



Product Brochure  
Condensing Tankless Series

# CONDENSING

## TANKLESS GAS WATER HEATERS

### The Next Level of Tankless

#### *Ultra*<sup>™</sup> High Efficiency Condensing Tankless Gas Water Heaters

- All Models Exceed ENERGY STAR<sup>®</sup> Requirements
- Indoor Direct Vent with PVC Piping and Outdoor Models
- Ruud Exclusive Water Savings setting
- Built-in Condensate Neutralizer



[Ruud.com](http://Ruud.com)

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# Ruud **ULTRA™** Condensing Tankless Solutions – Energy Efficient Continuous Hot Water

## Ruud® Ultra™ Series Condensing Tankless Water Heaters are packed with business-building features.



### Efficiency

- .93 UEF with stainless steel condensing heat exchanger

### Easy Installation and Service

- **Vent with 2", 3" or 4" PVC**
- Built-in condensate neutralizer
- 1/2" Gas line compatibility up to 24 ft.<sup>1</sup>
- **Exclusive! Maintenance Notice Setting** – Alerts homeowner, after 500 hours of use, to call for service check (optional)
- Self-diagnostic system
- High-altitude capability – up to 8,400 ft. elevation above sea level<sup>2</sup>
- Digital remote control and 10 ft. of thermostat wire included
- Supplied with a 120-volt power cord (indoor models only)

### Performance

- **Industry Best! Low Flow Activation** – Minimum flow rate of .26 GPM and minimum activation flow rate of .40 GPM ensures the user will receive hot water even in low demand situations
- **Recirculation Pump Kit-Ready** – Quickly pairs with our Recirculation Pump kit to provide instantaneous hot water at the tap<sup>3</sup>
- **Exclusive! Hot Start Programming** – Minimizes cold water bursts by staying in ready-fire state for back-to-back hot water needs

### Technology

- **EcoNet® Enabled** – all Tankless products from 2010 to present can connect to EcoNet mobile app via Tankless EcoNet Accessory Kit (REWRA630TWH)
- For higher demand, link multiple units to operate as one system:
  - 2 Units: EZ-Link™
  - Up to 6 units: MIC-6 Control Board
  - Up to 20 units: MIC-185 plus MICS-180 manifold control assembly



### Environmentally Friendly

- **Low Emissions** – Ultra low NOx burner meets SCAQMD rule 1146.2 requirements
- **Exclusive! Water Savings Setting** – upon activation, this setting can save homeowners up to 1,100 gallons of water per year<sup>4</sup> by decreasing the flow of water through the pipes until the temperature reaches the heater's set temperature

### Safety

- **Exclusive! Guardian OFW™ overheat film wrap** – prevents dangerous temperatures and provides industry best side-to-side clearance of 1/2 inch
- **Industry Best!** Freeze protection to -30°F

### Warranty

- 12-Year heat exchanger – residential, 5-year heat exchanger – commercial, 5-year parts and 1-year labor
- See Warranty Certificate for complete information



**.93**  
**UNIFORM ENERGY FACTOR**

Maximum water temperature is 140°F. For higher temperature applications, upgrade kits are available

<sup>1</sup> Based on Ruud testing of 1/2" gas line with gas supply of 7" w.c. up to 24'; Installation conditions vary; Consult the Ruud® Use and Care Manual, the Ruud® Gas Piping Facts brochure (TKR-GPF-12), the National Fuel Gas Code (NFPA 54, ANSI Z223.1), and any other local gas codes when installing a Ruud Tankless Water Heater.

<sup>2</sup> Contact customer service for exact altitude rating for each model.

<sup>3</sup> Pump kit designed for single unit applications only.

<sup>4</sup> Savings based on DOE test procedures.





**Ruud Tankless Water Heater with EcoNet® WiFi Included**

**Smart Home Features**

- Water leak detection alert and system shut off (indoor models only) – may qualify for insurance discounts
- Mobile alerts for notifications/maintenance reminders
- Mobile gas and water usage reports
- Integration with NEST & WINK smart home systems

**Product Includes**

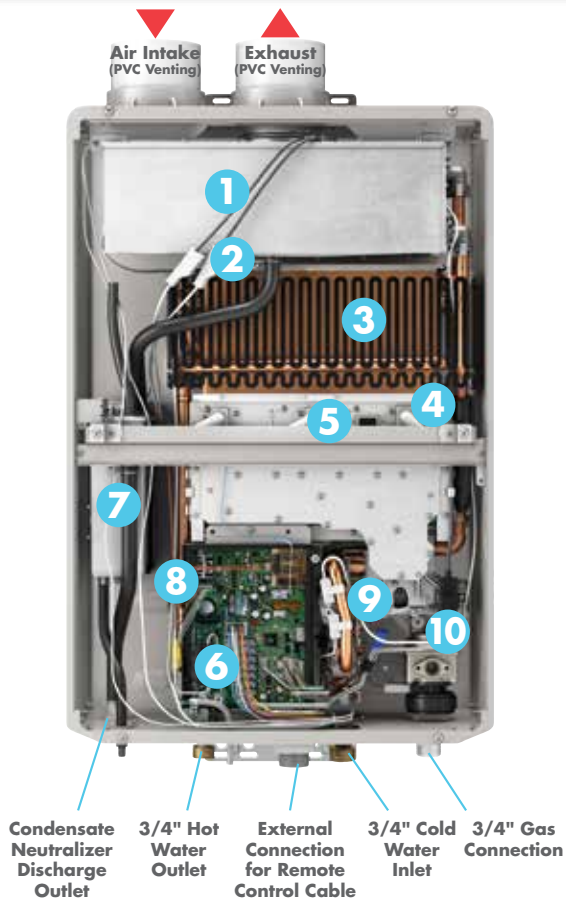
- Factory-installed translator
- Leak detection cable (for indoor models)
- WiFi Module, connection cable and power cord

App available free in App Store and Google Play for Android




**RUTGH-DVELN-1**  
Indoor Direct Vent with EcoNet®  
11,000-199,900 BTU/h Only  
(Outdoor model also available)

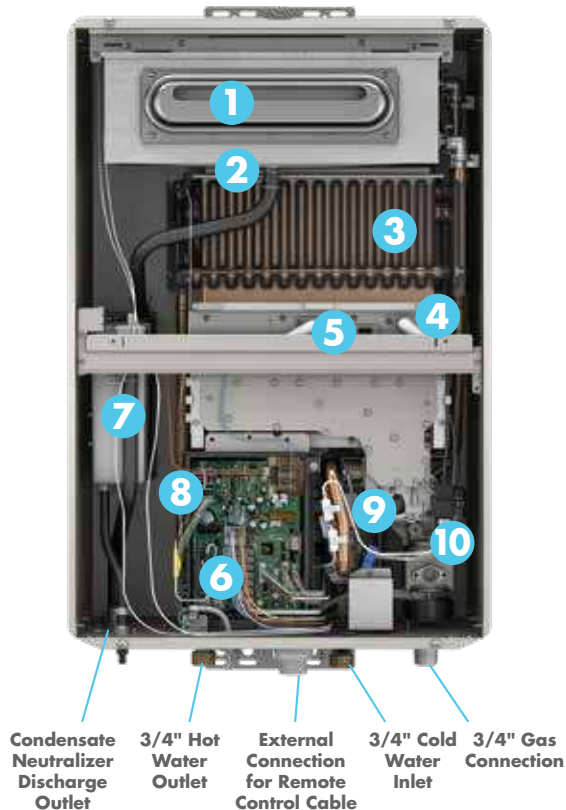
# Superior Construction & Reliability



## Indoor Direct Vent

- 1 Stainless Steel Secondary Heat Exchanger
- 2 All-Copper Primary Heat Exchanger
- 3 Over Heat Film Wrap
- 4 Electronic Spark Ignition
- 5 157,000 - 199,900 Btu/h Modulating Burner
- 6 Electronic Control Board
- 7 Condensate Neutralizer
- 8 Variable Speed Fan
- 9 Water Flow Control System
- 10 Modulating Gas Valve

EcoNet® Enabled – All models can connect to EcoNet mobile app via Tankles EcoNet Accessory Kit (REWRA630TWH)



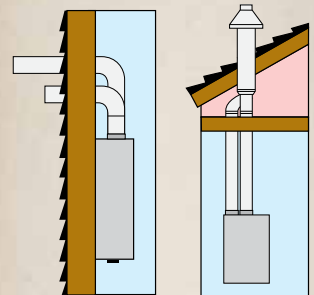
## Outdoor

- 1 Stainless Steel Secondary Heat Exchanger
- 2 All-Copper Primary Heat Exchanger
- 3 Over Heat Film Wrap
- 4 Electronic Spark Ignition
- 5 157,000 - 199,900 Btu/h Modulating Burner
- 6 Electronic Control Board
- 7 Condensate Neutralizer
- 8 Variable Speed Fan
- 9 Water Flow Control System
- 10 Modulating Gas Valve

## Venting Options and Installations



### PVC Vent System

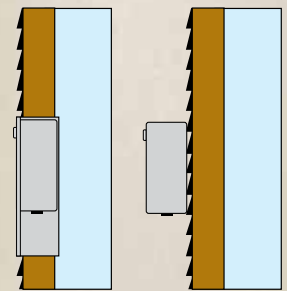


Indoor horizontal vent termination

Indoor vertical vent termination

All indoor tankless units must be vented vertically or horizontally to the outdoors using manufacturer approved venting material. See the installation instructions for each specific model.

### Outdoor



Outdoor\* recess box installation

Outdoor\* installation

\*Outdoor units do not require venting materials.

Venting details, including clearances and diagrams can be found in the "Use & Care Manual" of Ruud indoor tankless water heaters.

**Ruud.com**  
**800.621.5622**





## Ruud ULTRA™ Specifications

DESCRIPTION				FEATURES					ROUGHING IN DIMENSIONS (SHOWN IN INCHES)						ENERGY INFO.	
MODEL NUMBER	GAS INPUT BTU/H	TYPE	NUMBER OF BATHROOMS*	TEMP. RANGE	MIN. FLOW/ACTIVATION GPM	GPM @ 67° RISE MAX.	GPM @ 45° RISE MAX.	MAX. GPM	CONNECTION		HEIGHT	WIDTH	DEPTH	VENT DIAM.	SHIP WEIGHT (LBS.)	UNIFORM ENERGY FACTOR (UEF)
									WATER	GAS						
<b>Ruud Ultra™ RUTGH-95</b>																
RUTGH-95DVLN-1	11,000-199,900	Indoor Direct Vent	4	85° to 140° F	0.26/0.40	5.7	8.5	9.5	3/4	3/4	27-1/2	18-1/2	9-3/4	2", 3" or 4" PVC 2-Pipe	82	0.93
RUTGH-95DVELN-1 (EcoNet® Included)	11,000-199,900	Indoor Direct Vent	4	85° to 140° F	0.26/0.40	5.7	8.5	9.5	3/4	3/4	27-1/2	18-1/2	9-3/4	2", 3" or 4" PVC 2-Pipe	82	0.93
RUTGH-95XLN-1	11,000-199,900	Outdoor	4	85° to 140° F	0.26/0.40	5.6	8.5	9.5	3/4	3/4	27-1/2	18-1/2	9-3/4	N/A	82	0.93
RUTGH-95XELN-1 (EcoNet® Included)	11,000-199,900	Outdoor	4	85° to 140° F	0.26/0.40	5.6	8.5	9.5	3/4	3/4	27-1/2	18-1/2	9-3/4	N/A	82	0.93
<b>Ruud Ultra™ RUTGH-90</b>																
RUTGH-90DVLN-1	11,000-180,000	Indoor Direct Vent	3 - 4	85° to 140° F	0.26/0.40	5.2	7.7	9.0	3/4	3/4	27-1/2	18-1/2	9-3/4	2", 3" or 4" PVC 2-Pipe	82	0.93
RUTGH-90XLN-1	11,000-180,000	Outdoor	3 - 4	85° to 140° F	0.26/0.40	5.2	7.7	9.0	3/4	3/4	27-1/2	18-1/2	9-3/4	N/A	82	0.93
<b>Ruud Ultra™ RUTGH-84</b>																
RUTGH-84DVLN-1	11,000-157,000	Indoor Direct Vent	3	85° to 140° F	0.26/0.40	4.6	6.7	8.4	3/4	3/4	27-1/2	18-1/2	9-3/4	2", 3" or 4" PVC 2-Pipe	82	0.93
RUTGH-84XLN-1	11,000-157,000	Outdoor	3	85° to 140° F	0.26/0.40	4.5	6.7	8.4	3/4	3/4	27-1/2	18-1/2	9-3/4	N/A	82	0.93

\*Based on simultaneous showers using 2.5 GPM flow rate pre-mixed with cold water line. Flow rates vary depending on temperature of incoming cold water and water heater set temperature. Refer to flow rate curves for accurate sizing.

Uniform Energy Factor and Energy Factor based on Department of Energy (D.O.E.) requirements.

All models are available in Natural Gas and Propane (LP). For Propane replace the N with P when ordering.

SCAQMD 1146.2 compliant.

Factory set maximum temperature is 120° F. See Use and Care Manual for setting.

Consult factory for information on sizing the application.

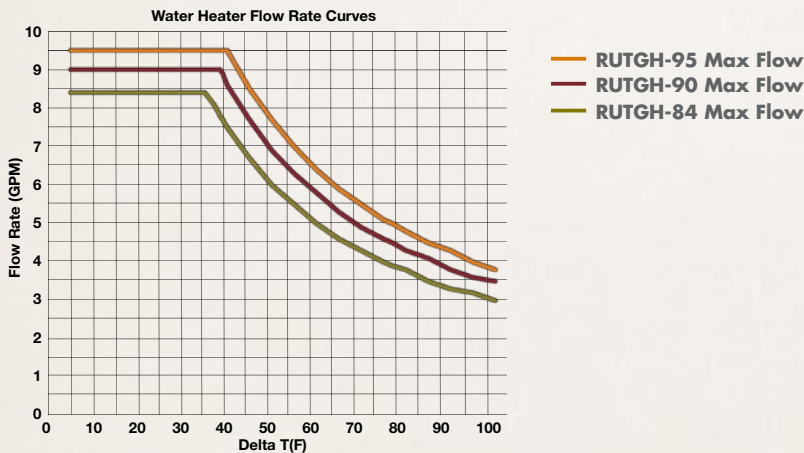
Vent Termination Kits are required for Direct Vent models. Contact your distributor for details.

Proper gas pressure must be ensured to supply tankless gas water heaters – up to 199,900 Btu/h for RUTGH-95 models, up to 180,000 Btu/h for RUTGH-90 models, up to 157,000 Btu/h for RUTGH-84 models. (Consult your gas supplier)



Model Number	Temperature Rise (° F)									
	35°	45°	50°	60°	67°	70°	80°	90°	100°	
RUTGH-95 Water Flow (GPM)	9.5	8.5	7.7	6.4	5.7	5.5	4.8	4.3	3.8	
RUTGH-90 Water Flow (GPM)	9.0	7.7	6.9	5.8	5.2	4.9	4.3	3.8	3.5	
RUTGH-84 Water Flow (GPM)	8.4	6.7	6.0	5.0	4.6	4.3	3.8	3.3	3.0	

Above estimates are for sizing purposes only.



### Maximum Vent Length (intake/outlet):

NUMBER OF 90° ELBOWS	MAXIMUM LENGTH		
	OF 2" STRAIGHT PIPE	OF 3" STRAIGHT PIPE	OF 4" STRAIGHT PIPE
0 or 1	5.0 ft. (1.5 m)	38.0 ft. (11.6 m)	94.0 ft. (28.6 m)
2	3.5 ft. (1.0 m)	36.5 ft. (11.1 m)	88.0 ft. (26.8 m)
3	2.0 ft. (0.6 m)	35.0 ft. (10.6 m)	82.0 ft. (25.0 m)
4	Not Available	33.5 ft. (10.2 m)	76.0 ft. (23.2 m)
5	Not Available	32.0 ft. (9.8 m)	70.0 ft. (21.3 m)
6	Not Available	30.5 ft. (9.3 m)	64.0 ft. (19.5 m)



For more information on Tankless parts and accessories, see the Parts and Accessories Catalog or call 866-720-2076.

In keeping with its policy of continuous progress and product improvement, Ruud reserves the right to make changes without notice.

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