Type of Appliance: Temperature controlled, continuous flow, gas hot water system for residential applications.

Rinnai Model Number: REU-VAM1620W-US

Operation: With or without remote controls (controller not included; error codes displayed on front panel LED indicator)

Exhaust System: Forced combustion

Minimum/Maximum Gas Rate (Input):
- Propane: 20,200-120,000 BTU/h (5.9-35.2 kWh)
- Natural Gas: 19,000-120,000 BTU/h (5.6-35.2 kWh)

Electrical:
- Appliance: AC 120 Volts - 60 Hz
- Remote Control (optional): DC 12 Volts

Electrical Consumption:
- Normal: 33 watts
- Standby: 2 watts
- Anti-frost protection: 74 watts
- Max: 2A
- Fuse: 3A

Ignition System: Direct electronic ignition

Hot Water Capacity: 0.6 to 5.3 GPM (2.3 l/min to 20.1l/min)

Temperature Range:
- 98° - 140° F (37° - 60° C) (when using optional controller)
- 120° F (49° C) (factory default) or 140° F (60° C)

Temperature Settings without a controller: Natural or Propane (ensure unit matches gas type)

Approved Gas Types: Natural or Propane

Installation: Outdoor only; residential 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

Water Flow Control: Water flow sensor, electronic water control device and fixed 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>Water Flow gpm (l/min)</th>
<th>delta T - Temperature Rise (°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>1.0 (3.8)</td>
<td>20(13.9)</td>
</tr>
<tr>
<td>2.0 (7.6)</td>
<td>50(27.8)</td>
</tr>
<tr>
<td>3.0 (11.4)</td>
<td>75(41.6)</td>
</tr>
<tr>
<td>4.0 (15.1)</td>
<td>100(55.6)</td>
</tr>
<tr>
<td>5.0 (19.0)</td>
<td>125(69.4)</td>
</tr>
<tr>
<td>6.0 (22.7)</td>
<td>150(83.3)</td>
</tr>
</tbody>
</table>

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**Water Temperature Control Controller (optional)**
- Simulation feed forward and feedback
- MC-91-2US (optional)
- Deluxe controller: MC-100V-1US (optional)
- Bathroom controller: BC-100V-1US (optional)

**Remote Control 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 (3 amp)
- Remaining flame (OHS)
- Thermal fuse
- Automatic frost protection

**Clearances from Combustibles** (suitable for closet, attic, and crawl space installations)
- 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. (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 2.50” W.C. (6.2mbar) low fire 0.73” W.C. (1.8mbar)
- Propane Gas: high fire 2.40” W.C. (6.0mbar) low fire 0.75” W.C. (1.9mbar)

**NOx**
- Complies with South Coast Air Quality Management District 40 ng/J or 55 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.

**Dimensions**
- **WEIGHT:** 34.2 LBS (15.5 KG)
- **HOT WATER OUTLET**
- **COLD WATER INLET**
- **GAS CONNECTION**

**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.