

Type of Appliance

- Temperature controlled, continuous flow, gas hot water system
- Certified for installation in manufactured (mobile) homes
- Forced combustion

Rinnai Model Number

REU-VC2837W-US

Operation / Installation

Forced combustion; outdoor only

Minimum/Maximum Gas Rate (Input)

10,300 - 199,000 BTU/h (3.02-58.3kWh)

Electrical

Appliance: AC 120 Volts - 60 Hz
Controller: DC 12 Volts

Electrical Consumption

Normal: 65 w Standby: 2 w Anti-frost protection: 104 w

Amperage

Max : 4A Fuse: 10A

Ignition System

Direct electronic ignition

Hot Water Capacity

Minimum flow rate: 0.26 GPM (1 l/min)
Minimum activation flow rate: 0.4 GPM (1.5l /min)
Maximum flow rate: 9.8 GPM (37.1 l/min)

Temperature

98° - 120°F (37° - 49°C) (factory default) Maximum temperature is selectable at 120°F (49°C) or at 140°F (60°C) ; 98° - 185°F (37° - 85°C) available with the MCC-91-2 controller for hydronic applications

Temperature (without remote)

120°F (49°C) (factory default) or 140°F (60°C)

Installation

Outdoor only

Uniform Energy Factor (UEF)

0.81

Service Connections

Gas supply: 3/4 inch(19mm) MNPT, Cold water inlet: 3/4 inch(19mm) MNPT
Hot water outlet: 3/4 inch(19mm) MNPT

Water Flow Control

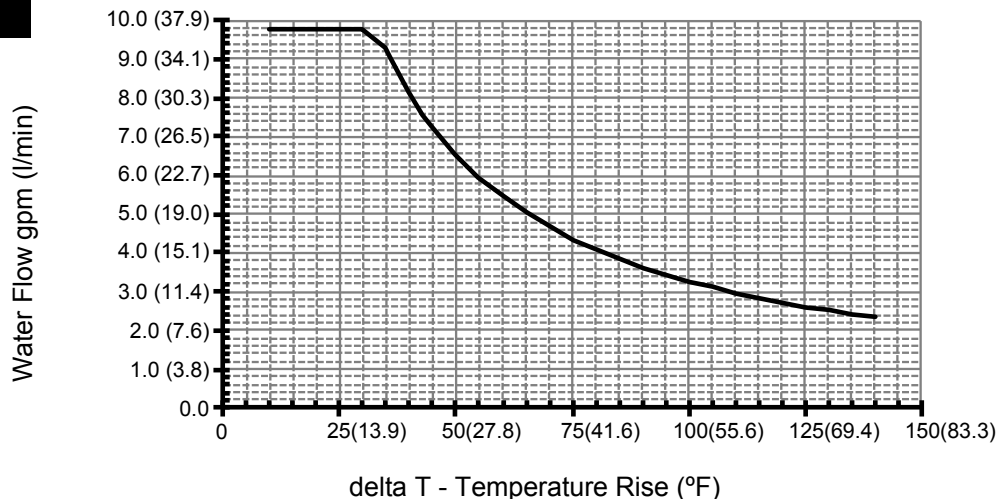
Water flow sensor, electronic water control device and by-pass

Minimum/Maximum Water Supply Pressure

20 - 150 PSI (138-1035 KPa) (recommended 30-80 PSI (209 - 552 KPa) for optimal performance)

Rinnai is continually updating and improving products; therefore, specifications are subject to change without prior notice. Local, state, provincial and federal codes must be adhered to prior to installation.

FLOW TABLE



Water Temperature Control

Controller

Simulation feed forward and feedback

MC-91-2US (included)

Deluxe controller: MC-100V-1US (optional)

Bathroom controller: BC-100V-1US (optional)

MCC-91-2US (optional; for hydronic and commercial applications)

Controller Cable

Non-polarized two-core cable, minimum 22 AWG

Safety Devices

- Flame failure - Flame Rod
- Boiling protection
- Combustion fan rpm check
- Over current - glass fuse
- Remaining flame (OHS)
- Thermal fuse
- Automatic frost protection

Clearances from Combustibles

- Top of heater - 12 inches(305mm)
- Front (Panel) - 24 inches(610mm)
- Front (Exhaust) - 24 inches(610mm)
- Back of heater - 0 inches
- Bottom of heater - 12 inches(305mm)
- Sides of heater - 6 inches(152mm)

Clearances from Non-combustibles

* 24 inches required for serviceability

- Top of heater - 2 inches(51mm)
- Front (Panel) - 0 inches *
- Front (Exhaust) - 24 inches(610mm)
- Back of heater - 0 inches
- Bottom of heater - 2 inches(51mm)
- Sides of heater - 1/8 inch(3.2mm)

Min. / Max. Gas Supply Pressure

Natural Gas: min 4" W.C. (10mbar) max 10.5" W.C. (26.1mbar)

Propane Gas: min 8" W.C. (20mbar) max 13.5" W.C. (33.6mbar)

Manifold Gas Pressure (inches W.C.) (sea level)

Natural Gas: high fire 2.5" W.C. (6.23mbar) low fire 0.52" W.C. (1.30mbar)

Propane Gas: high fire 4.5" W.C. (11.21mbar) low fire 0.80" W.C. (2.00mbar)

NOx

Complies with South Coast Air Quality Management District 14 ng/J or 20 ppm NOx emission levels

Limited Warranty

Heat exchanger: 10 years* for residential and hydronic applications, increased to 12 years* if installed with an isolation valve kit; All other parts: 5 years*; Labor: 1 year

(* reduced to 3 years if used as a circulating water heater within a circulation loop, when the water heater is in series with a circulation system and all circulating water flows through the water heater) Refer to the manual for complete warranty information.

