

Rinnai®

TANKLESS WATER HEATERS

NEW RUC98 and 80 Venting Options

For PVC Installation



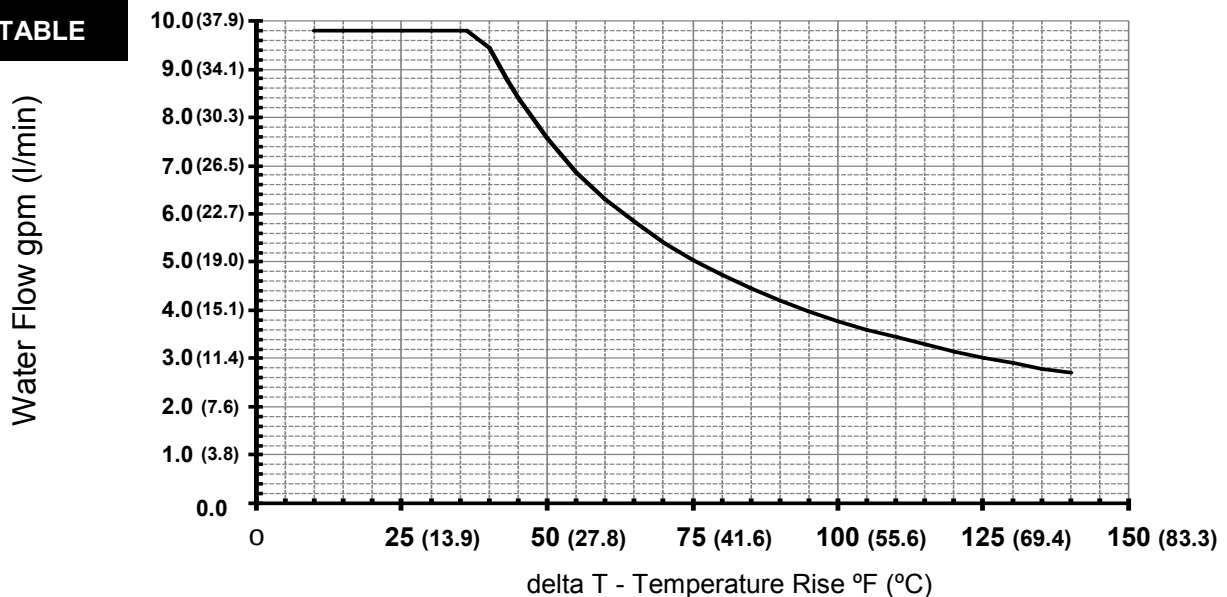
For Concentric PP Installation



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.

FLOW TABLE



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.

