



CONDENSING TANKLESS GAS WATER HEATERS

The Next Level of Tankless

Ultra™ High Efficiency Condensing Tankless Gas Water Heaters

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



Ruud.com



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





• .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.1
- 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 level²
- 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 tap³
- 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 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



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

FACTOR

- ¹ 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
- ² Contact customer service for exact altitude rating for each model.
- Pump kit designed for single unit applications only.
 Savings based on DOE test procedures.



RUTGH-DVELN-1

Indoor Direct Vent with EcoNet® 11,000-199,900 (Outdoor model also available)



Ruud Tankless Water Heater with EcoNet® WiFi Included

Smart Home Features

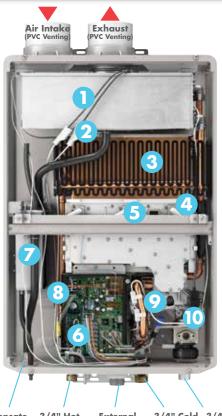
Product Includes

- WiFi Module, connection cable and power cord





Superior Construction & Reliability

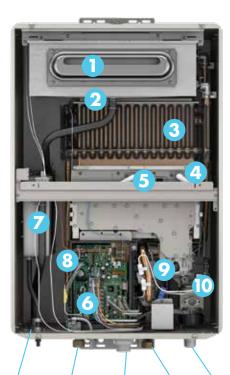


Condensate Neutralizer **Discharge** Outlet

3/4" Hot Water Outlet

External Connection for Remote **Control Cable**

3/4" Cold 3/4" Gas Water Connection



Condensate Neutralizer Discharge Outlet

3/4" Hot Water Outlet

External Connection for Remote **Control Cable** 3/4" Cold 3/4" Gas Water Connection Inlet

Indoor Direct Vent

- Stainless Steel Secondary Heat Exchanger
- All-Copper Primary Heat Exchanger
- Over Heat Film Wrap
- Electronic Spark Ignition
- 157,000 199,900 Btu/h Modulating Burner
- Electronic Control Board
- Condensate Neutralizer
- Variable Speed Fan
- Water Flow Control System
- Modulating Gas Valve



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

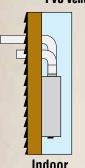
Outdoor

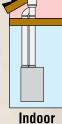
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Venting Options and Installations



PVC Vent System





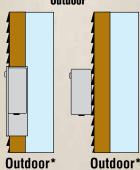
Indoor vent termination

each specific model.

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

vent termination

Outdoor



*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

Ruud.com 800.621.5622



Ruud *ULTRA*™ Specifications

DESCRIPTION				FEATURES					ROUGHING IN DIMENSIONS (SHOWN IN INCHES)					ENERGY INFO.		
MODEL	GAS INPUT		NUMBER OF	TEMP.	MIN. FLOW/ ACTIVATION	GPM @ 67° RISE	GPM @45° RISE	MAX.	CONNE	CTION				VENT	SHIP WEIGHT	UNIFORM ENERGY FACTOR
NUMBER	BTU/H	TYPE	BATHROOMS*	RANGE	GPM	MAX.	MAX.	GPM	WATER	GAS	HEIGHT	WIDTH	DEPTH	DIAM.	(LBS.)	(UEF)
Ruud Ultra	" RUTG	H-95														
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
Ruud Ultra	" RUTG	H-90														
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
Ruud <i>Ultra</i> *	" RUTG	H-84														
RUTGH-84DVLN-1	11,000- 1 <i>57</i> ,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.

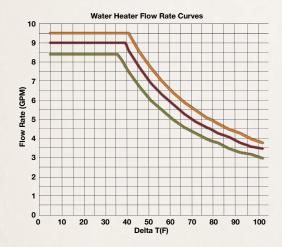
Consult factory for information on sizing the application.

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)

	Temperature Rise (° F)								
Model Number	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	MAXIMUM LENGTH OF 3" STRAIGHT PIPE	MAXIMUM LENGTH 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.

Ruud Water Heating • 1115 Northmeadow Parkway, Suite 100 Roswell, Georgia 30076 • 1.800.621.5622 PRINTED IN U.S.A. 12/17 WP FORM NO. TKR-901C Rev. 12