RUTGH-S/SR Tankless Water Heaters



Ruud[®] S/SR Series Super High Efficiency Condensing Tankless Gas Water Heater

Easy Installation

- PVC Vent runs up to 70' (2"), 150' (3")
- Easy set up with full text digital display and no dip-switches
- Field gas convertible from natural gas to LP conversion kit included

Ready for Retrofits

- Allows flex venting through existing B-vent up to 50'
- 1/2" Gas line compatibility (subject to local code)
- Approved for installations in Manufactured Home (Mobile Home) environments

Key Features

- Stainless steel Primary and Secondary heat exchangers provide increased efficiency and durability
- Hot-start programming[™] ensures the unit is in a ready state between back-to-back usage, avoiding any cold water bursts – Ruud[®] Exclusive!
- Built-in Recirculation pump for instant hot water at the tap (SR models)
- Built-in EcoNet® wifi capability for direct control from your device (optional for S models)



RUTGH-S/SR Models

(Non-recirculation S Models

COMING SOON!)

Indoor Models
(Outdoor Conversion Kit
Available: **RTGH-SX**)
11,000-199,900 BTU/h
Natural Gas/LP Convertible



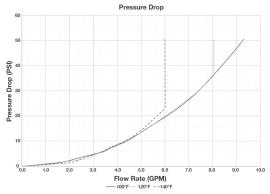






Clearances					
Top / Bottom	12"				
Front	1/2"6				
Sides	1/2"				
Back / From Vent Pipe	0"				

Recirculation Length (SR Models)					
Pipe Diameter	Max. Recirculation Loop				
3/4"	400 ft.				
1/2"	100 ft.				



¹Based 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. ²For indoor application, this is the temperature of outdoor intake air. ³External check valve required for installation. ⁴Manifolds with standard RJ25 communication cables. ⁹In atti freeze is on and combustion is on, total W will be 217W (85+132). ⁶Recommended 24* clearance for service.

Specifications

COMING SOON!

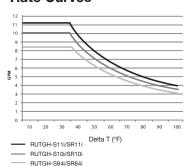
Ruud Model Number		RUTGH-S84i RUTGH-SR84i				
Coo Innut Boto	MAX	157,000 BTU/h	180,000 BTU/h	199,900 BTU/h		
Gas Input Rate	MIN	11,000 BTU/h	11,000 BTU/h	11,000 BTU/h		
Uniform Energy Factor (UEF)			0.96			
O-llana Dan	MAX (35°F)	8.4	10.1	11.2		
Gallons Per Minute (GPM)	45°F Rise	6.9	7.9	8.8		
Williate (GFWI)	67°F Rise	4.6	5.3	5.9		
Number of Bathrooms ¹		###	⇔਼ ਦੇ ਹਾ-	####		
Temp. Range		85°F - 140°F				
Temp. Settii	ng from Factory	120°F				
Install	ation Type	Indoor (Outdoor Conversion Kit sold separately: RTGH-SX)				
Fu	el Type	Compatible with Natural Gas and LP (ships NG with LP conversion kit included)				
Heat Exch	anger Material	Primary: Stainless Steel - Secondary: Stainless Steel				
Minimum A	Activation Flow	0.4 GPM				
Minimum C	ontinuous Flow	0.26 GPM				
Maximi	um Altitude	10,200 ft.				
Ultra	Low NOx	Yes (SCAQMD compliant)				
Wa	arranty	15 Year Heat Exchanger - (w/ registration) 12 Year Heat Exchanger - (w/o registration) 5-Year Parts 1-Year Labor				

Model Number	RUTGH-S	RUTGH-SR			
Height	28-9/16"				
Width	17-5/16"				
Depth	13-11/16"				
Weight	77.6lbs	86lbs			
Venting Diam. Allowed	2" /	′ 3"			
Max. Single Vent Run (straight pipe)	70 ft (2")/	150 ft (3")			
Venting Materials	Sched. 40 PVC, CPVC, PP				
Common Venting (max. units)	2 units ³				
Flex Venting	Allowed: 2" up to 50'				
Manifold Controls (max. units)	Up to 20 units without external control required ⁴				
Controls	Built-in digital display with full-text menus				
Power Supply	120V 60Hz				
Max. Power Consumption	132W (Anti freeze only), 1.1Amps	100W (Normal use), 0.83Amps 200W (Anti freeze), 1.67Amps 3.5W (Standby), 0.03Amps ⁵			
Gas Connection	3.5W (Standby), 0.03Amps ⁵ 3/4"				
Hot Water Connection	3/4"				
Cold Water Connection	3/4"				
Condensate Connection	1/2"	NPT			
Vent Connections Diameter	2" Band Connections (Adapter required to vent with 3" PVC from unit)				

RUTGH-S/SR Tankless Water Heaters

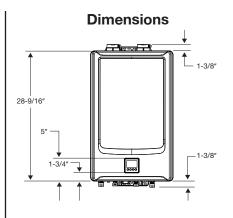


Water Heater Flow Rate Curves



	Temperature Rise (°F)								
Model Number 35° 45° 50° 60° 67° 70° 80° 90°								100°	
RUTGH-S84i/SR84i Water Flow (GPM)	8.4	6.9	6.2	5.2	4.6	4.4	3.9	3.4	3.1
RUTGH-S10i/SR10i Water Flow (GPM)	10.1	7.9	7.1	5.9	5.3	5.1	4.4	3.9	3.5
RUTGH-S11i/SR11i Water Flow (GPM)	11.2	8.8	7.9	6.6	5.9	5.6	4.9	4.4	3.9

Above estimates are for sizing purposes only.



TOP VIEW

6-11/16"

17-5/16"

Venting

SINGLE UNIT: MAX. EQUIVALENT VENT LENGTHS - STRAIGHT PIPE						
Number of 90 Elbows	Max Length 2" straight pipe	Max. length 3" straight pipe				
0	70 ft. (21.3 m)	150 ft. (45.7 m)				
1	64 ft. (19.5 m)	145 ft. (44.2 m)				
2	58 ft. (17.7 m)	140 ft. (42.7 m)				
3	52 ft. (15.8 m)	135 ft. (41.1 m)				
4	46 ft. (14.0 m)	130 ft. (39.6 m)				
5	40 ft. (12.2 m)	125 ft. (38.1 m)				
6	34 ft. (10.4 m)	120 ft. (36.6 m)				

Equivalent Ft. of Elbows						
2" Pipe 3" Pipe						
90° Elbow	6 ft (1.83 m)	5 ft (1.52 m)				
45° Elbow	3 ft. (0.9 m)	2.5 ft. (0.75 m)				

Venting Materials Allowed: Schedule 40 PVC, CPVC, PP

	BOTTOM VII	EW
2" — 2sas Supply Fitting Gas Supply Fitting 6-11/16" Hor Cutlet Fitting	Coolemanie	Recordation (healistic ory or octam models) 4" 13-11/16"

Min. Vent Length Straight Pipe				
Number of 90° Elbows	Min. Length 2" 3" pipe			
1	1.0 ft (0.3 m)			

COMMON VENTING						
# of Water Heaters	3" Common Vent					
2	60 ft.					

SINGLE UNIT: Max. Flex Venting				
Max Length 2" flex vent				
50 ft.				

Hanging bracket, bird screens, LP gas conversion kit are included with water heater.

Parts & Accessories

Condensate Neutralizer	Non-Return Valve	Flex Vent Kit	Pipe Cover	Horizontal Vent Termination	Concentric Vent Termination	AllClear® Water Treatment System	Isolation Valve Kit	Manifold Cables	Outdoor Conversion Kit	Crossover Valve
SP12151 (optional)	SP21088	SP21091	AP20473	2" US: SP21069G 3" US: SP21069E	2" - SP20897 3" - SP20245	RTG20251	RTG20220AB	RCPN-AMP03- 0013111101-0003 (48")	RUTGH-SX	RTG20285

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