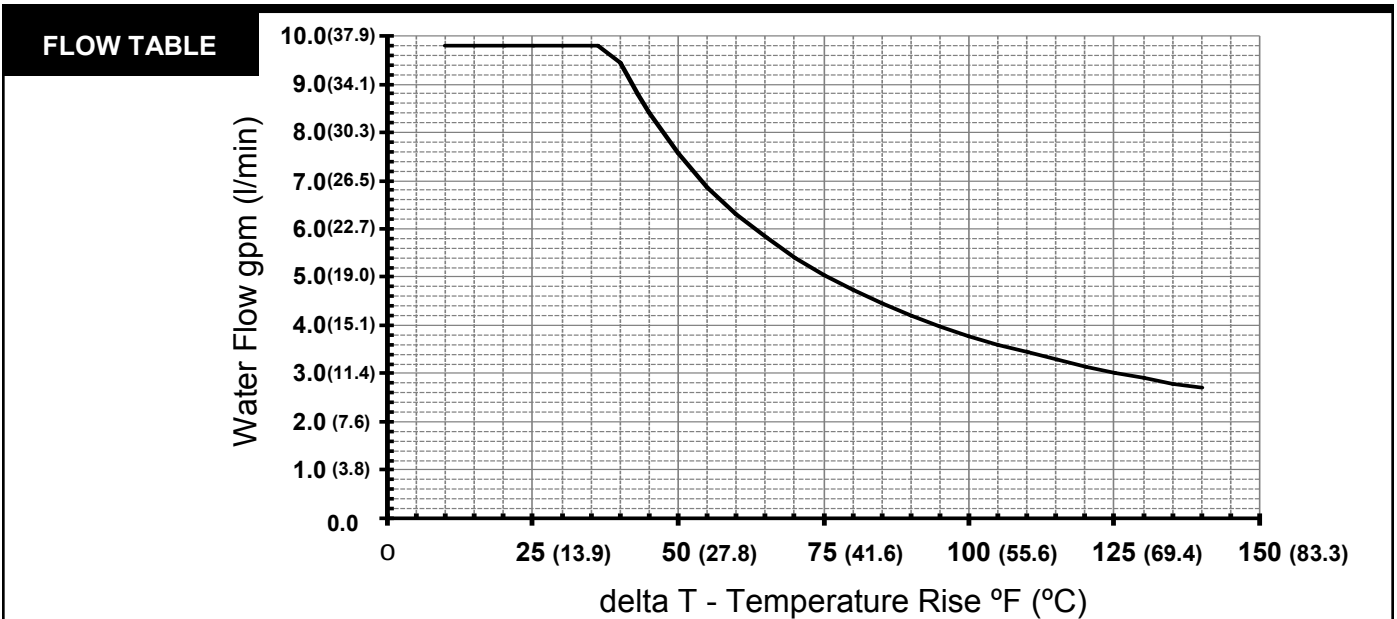


<b>Type of Appliance</b>	Commercial Condensing Tankless Water Heater, Commercial Energy Star
<b>Rinnai model number</b>	REU-KBD3237FFUDC-US
<b>Operation / Installation</b>	Forced combustion; indoor only;
<b>Minimum/Maximum Gas Rate (Input)</b>	15,200 - 199,000 BTU/h (4.5-58.3 kWh)
<b>Electrical</b>	Appliance: AC 120 Volts - 60 Hz Temperature Controller: DC 12 Volts
<b>Electrical Consumption</b>	Normal: 75 w Standby: 2 w Anti-frost protection: 146 w
<b>Amperage</b>	Max: 4A
<b>Ignition System</b>	Direct electronic ignition
<b>Hot Water Capacity</b>	Minimum flow rate: 0.26 GPM (1 l/min) Minimum activation flow rate: 0.4 GPM (1.5 l/min) Maximum flow rate: 9.8 GPM (37.1 l/min)
<b>Temperature</b>	Factory Default Range - 98° -120° F (37° - 49°C) Optional Range - 98° - 185° F (37° - 85°C)
<b>Temperature (without remote)</b>	120° F 49°C) (factory default) or 140° F (60°C)
<b>Approved Gas Types</b>	Natural or Propane (ensure unit matches gas type)
<b>Thermal Efficiency</b>	Natural Gas: 96% Propane: 96%
<b>Service Connections</b>	Gas supply: 3/4 inch (19mm) MNPT Cold water inlet: 3/4 inch (19mm) MNPT Hot water outlet: 3/4 inch (19mm) MNPT
<b>Isolation &amp; Pressure Relief Valves Included</b>	Isolation Valves are certified to NSF/ANSI 61 for potable water
<b>Water Flow Control</b>	Water flow sensor, electronic water control and by-pass control
<b>Minimum/Maximum Water Supply Pressure</b>	20 - 150 PSI (138-1035 KPa) ( recommended 60 - 80 PSI (414 - 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.*



**Controller**

MC-91-2US (included)

**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**

\* 24 inches (610mm) required for service

- Top of heater - 6 inches (152mm)
- Front of heater - 6 inches \*(152mm)
- Sides of heater - 2 inches (51mm)
- Back of heater - 0 inches
- Bottom of heater - 12 inches (305mm)
- From vent pipe - 0 inches

**Clearances from Non-combustibles**

\* 24 inches (610mm) required for service

- Top of heater - 2 inches (51mm)
- Front of heater - 6 inches \*(152mm)
- Sides of heater - 1/2 inches (13mm)
- Back of heater - 0 inches
- Bottom of heater - 12 inches (305mm)
- From vent pipe - 0 inches

**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 0.42" W.C. (1.1mbar)  
 Propane Gas: high fire 3.5" W.C. (8.7mbar) low fire 0.47" W.C. (1.2mbar)

**NOx**

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

**Venting**

- Ubbink Polypropylene Concentric Vent
  - Twin Pipe PVC/CPVC (3" and 4" configurations)
  - Centrotherm 3" Polypropylene (with Centrotherm Twin Pipe Adapter);
  - Common Vent Solutions
  - Room Air (Room air can be used only in commercial common vent applications where the exhaust terminates vertically)
- See installation and operation manual for more details.

**Limited Warranty**

Heat exchanger: 5years\*, 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.

