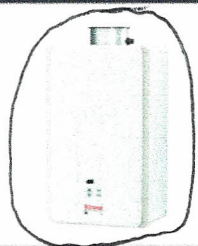






# TANKLESS WATER HEATERS MODEL CHART AND SPECIFICATIONS.

	Value Series				
					
<b>Model</b>	V5i	V5e	V65i	V65e	V53e
<b>Dimensions - w, h, d Inches (mm)</b>	14 x 23 x 9 (355.6 x 584.2 x 228.6)	14 x 23 x 9 (355.6 x 584.2 x 228.6)	14 x 23 x 9 (355.6 x 584.2 x 228.6)	14 x 23 x 9 (355.6 x 584.2 x 228.6)	14 x 21 x 7 (355.6 x 533.4 x 177.8)
<b>Weight (lbs / kg)</b>	45.6 / 20.7	43.6 / 19.8	45.6 / 20.7	43.9 / 19.8	34 / 15.4
<b>Installation Type</b>	Indoor	Outdoor	Indoor	Outdoor	Outdoor
<b>Min./Max. BTU (natural gas)</b>	10,300/180,000	10,300/180,000	10,300/150,000	10,300/150,000	19,000/120,000
<b>Min./Max. BTU (propane)</b>	10,300/180,000	10,300/180,000	10,300/150,000	10,300/150,000	20,200/120,000
<b>Energy Factor</b>	0.82	0.82	0.82	0.82	0.82
<b>Temp. Range Residential</b>	98°–140° F (37°–60° C)	98°–140° F (37°–60° C)	98°–140° F (37°–60° C)	98°–140° F (37°–60° C)	120°–140° F (49°–60° C)
<b>Temp. Range Commercial</b>	Residential Only				
<b>Min. Activation Rate</b>	0.4 gpm (1.5 lpm)	0.4 gpm (1.5 lpm)	0.4 gpm (1.5 lpm)	0.4 gpm (1.5 lpm)	0.6 gpm (2.3 lpm)
<b>Flow Rate (70° / 50° Temp. Rise)</b>	4.3 / 6.0 gpm (16.3 / 22.7 lpm)	4.3 / 6.0 gpm (16.3 / 22.7 lpm)	3.6 / 5.0 gpm (13.6 / 18.9 lpm)	3.6 / 5.0 gpm (13.6 / 18.9 lpm)	2.8 / 4.0 gpm (10.6 / 15.1 lpm)
<b>Hot Water Flow Rate Range</b>	0.26–7.5 gpm (0.98–28.4 lpm)	0.26–7.5 gpm (0.98–28.4 lpm)	0.26–6.5 gpm (0.98–24.6 lpm)	0.26–6.5 gpm (0.98–24.6 lpm)	0.60–5.3 gpm (0.98–20.1 lpm)
<b>Controller (standard)</b>	MC-91-2US	MC-91-2US	MC-91-2US	MC-91-2US	Status Monitor
<b>Controllers (optional)</b>	MC-100-1, BC-100V-1				MC-91-2US
<b>Ultra Low NOx</b>	yes	yes	yes	yes	no
<b>Warranty (Residential)*</b>	Limited 10-year on heat exchanger, 5-year on parts, 1-year on labor				
<b>Warranty (Commercial)*</b>	Residential Only				
<b>Mobile Home Certified</b>	yes	yes	yes	yes	yes
<b>Valves Shipped in Box</b>	no	no	no	no	no
<b>High Altitude Approved</b>	Up to 10,200 ft. (3,109 m)				
<b>Certifications</b>	AHRI and CSA				
<b>Venting Options</b>	Concentric	N/A	Concentric	N/A	N/A
<b>TRS Compatible</b>	no	no	no	no	no
<b>½" Gas Line Compatible**</b>	yes	yes	yes	yes	yes

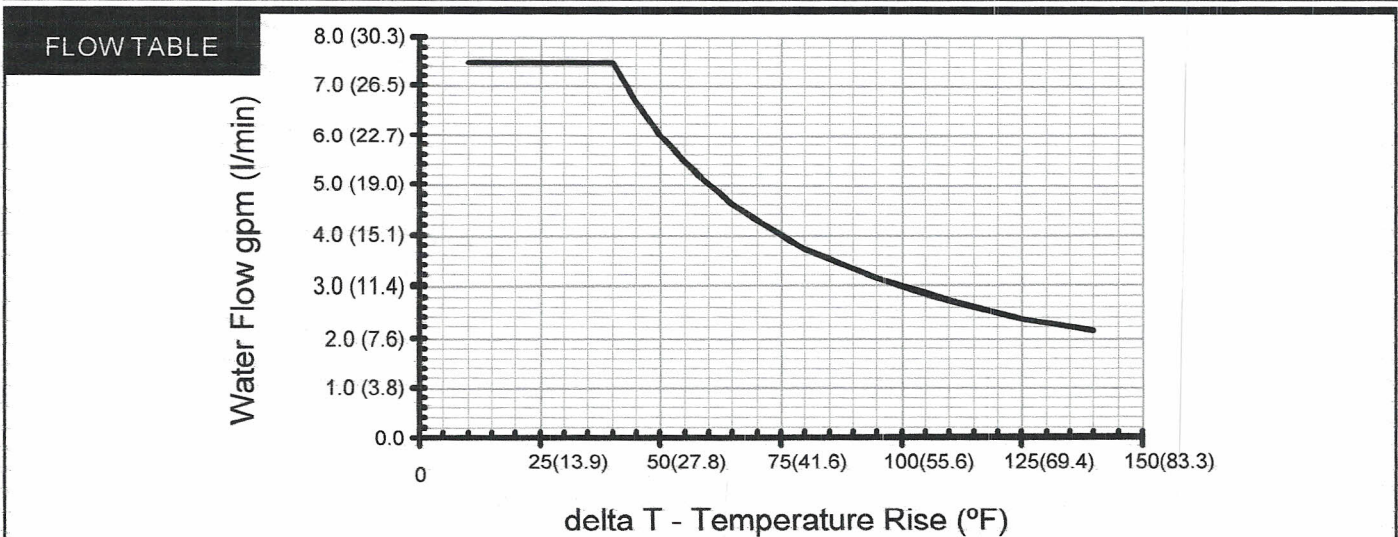
\* For complete information and details regarding Rinnai's warranty, visit [rinnai.us](http://rinnai.us).

\*\* For complete information on gas sizing for Rinnai Tankless Water Heaters, consult the Operation and Installation Manual.



Type of Appliance	<input type="checkbox"/> Temperature controlled, continuous flow, gas hot water system <input type="checkbox"/> Certified for installation in manufactured (mobile) homes <input type="checkbox"/> Forced combustion / Direct vent
Rinnai Model Number	REU-VC2528FFU-US
Operation / Installation	Forced combustion; indoor only
Minimum/Maximum Gas Rate (Input)	10,300 - 180,000 BTU/h
Electrical	Appliance: AC 120 Volts - 60 Hz Controller: DC 12 Volts
Electrical Consumption	Normal: 76 w Standby: 2 w Anti-frost protection: 120 w
Amperage	Max: 4A Fuse: 10A
Ignition System	Direct electronic ignition
Hot Water Capacity	Minimum flow rate: 0.26 GPM (1 l/min) Minimum activation flow rate: 0.4 GPM (1.5 l/min) Maximum flow rate: 7.5 GPM (28.4 l/min)
Temperature	98° - 120° F (37° - 49° C) (factory default) Maximum temperature is selectable at 120° F(49° C) or at 140° F(60° C); 98° - 160° F(37° - 71° C) available with MCC-91-2 controller for hydronic applications
Temperature (without remote)	120° F (49° C) (factory default) or 140° F (60° C)
Installation	Indoor only
Energy Factor	Natural Gas: 0.82 Propane: 0.82
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 device and fixed by-pass
Minimum/Maximum Water Supply Pressure	20 - 150 PSI (138-1035 KPa) (recommended 30-80 PSI (209 - 552 KPa) for optimal 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.



Water Temperature Control  
Controller

Controller Cable  
Safety Devices

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

Clearances from Non-combustibles  
\* 24 inches required for serviceability

Min. / Max. Gas Supply Pressure

Manifold Gas Pressure  
(inches W.C.)

NOx

Simulation feed forward and feedback

MC-91-2US (part of the front panel)  
Deluxe controller: MC-100V-1US (optional)  
Bathroom controller: BC-100V-1US (optional)  
MCC-91-2US (optional; for hydronic applications)

Non-polarized two-core cable, minimum 22 AWG

- |   |   |
|---|---|
| <input type="checkbox"/> Flame failure - Flame Rod          | <input type="checkbox"/> Remaining flame (OHS)              |
| <input type="checkbox"/> Boiling protection                 | <input type="checkbox"/> Thermal fuse                       |
| <input type="checkbox"/> Combustion fan rpm check           | <input type="checkbox"/> Automatic frost protection         |
| <input type="checkbox"/> Over current - glass fuse          |   |
| <input type="checkbox"/> Top of heater - 6 inches(152mm)    | <input type="checkbox"/> Back of heater - 0 inches          |
| <input type="checkbox"/> Front of heater - 6 inches(152mm)* | <input type="checkbox"/> Ground / bottom - 12 inches(305mm) |
| <input type="checkbox"/> Sides of heater - 2 inches(51mm)   | <input type="checkbox"/> From vent pipe - 0 inches          |
| <input type="checkbox"/> Top of heater - 2 inches(51mm)     | <input type="checkbox"/> Back of heater - 0 inches          |
| <input type="checkbox"/> Front of heater - 6 inches(152mm)* | <input type="checkbox"/> Ground / bottom - 12 inches(305mm) |
| <input type="checkbox"/> Sides of heater - 1/2 inch(13mm)   | <input type="checkbox"/> From vent pipe - 0 inches          |

Natural Gas: min 4" W.C. (10mbar) max 10.5" W.C. (26.1mbar)  
Propane Gas: min 8" W.C. (20mbar) max 13.5" W.C. (33.6mbar)

Natural Gas: high fire 2.2" W.C. (5.5mbar) low fire 0.61" W.C. (1.5mbar)  
Propane Gas: high fire 3.8" W.C. (9.5mbar) low fire 0.87" W.C. (2.2mbar)

Complies with South Coast Air Quality Management District 14 ng/J or 20 ppm NOx emission levels

Limited  
Warranty

Heat exchanger: 10 years\* for residential and hydronic applications, increased to 12 years\* if installed with an isolation valve kit; All other parts: 5 years\*; Labor: 1 year  
(\* reduced to 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)  
Refer to the manual for complete warranty information.

