



The new degree of comfort.®



Residential Gas
RTGH-S/SR Tankless Water Heaters

Rheem® IKONIC™ 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 – **Rheem® 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)



Specifications

COMING SOON!

| Rheem Model Number | | RTGH-S84i RTGH-SR84i | RTGH-S10i RTGH-SR10i | RTGH-S11i RTGH-SR11i |
|----------------------------------|------------|--|-------------------------|-------------------------|
| Gas Input Rate | MAX | 157,000 BTU/h | 180,000 BTU/h | 199,900 BTU/h |
| | MIN | 11,000 BTU/h | 11,000 BTU/h | 11,000 BTU/h |
| Uniform Energy Factor (UEF) | | 0.96 | | |
| Gallons Per Minute (GPM) | MAX (35°F) | 8.4 | 10.1 | 11.2 |
| | 45°F Rise | 6.9 | 7.9 | 8.8 |
| | 67°F Rise | 4.6 | 5.3 | 5.9 |
| Number of Bathrooms ¹ | | 🚿🚿🚿 | 🚿🚿🚿🚿 | 🚿🚿🚿🚿🚿 |
| Temp. Range | | 85°F - 140°F | | |
| Temp. Setting from Factory | | 120°F | | |
| Installation Type | | Indoor (Outdoor Conversion Kit sold separately: RTGH-SX) | | |
| Fuel Type | | Compatible with Natural Gas and LP (ships NG with LP conversion kit included) | | |
| Heat Exchanger Material | | Primary: Stainless Steel – Secondary: Stainless Steel | | |
| Minimum Activation Flow | | 0.4 GPM | | |
| Minimum Continuous Flow | | 0.26 GPM | | |
| Maximum Altitude | | 10,200 ft. | | |
| Ultra Low NOx | | Yes (SCAQMD compliant) | | |
| Warranty | | 15 Year Heat Exchanger - (w/ registration) 12 Year Heat Exchanger - (w/o registration) 5-Year Parts 1-Year Labor | | |

| Model Number | RTGH-S | RTGH-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 | 85W (Normal use), 0.7Amps 132W (Anti freeze only), 1.1Amps 3.5W (Standby), 0.03Amps ⁵ | 100W (Normal use), 0.83Amps 200W (Anti freeze), 1.67Amps 3.5W (Standby), 0.03Amps ⁵ |
| Gas Connection | 3/4" NPT | |
| Hot Water Connection | 3/4" NPT | |
| Cold Water Connection | 3/4" NPT | |
| Condensate Connection | 1/2" NPT | |
| Vent Connections Diameter | 2" Band Connections (Adapter required to vent with 3" PVC from unit) | |

RTGH-S/SR Models

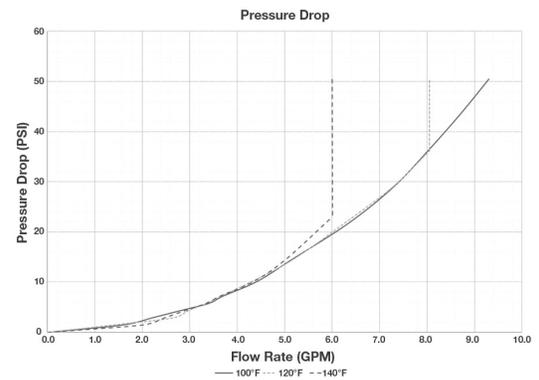
(Non-recirculation S Models
COMING SOON!)

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 (SRi Models) | |
|-----------------------------------|-------------------------|
| Pipe Diameter | Max. Recirculation Loop |
| 3/4" | 400 ft. |
| 1/2" | 100 ft. |



¹ 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. ² For indoor application, this is the temperature of outdoor intake air. ³ External check valve required for installation. ⁴ Manifolds with standard RJ25 communication cables. ⁵ If anti freeze is on and combustion is on, total W will be 217W (85+132). ⁶ Recommended 24" clearance for service.



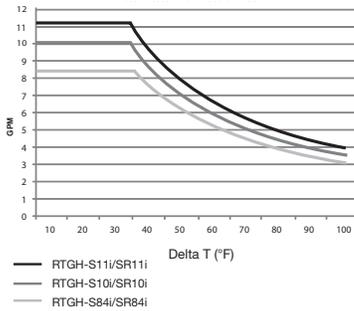
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Water Heater Flow Rate Curves



| Model Number | Temperature Rise (°F) | | | | | | | | | |
|----------------------------------|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| | 35° | 45° | 50° | 60° | 67° | 70° | 80° | 90° | 90° | 100° |
| RTGH-S84i/SR84i Water Flow (GPM) | 8.4 | 6.9 | 6.2 | 5.2 | 4.6 | 4.4 | 3.9 | 3.4 | 3.1 | |
| RTGH-S10i/SR10i Water Flow (GPM) | 10.1 | 7.9 | 7.1 | 5.9 | 5.3 | 5.1 | 4.4 | 3.9 | 3.5 | |
| RTGH-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.

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) |

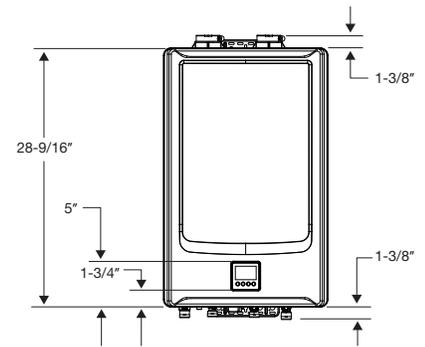
Venting Materials Allowed: Schedule 40 PVC, CPVC, PP

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

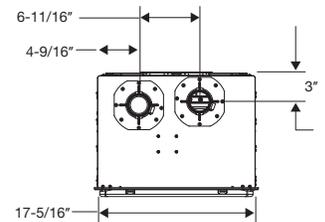
| COMMON VENTING | |
|--------------------|----------------|
| # of Water Heaters | 3" Common Vent |
| 2 | 60 ft. |

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

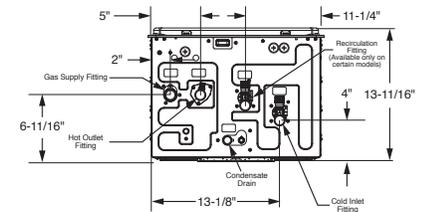
Dimensions



TOP VIEW



BOTTOM VIEW



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') | RTGH-SX | RTG20285 |
| | | | | | | | | | | |

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

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