

Type of Appliance

Condensing, Tankless, Temperature controlled, continuous flow, gas hot water system, Energy Star Qualified

Rinnai model number

REU-KCM2528FFU-US

Operation / Installation

Forced combustion; indoor only; Certified for installation in Manufactured (Mobile) Homes

Minimum/Maximum Gas Rate (Input)

10,300 - 160,000 BTU/h

Electrical

Appliance: AC 120 Volts - 60 Hz
Temperature Controller: DC 12 Volts

Electrical Consumption

Normal: 89 w Standby: 1.3 w Anti-frost protection: 167 w

Amperage

Max: 2.3A 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: 7.5 GPM (28.4 l/min)

Temperature (with remote)

120° - 140° F (49° - 60°C)

Temperature (without remote)

120° F (49°C), 125° F (49°C), 135° F (57°C), or 140° F (60°C)

Approved Gas Types

Natural or Propane (ensure unit matches gas type)

Energy Factor (EF)

Natural Gas: 0.93 Propane: 0.93

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

Water Flow Control

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

Minimum/Maximum Water Supply Pressure

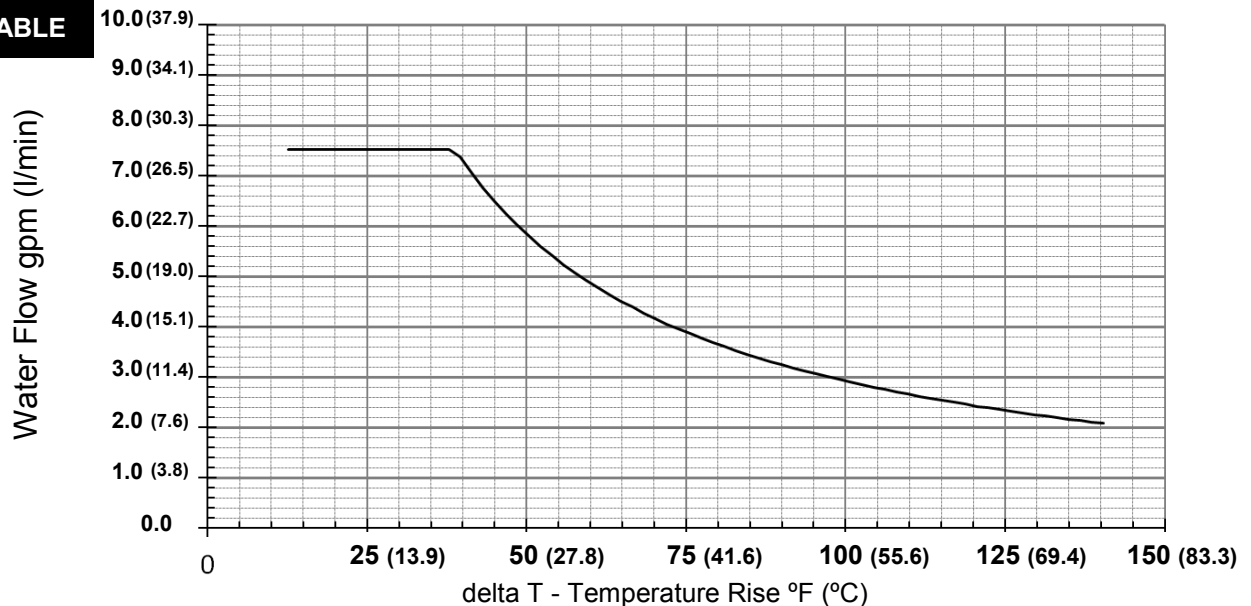
20 - 150 PSI (138-1035 KPa) (recommended 60 - 80 PSI (414 - 552 KPa) for optimal performance)

High Altitude Capability

Up to 5,400 ft (1646 m) elevation above sea level

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



Controller (Optional)

MC-91-2US (optional maximum of 4 can be installed)
Do not install MC-100V-1US or BC-100V-1US

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 3.37" W.C. (8.4mbar) low fire 1.00" W.C. (2.5mbar)
Propane Gas: high fire 3.75" W.C. (9.3mbar) low fire 1.08" W.C. (2.7mbar)

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, 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.

