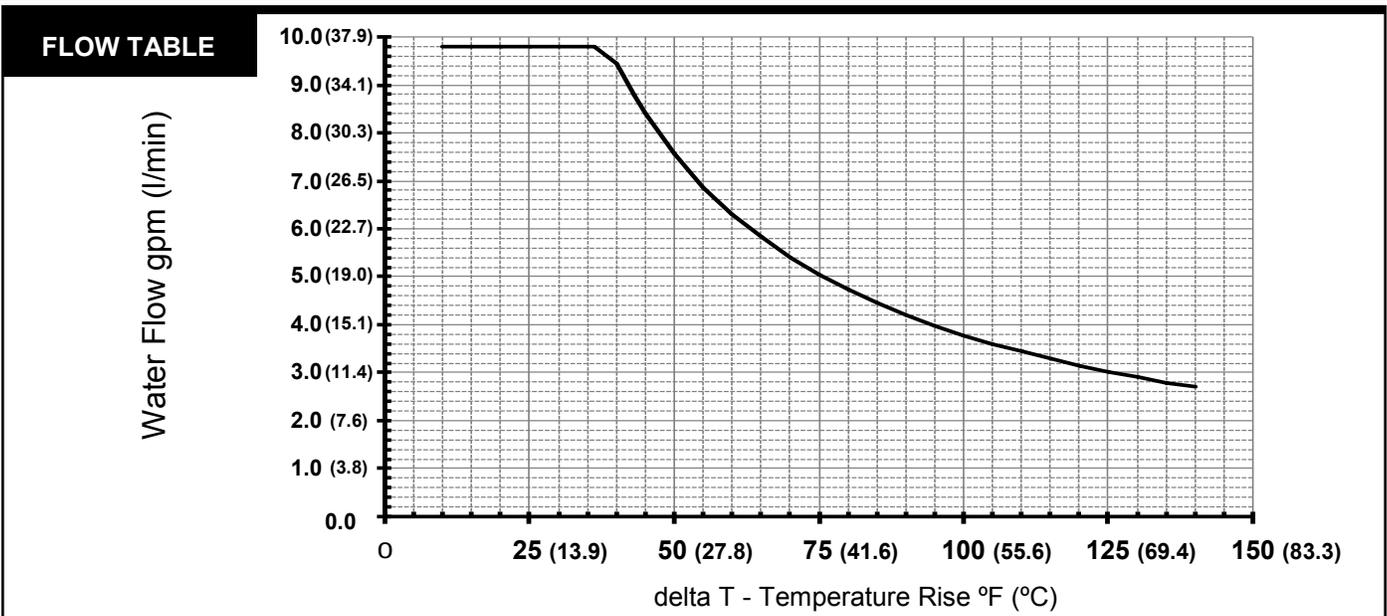


Type of Appliance	Condensing, Tankless, Temperature controlled, continuous flow, gas hot water system, Energy Star Qualified
Rinnai model number	REU-KBD3237FFUD-US
Operation / Installation	Forced combustion; indoor only; Certified for installation in Manufactured (Mobile) Homes
Minimum/Maximum Gas Rate (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: 64 w Standby: 2 w Anti-frost protection: 146 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 1.5 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	Heavy duty forged brass Webstone Isolator valves EXP E2, certified to NSF/ANSI 61-8 for potable water
Water Flow Control	Water flow sensor, electronic water control and by-pass control
Minimum/Maximum Water Supply Pressure	15 - 150 PSI (104-1035 KPa) (50 PSI (345 KPa) or above is recommended for maximum flow)

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 Controller

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

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)

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 (609.6mm) required for service

- Top of heater - 6 inches (152.4mm)
- Front of heater - 6 inches *(152.4mm)
- Sides of heater - 2 inches (50.8mm)
- Back of heater - 0 inches
- Bottom of heater - 12 inches (304.8mm)
- From vent pipe - 0 inches

Clearances from Non-combustibles

* 24 inches (609.6mm) required for service

- Top of heater - 2 inches (50.8mm)
- Front of heater - 6 inches *(152.4mm)
- Sides of heater - 1/2 inches (12.7mm)
- Back of heater - 0 inches
- Bottom of heater - 12 inches (304.8mm)
- 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

Direct Vent system designed for use with Ubbink Polypropylene Concentric Vent, Twin Pipe PVC/CPVC (3" and 4" configurations), or Centrotherm 3" Polypropylene (with Centrotherm Twin Pipe Adapter) *See installation and operation manual for details regarding installation and allowed vent lengths.*

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.

