Type of Appliance: Condensing, Tankless, Temperature controlled, continuous flow, gas hot water system, Energy Star Qualified

Rinnai model number: REU-KB3237WD-US

Operation / Installation: Forced combustion; outdoor only; Certified for installation in Manufactured (Mobile) Homes

Minimum/Maximum Gas Rate (Input): 15,200 - 199,000 BTU/h (4.5-58.3 kWh)

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

Electrical Consumption:
- Normal: 71 w
- Standby: 2 w
- Anti-frost protection: 168 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)
- 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°- 49°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)

Approved Gas Types:
- Natural or Propane (ensure unit matches gas type)

Energy Factor (EF):
- Natural Gas: 0.95
- Propane: 0.95

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

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 and by-pass control

Minimum/Maximum Water Supply Pressure:
- 20 - 150 PSI (138-1035 KPa) (recommended 60 - 80 PSI (414 - 552 KPa) for optimal performance)

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**FLOW TABLE**

<table>
<thead>
<tr>
<th>Water Flow gpm (l/min)</th>
<th>delta T - Temperature Rise °F (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.0 (37.9)</td>
<td></td>
</tr>
<tr>
<td>9.0 (34.1)</td>
<td></td>
</tr>
<tr>
<td>8.0 (30.3)</td>
<td></td>
</tr>
<tr>
<td>7.0 (26.5)</td>
<td></td>
</tr>
<tr>
<td>6.0 (22.7)</td>
<td></td>
</tr>
<tr>
<td>5.0 (19.0)</td>
<td></td>
</tr>
<tr>
<td>4.0 (15.1)</td>
<td></td>
</tr>
<tr>
<td>3.0 (11.4)</td>
<td></td>
</tr>
<tr>
<td>2.0 (7.6)</td>
<td></td>
</tr>
<tr>
<td>1.0 (3.8)</td>
<td></td>
</tr>
<tr>
<td>0.0</td>
<td></td>
</tr>
</tbody>
</table>

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RU98e-SP(02) 7/2015

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.
External Recirculation Pump Control

Built in Rinnai Circ-Logic™: Recirculation program cycles external pump

Controller

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)
MC195T-US (optional; for use with Re-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

- 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

- 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. (2.5mbar) 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 3.0" W.C. (7.5mbar) low fire 0.41" W.C. (1.0mbar)
Propane Gas: high fire 3.5" W.C. (8.7mbar) low fire 0.46" W.C. (1.2mbar)

NOx

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 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, 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: 61 lb (28 kg)

<table>
<thead>
<tr>
<th>DIM</th>
<th>Inches (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A (GAS)</td>
<td>1.6 (40.2)</td>
</tr>
<tr>
<td>A (COLD)</td>
<td>2.0 (50.2)</td>
</tr>
<tr>
<td>A (HOT)</td>
<td>1.6 (41.2)</td>
</tr>
<tr>
<td>A (CONDENSATE OUTLET)</td>
<td>0.9 (22.4)</td>
</tr>
<tr>
<td>B</td>
<td>5.0 (127.2)</td>
</tr>
<tr>
<td>C</td>
<td>1.9 (47.8)</td>
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<tr>
<td>D</td>
<td>0.52 (13.3)</td>
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<tr>
<td>E</td>
<td>2.2 (56.3)</td>
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<tr>
<td>F</td>
<td>2.3 (58.3)</td>
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<tr>
<td>G</td>
<td>5.0 (127.2)</td>
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<tr>
<td>H</td>
<td>2.0 (50)</td>
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<tr>
<td>I</td>
<td>3.0 (76)</td>
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<tr>
<td>J</td>
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<td>K</td>
<td>18.3 (466)</td>
</tr>
</tbody>
</table>

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