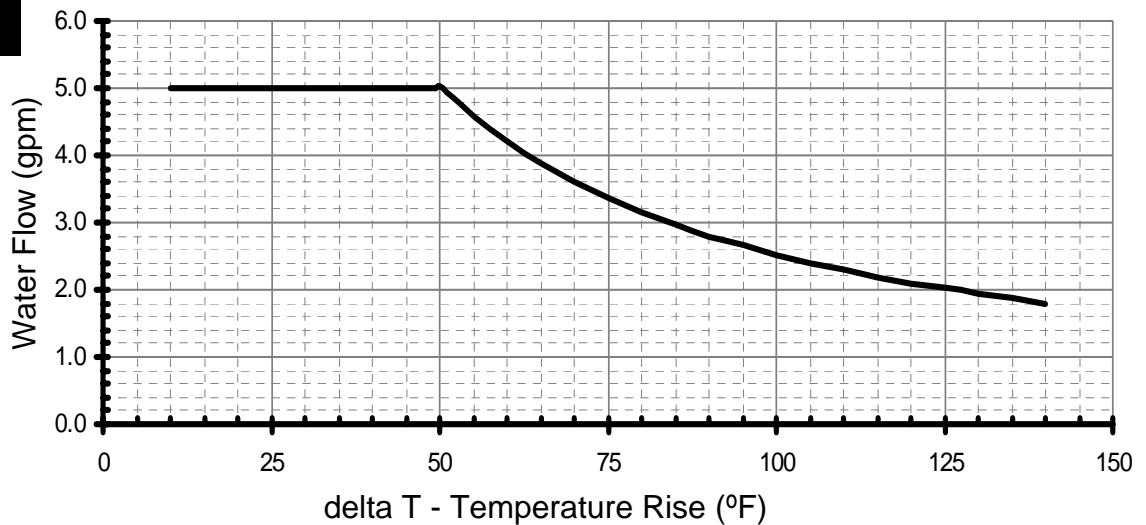


Type of Appliance	Temperature controlled, continuous flow, gas hot water system
Rinnai Model Number	REU-VA2019FFUD
Operation	With or without remote controls, mounted in kitchen, bathroom, etc.
Exhaust System	Direct vent, forced combustion
Minimum/Maximum Gas Rate (Input)	15,000 - 150,000 BTU/h (Natural Gas and Propane)
Electrical	Appliance: AC 120 Volts - 60 Hz Remote Control: DC 12 Volts
Electrical Consumption	Normal 53 watts Standby 2.0 watts Anti-frost protection 100 watts
Ignition System	Direct electronic ignition
Hot Water Capacity	0.6 to 5.0 GPM at a 35° F rise
Temperature	98° - 140° F (98° - 160° F available with the MCC-91 controller for commercial and hydronic applications)
Temperature (without remote)	120° F (factory default)
Approved Gas Types	Natural or Propane (ensure unit matches gas type)
Installation	Indoor only
Energy Factor	Natural Gas: 0.82 Propane: 0.82
Thermal Efficiency	Natural Gas: 84% Propane: 84%
Service Connections	Gas supply: 3/4 inch MNPT Cold water inlet: 3/4 inch MNPT Hot water outlet: 3/4 inch MNPT
Water Flow Control	Water flow sensor, electronic water control and by-pass control
Minimum/Maximum Water Supply Pressure	20 - 150 PSI (50 PSI or above is recommended for maximum flow)

FLOW TABLE



Water Temperature Control

Remote Controls

Simulation feed forward and feedback

MC-91-1US (included) }
 Deluxe controller: MC-100V-1US (optional) } 98° - 140° F
 Bathroom controller: BC-100V-1US (optional) }
 Wireless controller: MC-502RC-1US-MS (optional) }
 MCC-91-1US (for commercial applications) } 98° - 160° F

Remote Control 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 (3 amp)
- Remaining flame (OHS)
- Thermal fuse
- Automatic frost protection

Clearances from Combustibles (suitable for closet, attic, and crawl space installations)

- Top of heater - 6 inches
- Front of heater - 6 inches
- Sides of heater - 2 inches
- Back of heater - 0 inches
- Bottom of heater - 12 inches
- From vent pipe - 0 inches

Clearances from Non-combustibles

- Top of heater - 2 inches
- Front of heater - 6 inches
- Sides of heater - 1/2 inch
- Back of heater - 0 inches
- Bottom of heater - 12 inches
- From vent pipe - 0 inches

Min. / Max. Gas Supply Pressure

Natural Gas: min 5" W.C. max 10.5" W.C.
 Propane Gas: min 8" W.C. max 13.5" W.C.

Manifold Gas Pressure (inches W.C.)

Natural Gas: high fire 2.0" W.C. low fire 0.52" W.C.
 Propane Gas: high fire 3.2" W.C. low fire 0.92" W.C.

NOx

Meets California and Texas NOx Emission Rules

Warranty

Heat exchanger: 12 years* for residential and 5 years* for commercial and hydronic applications; (10 years* if used with the Rinnai Hydronic Air Handler); 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)

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.

