

**Type of Appliance**

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

**Rinnai Model Number**

REU-VC2837WD-US

**Operation / Installation**

Forced combustion; outdoor only

**Minimum/Maximum Gas Rate (Input)**

10,300 - 199,000 BTU/h

**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 with pump: 8A Max without pump: 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 commercial and hydronic applications

**Temperature (without remote)**

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

**Installation**

Outdoor only

**Energy Factor**

Natural Gas: 0.82 Propane: 0.82

**Service Connections**

Gas supply: 3/4 inch MNPT Cold water inlet: 3/4 inch MNPT  
 Hot water outlet: 3/4 inch MNPT

**Isolation & Pressure Relief Valves Included**

Isolation Valves are certified to NSF/ANSI 61 for potable water

**Water Flow Control**

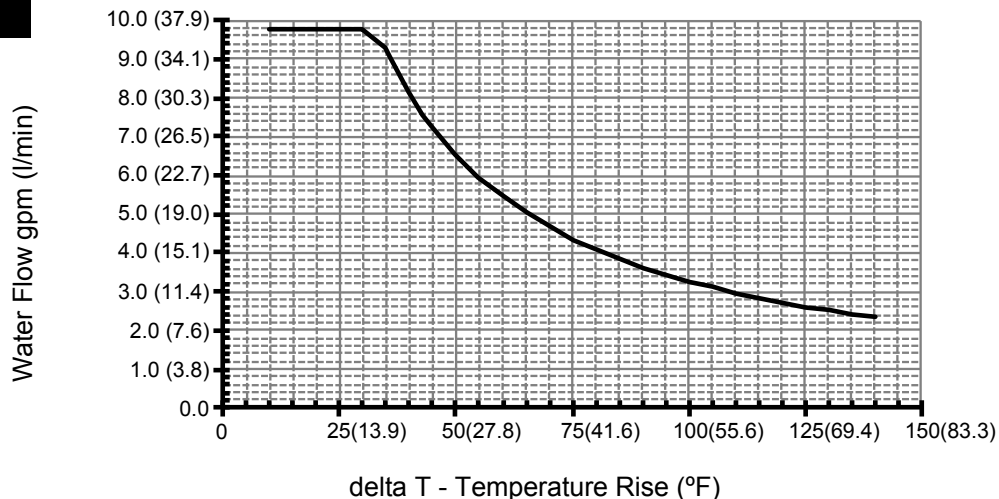
Water flow sensor, electronic water control device and by-pass

**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**



**External Recirculation Pump Control**  
**Water Temperature Control**  
**Controller**

**Controller Cable**  
**Safety Devices**

**Clearances from Combustibles**

**Clearances from Non-combustibles**  
 \* 24 inches required for serviceability

**Min. / Max. Gas Supply Pressure**

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

**NOx**

Rinnai Circ-Logic™ (Included): Recirculation program cycles external pump

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)
- MC-195T-US (optional; for use with Circ-Logic)

Non-polarized two-core cable, minimum 22 AWG

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

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)

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)

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

**Limited Warranty** Heat exchanger: 12 years\* for residential, 10 years for residential and space heating, and 5 years\* for commercial; All other parts: 5 years\*; Labor: 1 year; (\* 3 years from date of purchase when used as a recirculating water heater within a hot water recirculation loop, where the water heater is in series with a recirculation system and all recirculating water flows through the water heater, and where an aquastat/thermostat, timer, or an on-demand recirculation system is not incorporated.) Refer to the manual for complete warranty information.

**DIMENSIONS**

**WEIGHT: 44.3 lb (20.1 kg)**

DIMENSION	Inches (mm)	DIMENSION	Inches (mm)
A (GAS)	1.31 (33.2)	D	4.33 (110)
A (COLD)	1.93 (49)	E	2.91 (73.8)
A (HOT)	1.35 (34.4)	F	1.61 (40.8)
B	3.96 (100.7)	G	2.87 (73)
C	1.17 (29.8)		