 controller is needed for temperatures above 140° F.

EZCONNECT® CABLE

Electronically connects two units so they function as one hot water source.

MAINTENANCE INDICATION SWITCH (MIS)

The MIS is used to connect Rinnai Tankless Water Heaters to a central building management system (BMS), which then notifies the building or facility manager if a unit is experiencing an error code. This helps to minimize downtime associated with non-operating units and ensures any problem with individual or multiple units is guickly resolved.

MSB CONTROLLER

Connect up to 25 TWH units for your most demanding applications. Controller rotates unit activation to ensure that each gets equal run-time, greatly extending the overall life of the system.

TYPICAL N	TYPICAL MSB CONFIGURATION																							
No. of Water Heaters	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Controller	Nun	nber	of Co	ompo	nent	s Re	quire	d																
MSB-M*	1	1	1	1	2	2	2	2	2	3	3	3	3	3	4	4	4	4	4	5	5	5	5	5
MSB-C1**	N/A	1	2	3	2	3	4	5	6	6	6	7	8	9	8	9	10	11	12	11	12	13	14	15
MSB-C2 [†]	N/A	N/A	N/A	N/A	1	1	1	1	1	2	2	2	2	2	3	3	3	3	3	4	4	4	4	4

^{*}Includes: Control Board; Cable A (23 in / 585 mm), Cable B (9.8 ft / 3 m), brackets, ties, and screws.

^{**}Includes: Cable B (9.8 ft / 3 m), brackets, ties, and screws.

 $^{^{\}dagger}$ Includes: MSB Cable A (13.1 ft / 4 m), terminal connectors.

TYPICAL MSB CONFIGURATION

In this diagram, 25 tankless water heaters are electronically connected. Each bank of five is controlled by an MSB-M control board. These boards are connected to each other with MSB-C2 cables. One MSB-M is the controlling or master MSB-M for the entire system.

- MSB-M control board
- A Connector cable A (part of MSB-M kit)
- MSB-C1 cable for connecting water heaters within a banked system (up to 5 TWH)
- MSB-C2 cable for connecting MSB-M control boards (up to 5 TWH)

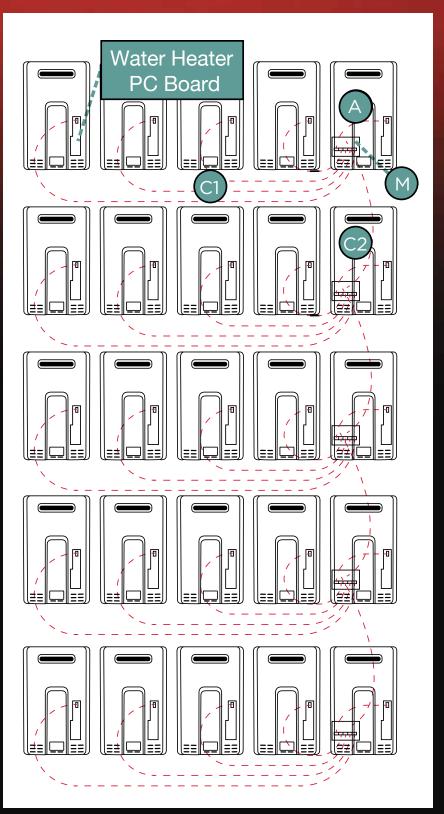


Illustration applies to use of MSB Controller with and without the Rinnai Tankless Rack System.

And helpful answers.

Q: What kind of applications are best suited for Rinnai Tankless Water Heating Commercial Solutions?

A: Rinnai Tankless Water Heaters are perfectly suited for virtually any commercial application. Customers of all sizes and configurations in multi-family, hospitality, healthcare, education, food service, retail and more trust Rinnai to deliver an endless, efficient supply of hot water.

Q: What types of products can the Rinnai Tankless Rack System replace?

A: The flexibility and capability of the TRS allows it to replace just about any existing water heating product, from domestic boilers to traditional tank-style water heaters, so long as the necessary gas, venting and installation requirements are present. In fact, the modular design can handle up to 4.9M BTU. And even in cases where demands are smaller, Rinnai Tankless Water Heaters can provide significantly more energy efficiency and reliability than tank-style water heaters.

Q: Can I use a storage tank with Rinnai Tankless Water Heating Commercial Solutions? Do I need one?

A: Rinnai Tankless Water Heaters are designed to achieve peak efficiency and performance without the use of a storage tank. Because they only operate on-demand, they use far less energy than tank-style water heaters. However, they can be used in conjunction with a storage tank to suit the needs of a specific application. Please consult with Rinnai's Application Engineering group to determine the best solution for your project.

Q: Can I use a recirculation line with Rinnai Tankless Water Heaters?

A: When continuous, on-demand hot water is needed, our tankless units work very well with a recirculation pump. Plus, the modulating technology and minimum fire rating of the Rinnai Tankless Rack System enables it to maintain consistent temperature in a return line with limited waste, only using the energy necessary to keep the line heated when required.

Please note that all tankless water heater installations are different. Contact a trained Rinnai installer to learn more about sizing and custom solutions.



Trustworthy products

START WITH RELIABLE SERVICE.







At Rinnai, our commercial water heating solutions are designed and tested to deliver the utmost in performance and dependability. Before our products ever reach customers, they're rigorously tested at our on-site, CSA-certified laboratories. But just as important as engineering a sound product is offering a strong support system.

That's why we're here for professionals with 24/7/365 technical support and on-staff application engineers to assist with sizing and product selection. Not to mention a large national network of wholesale distributors, so that products and replacement parts are always easily accessible and field-supplied.

For a free sizing consultation and to receive product specifications and other technical documents, call **866-383-0707**, or visit **www.rinnai.us/commercial**. Rinnai Tankless Water Heaters are also available as Autodesk® Revit® Building Information Models, accessible at **www.smartbim.com**

WARRANTY COVERAGE

For even more peace of mind, the Rinnai Tankless Water Heater commercial warranty includes:

- 5-year heat exchanger
- 5-year parts
- 1-year labor, extended to 2 years when registered within 30 days of purchase*

For complete warranty details, visit www.rinnai.us/warranty or call 1-800-621-9419.

*Optional extended limited labor warranty includes coverage for up to five years from the date of purchase on specific models. See complete warranty for details.





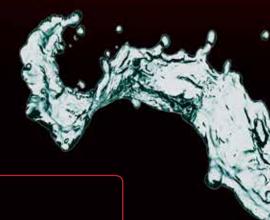
A tradition of

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, 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.





Learn more about our Commercial Water Heating Solutions at www.rinnai.us/commercial



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