

## RH180 Hybrid Tank-Tankless Water Heater

<b>Type of Appliance</b>	Automatic Circulating Tank Water Heater
<b>Rinnai Model Number</b>	RH180 (REU-VA1320WF-US)
<b>Operation / Exhaust System</b>	Fan assist / negative pressure
<b>Minimum/Maximum Gas Rate (Input)</b>	59,500 - 91,300 BTU/h (Natural Gas) 47,600 - 87,300 BTU/h (Propane)
<b>Applicable Altitude Range</b>	0 - 5400 ft (0 - 1646 m)
<b>Venting</b>	4" UL listed type B-vent
<b>Combustion Air</b>	Indoor
<b>First Hour Rating</b>	180 gallons / hour
<b>Storage Tank Volume</b>	40 gallons
<b>Recovery (90° Rise)</b>	89 gallons / hour
<b>Electrical</b>	AC 120 Volts - 60 Hz, supplied with 6 foot plug-in power cord
<b>Electrical Consumption</b>	Standby 3.0 watts Operation 150 watts
<b>Amperage Draw</b>	2 Amps
<b>Fuse</b>	5 Amp
<b>Noise Level</b>	50 dB
<b>Ignition System</b>	Direct electronic ignition
<b>Temperature Controller</b>	Integrated into front cover
<b>Temperature Settings</b>	110 °F (43 °C), 120 °F (49 °C), 130 °F (54 °C), 135 °F (57 °C), 140 °F (60 °C),
<b>Water Temperature Control</b>	Simulation feed forward and feedback
<b>Approved Gas Types</b>	Natural or Propane (ensure unit matches gas type)
<b>Installation</b>	Indoor only
<b>Thermal Efficiency Rating</b>	80%
<b>Service Connections</b>	Gas supply: 1/2 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 20 - 150 PSI (recommended 30-50 PSI for maximum performance)

*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.*

### Safety Devices

- Flame failure - Flame Rod
- Combustion fan rpm check
- Over current - glass fuse (5 amp)
- Remaining flame (OHS)
- Thermal fuse
- Boiling protection

### Clearances from Combustibles and Non-combustibles

- Top of heater - 12 inches
- Front of heater - 4 inches
- Sides of heater - 0 inches
- Back of heater - 0 inches
- Bottom of heater - 0 inches

### Min. / Max. Gas Supply Pressure

Natural Gas: min 4" 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 2.6" W.C. low fire 2.46" W.C.  
 Propane Gas: high fire 2.78" W.C. low fire 1.90" W.C.

### Warranty — Residential

**Reasonable labor:** 1 year **Parts:** 3 years **Heat Exchanger:** 10 years\*  
**Tank:** 6 years\* (see the manual for further details)

### Warranty — Commercial

**Reasonable labor:** 1 year **Parts:** 3 years **Heat Exchanger:** 5 years\*\*  
**Tank:** 1 years (see the manual for further details)

### Warranty — Combination Space Heating/ Domestic Hot Water

**Reasonable labor:** 1 year **Parts:** 3 years **Heat Exchanger:** 3 years  
**Tank:** 1 years (see the manual for further details)

\* 3 years on heat exchanger and 1 year on tank if used as a recirculating water heater within a hot water recirculation loop, when the water heater is in series with a recirculation system and all recirculating water flows through the water heater, and where an on-demand recirculation system is not incorporated.

\*\* 3 Years on heat exchanger for any commercial applications incorporating any type of recirculation.

Warranty years are based from date of purchase.

