The new degree of comfort.®

Rheem® RTGH Series Super High Efficiency Condensing Tankless Gas Water Heaters

Easy Installation

- PVC Vent runs up to 60' (2"), 150' (3")
- Enhanced design is up to 20% smaller and lighter making one-person installs even easier

Ready for Retrofits

- Industry Best! 1/2" side to side clearance allows you to safely work in spaces the competition can't
- 1/2" Gas line compatibility up to 24 ft (subject to local code)

Key Features

- Rheem® Exclusive! Hot-start
 Programming™ ensures the unit is in a ready state between back-to-back usage, minimizing any cold water bursts
- Built-in EcoNet® Wi-Fi technology for direct control from your device (on select models)
- LeakGuard® All-inclusive leak detection and prevention system that detects any leak that comes from the unit (on indoor Wi-Fi models)

Specifications

Rheem Model Number		RTGH-68DVLN-3	RTGH-84DVLN-3	RTGH-90DVLN-3	RTGH-95DVLN-3 RTGH-95DVELN-3			
Built-in LeakGuard™ Model Number					RTGH-95DVELN-3 (Wi-Fi Model)			
Gas Input MAX		120,000 BTU/h	157,000 BTU/h 180,000 BTU/h		199,900 BTU/h			
Rate	MIN	11,000 BTU/h	11,000 BTU/h	11,000 BTU/h	11,000 BTU/h			
Uniform Energy	Factor (UEF)	0.90	0.93					
Hot Water Flow Rate	MAX (35°F)	6.6	8.4	9.0	9.5			
Capacity – Gallons Per	45°F Rise	5.1	6.7	7.7	8.5			
Minute (GPM)	67°F Rise	3.4	4.6	5.2	5.7			
Number of B	athrooms¹	2.5	3	3 - 4	4			
Temp. F	Range		100°F	- 140°F				
Temp. Setting t	from Factory		12	20°F				
High Temp. Availa	Upgrade ible		1	No				
Freeze Pro	otection		-30°F Air Intak	e ² , -4°F Ambient				
Installatio	on Type	Indoor (O	utdoor Conversion	Kit sold separatel	y: RTGH-X)			
Heat Exchanger Material		Primary: Copper - Secondary: Stainless Steel						
Minimum Acti		0.4 GPM						
Minimum Cont	inuous Flow	0.26 GPM						
Maximum		7,800 ft.						
Ultra Lov		Meets 14 ng/J NOx requirements - SCAQMD Rule 1146.2 compliant 15 year Heat Exchanger 5-Year Parts 1-Year Labor						
Warra	-	15 year l			Year Labor			
Heig				3.7"				
	Width		17.7" 9.8"					
Dep		9.8° 52.9						
	Weight (Lbs.)							
	Venting Diam. Allowed		2"	/ 3"				
Max. Single (straight		60 ft (2") / 150 ft (3")						
Venting M	aterials	Sched. 40 PVC, CPVC, Polypropylene						
Manifold ((max. u		6 Units ³						
Contr	ols	Built-in digital display						
Power S	Supply	120V 60Hz						
Max. Po Consum		85W (Normal use), 0.7 Amps 132W (Antifreeze), 1.1 Amps 3.5W (Standby), 0.03 Amps ⁴						
Gas Coni	nection	3/4" NPT						
Hot Water C	onnection	3/4" NPT						
Cold Water 0	Connection	3/4" NPT						
Condensate (Connection	1/2" NPT						
Vent Conr Diame		2" Band Connections (Adapter required to vent with 3" PVC from unit)						

All models are available in Natural Gas or Propane (LP). For Propane replace the N with P for LP model.



RTGH Series Models

Indoor Models
(Outdoor Conversion Kit
Available: **RTGH-X**)
11,000-199,900 BTU/h
Natural Gas and
Liquid Propane Models*

*Swap P for N in model number for Liquid Propane model



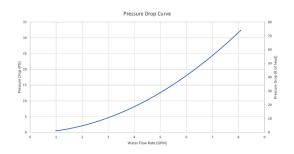








Clearances					
Top / Bottom	12"				
Front	1/2"5				
Sides	1/2"				
Back / From Vent Pipe	0"				

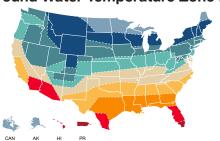


¹Based on simultaneous showers using 2.0 GPM flow rate pre-mixed with cold water line. Flow rates vary depending on temperature of incoming cold water and water heater set temperature. Refer to 9 zone ground water temperature map for accurate sizing. ²For indoor application, this is the temperature of outdoor intake air. ³ Manifolds with standard RJ11 communication cables. ⁴If anti freeze is on and combustion is on, total W will be 217W (85+132). ⁵ Recommended 24* clearance for service.





US Ground Water Temperature Zone Map



Average Flow Rates (GPM) by Application

Low Flow Faucet	0.5
Bathroom Faucet	1
Kitchen Faucet	1.5
Shower	2
Dishwasher	2
Washing Machine	3

Flow rates may vary.

Flow Rate Capacity Table by Zone (Gallons Per Minute - GPM)

Use the U.S. Ground Water Temperature Map to locate your zone. Then use the Flow Rate Capacity Table to determine model flow rate by zone. Flow rates calculated for tankless set temperature of 120°F with a mixed shower temperature of 105°F. Ground water temperatures vary seasonally.

MODEL#	Zone 1 37°F	Zone 2 42°F	Zone 3 47°F	Zone 4 52°F	Zone 5 57°F	Zone 6 62°F	Zone 7 67°F	Zone 8 72°F	Zone 9 77°F
RTGH-95	4.6	4.9	5.3	5.6	6.1	6.6	7.2	8.0	8.9
RTGH-90	4.2	4.4	4.7	5.1	5.5	6.0	6.5	7.2	8.0
RTGH-84	3.6	3.9	4.1	4.4	4.8	5.2	5.7	6.3	7.0
RTGH-68	2.8	3.0	3.2	3.4	3.7	4.0	4.3	4.8	5.4

Venting

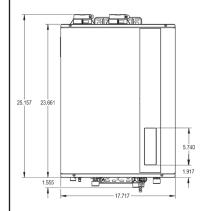
SINGLE UNIT: MAX. EQUIVALENT VENT LENGTHS - STRAIGHT PIPE						
Number of 90 Elbows	Max Length 2" straight pipe	Max. length 3" straight pipe				
0	60 ft. (18.3 m)	150 ft. (45.7 m)				
1	54 ft. (16.5 m)	144 ft. (43.9 m)				
2	48 ft. (14.6 m)	138 ft. (42.7 m)				
3	42 ft. (12.8 m)	132 ft. (40.2 m)				
4	36 ft. (11.0 m)	126 ft. (38.4 m)				
5	30 ft. (9.1 m)	120 ft. (36.6 m)				
6	24 ft. (7.3 m)	114 ft. (34.7 m)				

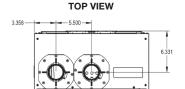
Min. Vent Length Straight Pipe				
Number of 90° Elbows	Min. Length 2" 3" pipe			
1	1.0 ft (0.3 m)			

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

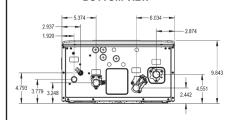
Venting Materials Allowed: Schedule 40 PVC, CPVC, Polypropylene

Dimensions





BOTTOM VIEW



Hanging bracket and bird screens are included with water heater.

Parts & Accessories

Condensate Neutralizer	Recirculation Pump	Pipe Cover	Horizontal Vent Termination	Concentric Vent Termination	AllClear® Water Treatment System	Isolation Valve Kit	Manifold Cables	Outdoor Conversion Kit
RTG20329AR (optional)	AP17920	RTG20329AT	2" US: SP20285 3" US: SP20286	2" - SP20897 3" - SP20245	RTG20251	RTG20326	RCPN-AMP03- 0013111101-0003 (48")	RTGH-X
2.1						1		

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

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