**Type of Appliance**
- Temperature controlled, continuous flow, gas hot water system
- Certified for installation in manufactured (mobile) homes
- Forced combustion / Direct vent

**Rinnai Model Number**
REU-VC2837FFUD-US

**Operation / Installation**
Forced combustion; indoor only

**Minimum/Maximum Gas Rate (Input)**
10,300 - 199,000 BTU/h

**Electrical**
- Appliance: AC 120 Volts - 60 Hz
- Controller: DC 12 Volts
- 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)
  - Maximum flow rate: 9.8 GPM (37.1 l/min)
- Temperature:
  - 98° - 120°F (37° - 49°C) (factory default)
- Temperature (without remote):
  - 120°F (49°C) (factory default) or 140°F (60°C)
- Installation: Indoor only
- Uniform Energy Factor (UEF): 0.81
- 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**

<table>
<thead>
<tr>
<th>delta T - Temperature Rise (°F)</th>
<th>Water Flow gpm (l/min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>10.0 (37.9)</td>
</tr>
<tr>
<td>25</td>
<td>9.0 (34.1)</td>
</tr>
<tr>
<td>50</td>
<td>8.0 (30.3)</td>
</tr>
<tr>
<td>75</td>
<td>7.0 (26.5)</td>
</tr>
<tr>
<td>100</td>
<td>6.0 (22.7)</td>
</tr>
<tr>
<td>125</td>
<td>5.0 (19.0)</td>
</tr>
<tr>
<td>150</td>
<td>4.0 (15.1)</td>
</tr>
<tr>
<td>174</td>
<td>3.0 (11.4)</td>
</tr>
<tr>
<td>200</td>
<td>2.0 (7.6)</td>
</tr>
<tr>
<td>225</td>
<td>1.0 (3.8)</td>
</tr>
<tr>
<td>250</td>
<td>0.0</td>
</tr>
</tbody>
</table>

© 2017 Rinnai

RL94i VC SP(02)  5/2017
External Recirculation Pump Control
Rinnai Circ-Logic™ (Included): Recirculation program cycles external pump

Water Temperature Control
Simulation feed forward and feedback

Controller
MC-91-2US (part of the front panel)
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)

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
(suitable for closet, attic, and crawl space installations)
- Top of heater - 6 inches (152mm)
- Front of heater - 6 inches (152mm)
- Sides of heater - 2 inches (51mm)
- Back of heater - 0 inches
- Ground / bottom - 12 inches (305mm)
- From vent pipe - 0 inches

Clearances from Non-combustibles
- Top of heater - 2 inches (51mm)
- Front of heater - 6 inches (152mm)
- Sides of heater - 1/2 inch (13mm)
- Back of heater - 0 inches
- Ground / bottom - 12 inches (305mm)
- From vent pipe - 0 inches

Min. / Max. Gas Supply Pressure
(sea level)
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.)
Natural Gas: high fire 2.9” W.C. (7.22mbar) low fire 0.61” W.C. (1.52mbar)
Propane Gas: high fire 4.7” W.C. (11.71mbar) low fire 0.87” W.C. (2.17mbar)

NOx
Complies with South Coast Air Quality Management District 40 ng/J or 55 ppm

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: 46.3 lb (21.0 kg)

<table>
<thead>
<tr>
<th>DIMENSION</th>
<th>Inches (mm)</th>
<th>DIMENSION</th>
<th>Inches (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A (GAS)</td>
<td>1.31 (33.2)</td>
<td>D</td>
<td>4.33 (110)</td>
</tr>
<tr>
<td>A (COLD)</td>
<td>1.93 (49)</td>
<td>E</td>
<td>2.89 (73.3)</td>
</tr>
<tr>
<td>A (HOT)</td>
<td>1.35 (34.4)</td>
<td>F</td>
<td>1.85 (47)</td>
</tr>
<tr>
<td>B</td>
<td>4.21 (106.9)</td>
<td>G</td>
<td>3.44 (87.3)</td>
</tr>
<tr>
<td>C</td>
<td>1.17 (29.8)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Rinnai Corporation • 103 International Drive • Peachtree City, GA 30269 • Toll-Free: 1-800-621-9419 • Fax: 678-364-8643 • www.rinnai.us