

## R98LSeASME (VA3237W-ASME)



This model has been built in accordance with the requirements of the ASME Boiler and Pressure Vessel Code and has received the Certificate of Authorization from the National Board. The heat exchanger has the NB and the HLW stamps.

**Type of Appliance**

Temperature controlled, continuous flow, gas hot water system

**Rinnai model number**

REU-VA3237W-ASME

**Operation / Installation**

Forced combustion / Outdoor only

**Minimum/Maximum Gas Rate (Input)**

19,000 - 237,000 BTU/h (Natural Gas or Propane)

**Electrical**

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

**Electrical Consumption**

Normal 99 watts  
 Standby 2 watts  
 Anti-frost protection 116 watts

**Ignition System**

Direct electronic ignition

**Hot Water Capacity**

0.6 to 7.9 GPM (50° F rise)      0.9 to 9.8 GPM (35° F rise)

**Temperature**

98° - 140° F (98° - 185° 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)

**Thermal Efficiency**

Natural Gas: 83%      Propane: 83%

**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**

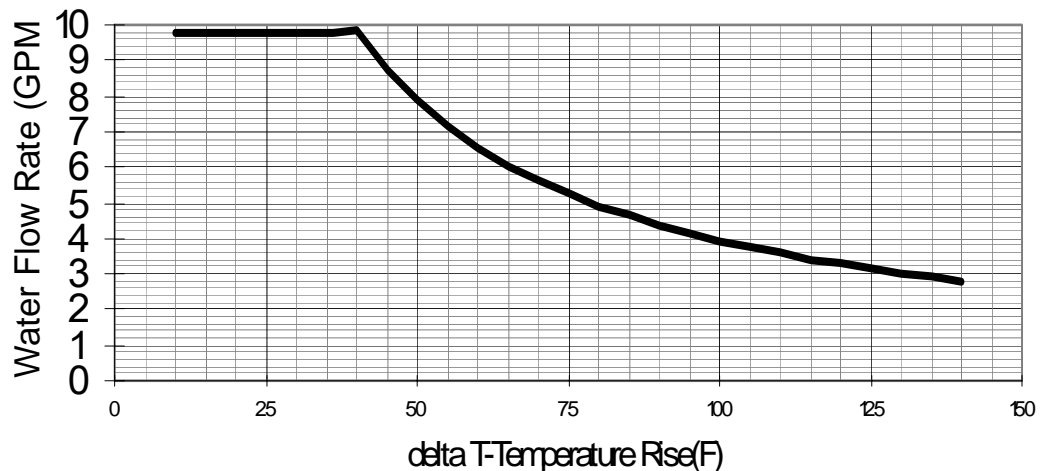
Water flow sensor, electronic water control and by-pass control

**Minimum/Maximum Water Supply Pressure**

15 - 150 PSI (50 PSI or above is recommended for maximum flow)

### FLOW TABLE

Water Flow Capacity Curve



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### Water Temperature Control

#### Controller

Simulation feed forward and feedback

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

98° - 140° F  
 98° - 185° F

#### 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 2.8" W.C. low fire 0.65" W.C.  
 Propane Gas: high fire 3.8" W.C. low fire 0.80" W.C.

#### NOx

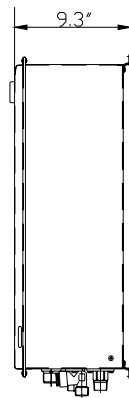
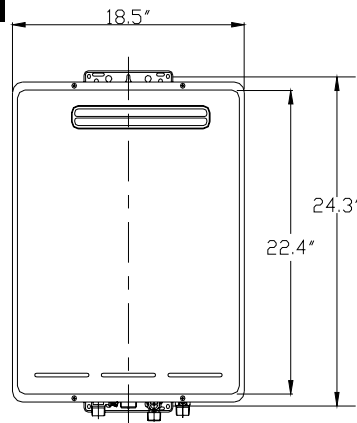
Meets California and Texas NOx Emission Rules

#### 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.*

### DIMENSIONS



### WEIGHT: 55 LBS

