

Ruud® Commercial Tankless Water Heater

- Various common venting options, including PVC and Polypropylene
- 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
- Allows flex venting through existing B-vent up to 50'
- Manifold capable up to 32 units

Key Features

- Up to 98% thermal efficiency
- Stainless steel Primary and Secondary heat exchangers provide increased efficiency and durability

- NEW! Modular Rack System with easy buildon-site solution and pre-sized water/gas line manifold configurations. Available in back-toback or in-line options for up to 8 units. See modular table for more details.
- Ruud[®] Exclusive! Hot-start programming[™] ensures the unit is in a ready state between back-to-back usage, avoiding any cold water bursts

Plus...

- Built-in Recirculation pump for no wait continuous hot water at the tap (CSR models)
- Built-in Wi-Fi powered by EcoNet[®] technology for direct control from your device
- LeakGuard[®] All-inclusive leak detection and prevention system that detects any internal leak that comes from the unit.
- 8-year Heat Exchanger Warranty



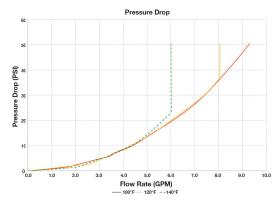
RUTGH-CS/SR Models

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



CLEARANCES					
Top / Bottom 12"					
Front	1/2"5				
Sides	1/2"				
Back / From Vent Pipe	0"				

RECIRCULATION LENGTH (CSR MODELS)				
Pipe Diameter Max. Recirculation Loop				
3/4"	400 ft.			
1/2"	100 ft.			



*When in recirculation, max temperature is 140°F. Set point remains above 140°F for standard demand.

Approved for installations in Manufactured Home (Mobile Home) environments ¹Based on simultaneous showers using 2 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 capacity table by zone for accurate sizing. ²For indoor application, this is the temperature of outdoor intake air. ³Manifolds with standard RJ25 communication cables. ⁴ If anti freeze is on and combustion is no total W wilb e217W (85-152) for CS models and 300W (100+200) for CSR models. ⁵Recommended 24" clearance for service.

Specifications

		DUTO	0.0014	
Rheem Model Number		RUTGH-CS11i RUTGH-CSR11i (Built-In Recirculation Pump)		
	MAX		00 BTU/h	
Gas Input Rate	MIN	11,000 BTU/h		
Uniform Ene	rgy Factor (UEF)	0.96		
Hot Water Flow	MAX (35°F)	-	1.2	
Rate Capacity -	45°F Rise		3.8	
Gallons Per	67°F Rise		5.9	
Minute (GPM)	p. Range		- 185°F	
	ng from Factory		20°F	
Maximum Inlet Return Temperature			.0°F*	
	ation Type		Kit sold separately: RTGH-SX)	
			Natural Gas and LP	
Fu	el Type		onversion kit included)	
Heat Exch	anger Material		Secondary: Stainless Steel	
	Activation Flow		GPM	
Minimum C	ontinuous Flow	0.26	GPM	
Maxim	um Altitude	10,2	200 ft.	
Ultra Low NOx		Meets 14 ng/J N	Ox requirements –	
Ultra Low NOX		SCAQMD Rule 1146.2 compliant		
Wa	arranty	8 Year Heat Exchanger 5-Year Parts 1-Year Lab		
Model Number		RUTGH-CS	RUTGH-CSR	
Height			9/16"	
	Vidth		5/16"	
	Depth		11/16"	
	/eight	77.6lbs 86lbs		
	iam. Allowed		/ 3"	
	t Run (straight pipe)	70 ft (2")/ 150 ft (3")		
	Materials	Sched. 40 PVC, CPVC, Polypropylene		
	nting (max. units)	12 units		
	Venting		2" up to 50'	
-	trols (max. units)		external control required ³	
	ontrols		h full-text menus and Wi-Fi	
	er Supply	- · · · ·	/ 60Hz	
	. cupp.j	85W (Normal use), 0.7Amps	100W (Normal use), 0.83Amps	
Max. Powe	r Consumption	132W (Anti freeze only), 1.1Amps		
	•	3.5W (Standby), 0.03Amps⁴	3.5W (Standby), 0.03Amps⁴	
Gas C	onnection	3/4	" NPT	
		3/4" NPT		
Hot Wate	r Connection	3/4		
			" NPT	
Dedicated Recirc.	r Connection	3/4		
Dedicated Recirc. Cold Wate	r Connection Return (CSR Models)	3/4 3/4	" NPT	
Dedicated Recirc. Cold Wate Condensa	r Connection Return (CSR Models) er Connection	3/4 3/4 1/2 2" Band Connections	" NPT " NPT	



Ruud[®] Commercial Tankless Max Vent Length (ft) (PP or PVC)

			7	
VENT	SIZE	3"	4"	6"
	2	60	150	170
	3	40	150	170
	4	30	70	170
	5	25	45	170
	6		35	170
Max. Units	7		30	170
	8		25	170
	9			95
	10			95
	11			50
	12			50



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)			

MIN. VENT LENGTH STRAIGHT PIPE	
Number of 90° Elbows	Min. Length 2" 3" pipe
1	1.0 ft (0.3 m)

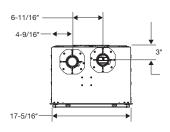
EQUIVALENT FT. OF ELBOWS				
	2" Pipe	3" Pipe		
90° Elbow	6 ft (1.83 m)	5 ft (1.52 m)		
45° Elbow	3 ft. (0.9 m)	2.5 ft. (0.75 m)		

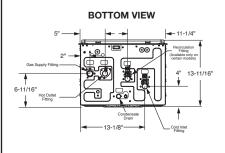
Venting Materials Allowed: Schedule 40 PVC, CPVC, Polypropylene

SINGLE UNIT: MAX. FLEX VENTING	
Max Length 2" flex vent	
50 ft.	

0	Dimensions	
		<u>↓</u>
Î		1-3/8″
28-9/16"		
1-3/4"		↓ ^{1-3/8″}
↑ ↑		1

TOP VIEW





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

Parts & Accessories

Multi-unit Condensate Neutralizer	Condensate Neutralizer	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
RTG20372	RTG20329AR (optional)		RTG20322	2" US: SP21069G 3" US: SP21069E	2" - SP20897 3" - SP20245	RTG20251	RTG20326	RCPN-AMP03- 0013111101-0003 (48")	RTGH-SX	RTG20285

Modular Rack System and Accessories

Rack System for DIY On-Site Assembly

Modular Rack	Rack Add-on Extension	4x4 Manifold Kit (4BB)	4x0 Manifold Kit (4SS)	3x0 Manifold Kit (3SS)	2x2 Manifold Kit (2BB)	2x0 Manifold Kit (2SS)
AP24551	AP24552	AP24553	AP24554	AP24555	AP24556	AP24557

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

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