



The new degree of comfort.®

Commercial Water

Commercial Gas
RTGH-CS/CSR Tankless
Water Heaters

Rheem® IKONIC® 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
- Ready-to-Install factory-built rack systems, available in wall-hung configurations (2 units or 3 units) or floor-mounted setups (up to 6 units). These rack systems come preprogrammed with electrical and manifolding features*

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 build-on-site solution and pre-sized water/gas line manifold configurations. Available in back-to-back or in-line options for up to 8 units. See modular table for more details.

- **Rheem® 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 EcoNet® Wi-Fi 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



RTGH-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

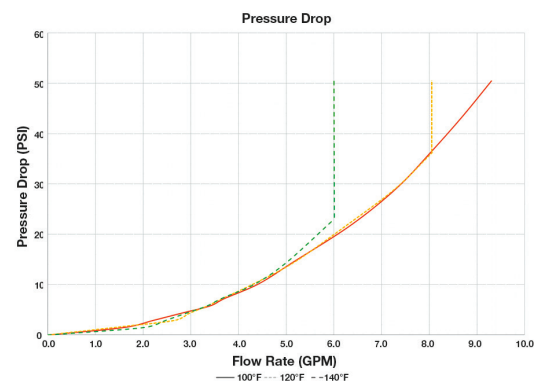


| Rheem Model Number | | RTGH-CS11i RTGH-CSR11i (Built-In Recirculation Pump) |
|---|------------|---|
| Gas Input Rate | MAX | 199,900 BTU/h |
| | MIN | 11,000 BTU/h |
| Uniform Energy Factor (UEF) | | 0.96 |
| Hot Water Flow Rate Capacity – Gallons Per Minute (GPM) | MAX (35°F) | 11.2 |
| | 45°F Rise | 8.8 |
| | 67°F Rise | 5.9 |
| Temp. Range | | 85°F - 185°F |
| Temp. Setting from Factory | | 120°F |
| Maximum Inlet Return Temperature | | 140°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 | | Meets 14 ng/J NOx requirements – SCAQMD Rule 1146.2 compliant |
| Warranty | | 8 Year Heat Exchanger 5-Year Parts 1-Year Labor |

| Model Number | RTGH-CS | RTGH-CSR |
|---------------------------------------|--|--|
| 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, Polypropylene | |
| Common Venting (max. units) | 12 units | |
| Flex Venting | Allowed: 2" up to 50' | |
| Manifold Controls (max. units) | Up to 32 units without external control required ³ | |
| Controls | Built-in digital display with full-text menus and Wi-Fi | |
| Power Supply | 120V 60Hz | |
| Max. Power Consumption | 85W (Normal use), 0.7Amps 132W (Anti freeze only), 1.1Amps 3.5W (Standby), 0.03Amps ⁴ | 100W (Normal use), 0.83Amps 200W (Anti freeze), 1.67Amps 3.5W (Standby), 0.03Amps ⁴ |
| Gas Connection | 3/4" NPT | |
| Hot Water Connection | 3/4" NPT | |
| Dedicated Recirc. Return (CSR Models) | 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) | |

| 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. |



*INCLUDED ON RACK SPEC Sheet. See Commercial Tankless Systems spec sheet for more information.

**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

¹ Based 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. ² For indoor application, this is the temperature of outdoor intake air.

³ Manifolds with standard RJ25 communication cables. ⁴ If anti freeze is on and combustion is on, total W will be 217W (85+132) for CS models and 300W (100+200) for CSR models. ⁵ Recommended 24" clearance for service.

RHEEM COMMERCIAL WATER

10/24 FORM NO. TK-RTGHCS



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RTGH-CS/CSR Tankless
Water Heaters

IKONIC® Commercial

Max Vent Length (ft) (PP or PVC)

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

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) |

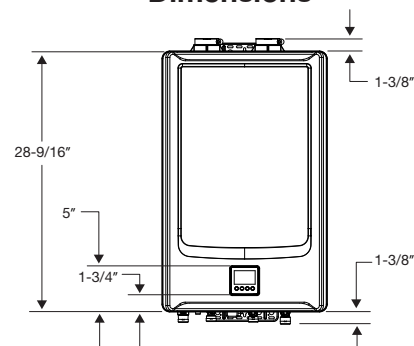
| MIN. VENT LENGTH STRAIGHT PIPE | |
|--------------------------------|------------------------|
| Number of 90° Elbows | Min. Length 2" 3" pipe |
| 1 | 1.0 ft (0.3 m) |

| 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) |

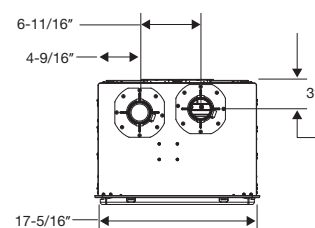
Venting Materials Allowed: Schedule 40 PVC, CPVC, Polypropylene

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

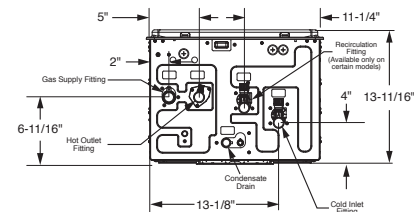
Dimensions



TOP VIEW



BOTTOM 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) | SP21091 | 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, Rheem reserves the right to make changes without notice.

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