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RH180 Hybrid Tank-Tankless Water Heater

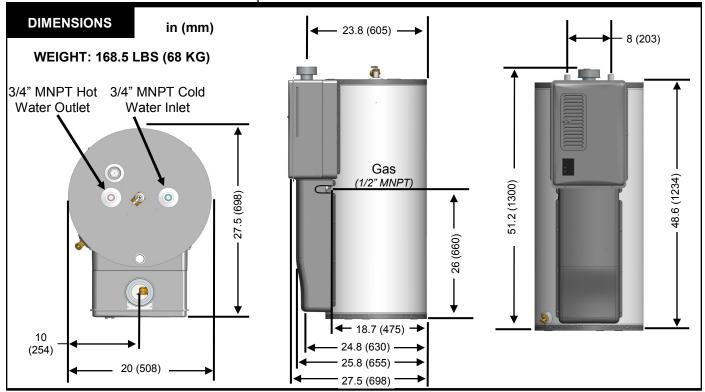
Type of Appliance	Automatic Circulating Tank Water Heater	
Rinnai Model Number	RH180 (REU-VA1320WF-US)	
Operation / Exhaust System	Fan assist / negative pressure	
Minimum/Maximum Gas Rate (Input)	59,500 - 91,300 BTU/h (Natural Gas) 47,600 - 87,300 BTU/h (Propane)	
Applicable Altitude Range	0 - 5400 ft (0 - 1646 m)	
Venting	4" UL listed type B-vent	
Combustion Air	Indoor	
First Hour Rating	180 gallons / hour	
Storage Tank Volume	40 gallons	
Recovery (100° Rise)	89 gallons / hour	
Electrical	AC 120 Volts - 60 Hz, supplied with 6 foot plug-in power cord	
Electrical Consumption	Standby3.0 wattsOperation150 watts	
Amperage Draw	2 Amps	
Fuse	5 Amp	
Noise Level	50 dB	
Ignition System	Direct electronic ignition	
Temperature Controller	Integrated into front cover 110 °F (43 °C), 120 °F (49 °C), 130 °F (54 °C), 135 °F (57 °C), 140 °F (60 °C),	
Temperature Settings		
Water Temperature Control	Simulation feed forward and feedback Natural or Propane (ensure unit matches gas type) Indoor only 80%	
Approved Gas Types		
Installation		
Thermal Efficiency Rating		
Service Connections	Gas supply: 1/2 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 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.



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Safety Devices	 Flame failure - Flame Rod Combustion fan rpm check Over current - glass fuse (5 amp) 	Remaining flame (OHS)Thermal fuseBoiling 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 inchesBottom of heater - 0 inches
Min. / Max. Gas Supply Pressure	Natural Gas: min 4" W.C. Propane Gas: min 8" W.C.	max 10.5" W.C. max 13.5" W.C.
Manifold Gas Pressure (inches W.C.)	Natural Gas: high fire 2.6" W.C. Propane Gas: high fire 2.78" 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 purchas	se.



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