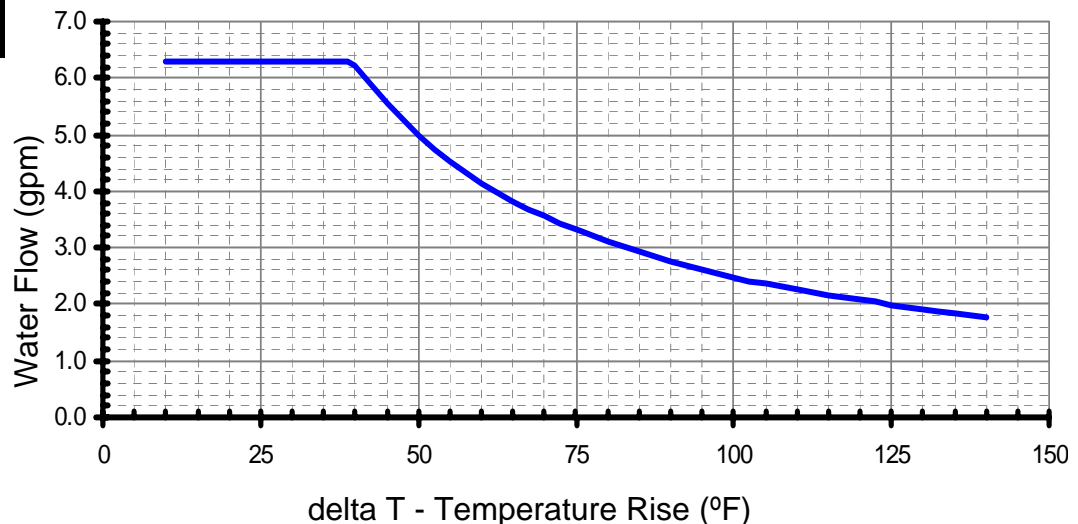


<b>Type of Appliance</b>	Temperature controlled, continuous flow, gas hot water system, Energy Star Qualified
<b>Rinnai Model Number</b>	REU-VA2024WD(A)-UC
<b>Operation</b>	Forced combustion
<b>Minimum/Maximum Gas Rate (Input)</b>	15,000 - 150,000 BTU/h
<b>Electrical</b>	Appliance: AC 120 Volts - 60 Hz Controller: DC 12 Volts
<b>Electrical Consumption</b>	Normal 45 watts Standby 2 watts Anti-frost protection 100 watts
<b>Ignition System</b>	Direct electronic ignition
<b>Hot Water Capacity</b>	0.6 to 6.3 GPM at a 35° F rise
<b>Temperature</b>	98° - 120° F (factory default) Maximum temperature is selectable at 120° F or at 140° F; 98° - 160° F available with the MCC-91 controller for commercial and hydronic applications
<b>Temperature (without remote)</b>	120° F (factory default)
<b>Approved Gas Types</b>	Natural or Propane (ensure unit matches gas type)
<b>Installation</b>	Outdoor only
<b>Energy Factor</b>	Natural Gas: 0.82 Propane: 0.82
<b>Thermal Efficiency</b>	Natural Gas: 83% Propane: 83%
<b>Service Connections</b>	Gas supply: 3/4 inch MNPT Cold water inlet: 3/4 inch MNPT Hot water outlet: 3/4 inch MNPT
<b>Water Flow Control</b>	Water flow sensor, electronic water control device and fixed by-pass
<b>Minimum/Maximum Water Supply Pressure</b>	20 - 150 PSI (30 - 80 PSI is recommended for maximum flow)

**FLOW TABLE**



### Water Temperature Control

#### Controllers

Simulation feed forward and feedback

MC-91-1US (included)  
 Deluxe controller: MC-100V-1US (optional)  
 Bathroom controller: BC-100V-1US (optional)  
 MCC-91-1US (for 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 (3 amp)
- Remaining flame (OHS)
- Thermal fuse
- Automatic frost protection

#### Clearances from Combustibles

- Top of heater - 12 inches
- Front (Panel) - 24 inches
- Front (Exhaust) - 24 inches
- Back of heater - 0 inches
- Bottom of heater - 12 inches
- Sides of heater - 6 inches

#### Clearances from Non-combustibles

\* 24 inches required for serviceability

- Top of heater - 2 inches
- Front (Panel) - 0 inches \*
- Front (Exhaust) - 24 inches
- Back of heater - 0 inches
- Bottom of heater - 2 inches
- Sides of heater - 1/8 inch

#### 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 0.56" W.C.  
 Propane Gas: high fire 3.0" W.C. low fire 0.88" 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.*

