

RUR98i (KBP3237FFUD)

Type of Appliance

Rinnai Model Number

Operation / Installation

Minimum/Maximum Gas Rate (Input)

Electrical

Electrical Consumption

Amperage

Ignition System

Hot Water Capacity

Temperature

Temperature (without remote)

Approved Gas Types

Uniform Energy Factor (UEF)

Service Connections

Isolation & Pressure Relief Valves Included

Water Flow Control

Minimum/Maximum Water Supply Pressure

Condensing Tankless Water Heater with Integrated Recirculation Pump. Energy Star Qualified

REU-KBP3237FFUD-US

Forced combustion; indoor only; Certified for installation in

Manufactured (Mobile) Homes

15,200 - 199,000 BTU/h (4.5-58.3 kWh)

Appliance: AC 120 Volts - 60 Hz

Temperature Controller: DC 12 Volts

Normal: 205 w Standby: 3 w Anti-frost Protection: 150 w

Max: 8A Fuse: 10A

Direct electronic ignition

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)

98° - 120° F (37°- 49°C) (factory default).

Maximum temperature is selectable at 120° F (49°C) or at 140° F (60°C)

120° F (49°C) (factory default) or 140° F (60°C)

Natural or Propane (ensure unit matches gas type)

0.92

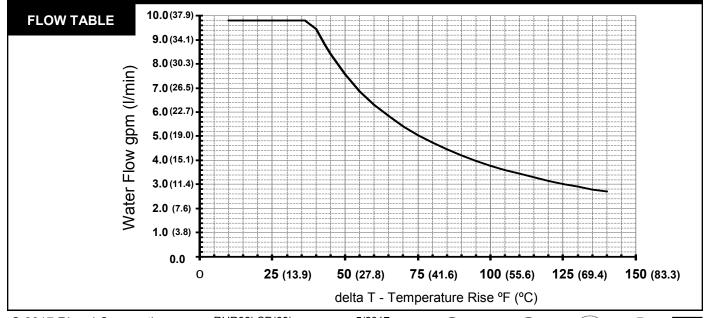
Gas supply: 3/4 inch (19mm) MNPT Cold water inlet: 3/4 inch (19mm) MNPT Hot water outlet: 3/4 inch (19mm) MNPT

Isolation Valves are certified to NSF/ANSI 61 for potable water

Water flow sensor, electronic water control and by-pass control

50 - 150 PSI (345-1035 KPa)

Recommended 60 - 80 PSI (414 - 552 KPa) for optimal performance



NSF/ANSI 372









Controller

Controller Cable Safety Devices

Clearances from Combustibles

* 24 inches (610mm) required for service

Clearances from Non-Combustibles

* 24 inches (610mm) required for service

Min/Max Gas Supply Pressure

Manifold Gas Pressure (inches W.C.)

NOx

Venting

MC-195T-US (included)-Pump Timer MC-91-2US (optional)

Non-polarized two-core cable, minimum 22 AWG

- Flame failure Flame Rod
- Boiling protection
- Combustion fan rpm check
- Over current glass fuse
- Top of heater 6 inches (152mm)
- Front of heater 6 inches* (152mm)
- Sides of heater 2 inches (51mm)
- Top of heater 2 inches (51mm)

- Sides of heater 1/2 inches (13mm) From vent pipe 0 inches

- Remaining flame (OHS)
- Thermal fuse
- Automatic frost protection
- · Back of heater 0 inches
- Bottom of heater 12 inches (305mm)
- From vent pipe 0 inches
- Back of heater 0 inches
- Front of heater 6 inches* (152mm) Bottom of heater 12 inches (305mm)

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)

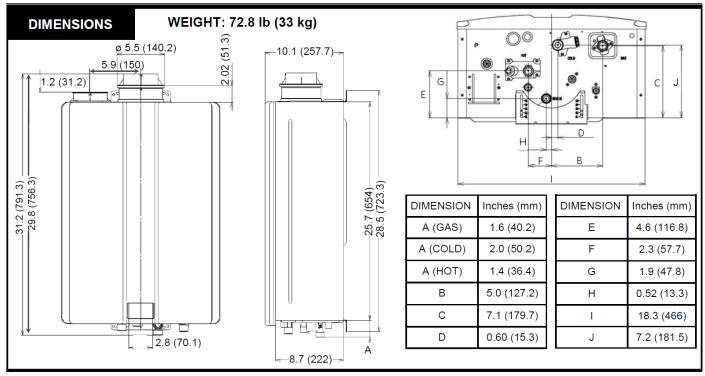
Natural Gas: High fire 3.0" W.C. (7.5mbar) low fire 0.42" W.C. (1.1mbar) Propane Gas: High fire 3.5" W.C. (8.7mbar) low fire 0.47" W.C. (1.2mbar)

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

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 Operations Manual for installation details and allowed vent lengths.

Heat exchanger: 12 years* for residential, 5 years* for commercial; All other parts: 5 years*; Labor: 1 year. There is no warranty coverage on product installed in any hydronic heating applications of any type. Refer to the Installation and Operations Manual for complete warranty information.

* Three (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.





Internal Recirculation Pump Control Internal Pump

Maximum Recirculation Pipe Lengths

Built-in Rinnai Circ-Logic™: Recirculation program cycles internal pump Integrated pump and bypass technology allow for recirculation through a dedicated return line or thermal bypass valve

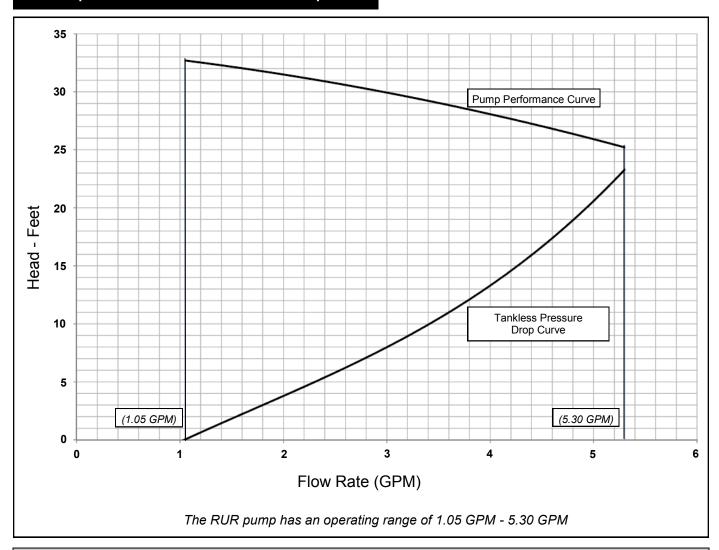
- 400 equivalent feet for 3/4" pipe diameter
- 100 equivalent feet for 1/2" pipe diameter

Take equivalent elbow lengths into consideration when calculating pipe length.

For dedicated return lines: Total length includes both hot water supply and dedicated return lines.

Cross-over mode: Total length includes both hot water supply and cold water piping length from the tankless water heater to the thermal bypass valve. Cross-over mode requires the use of a thermal bypass valve (included).

RUR Pump Performance and Unit Pressure Drop Curves



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.