

## RESIDENTIAL



### EASE OF INSTALLATION AND SERVICEABILITY

- Compact Design to Save Space
- Wi-Fi Technology for Remote Monitoring and Management
- Simple Gas Conversion

### OPTIONAL ACCESSORIES

Condensate Neutralizer, ScaleCutter, Additional Controllers, Recess Box, Pipe Cover, EZConnect™ Cables, Control-R™ Wi-Fi Module, Wireless Accessories, and many more.

Visit [rinnai.us](http://rinnai.us) for a complete list of accessories.

#### SUPER-HIGH-EFFICIENCY (CONDENSING) TANKLESS WATER HEATER

<b>Installation Type</b>	External (Outdoor) Residential Applications; Certified for installation in Manufactured (Mobile) Homes
<b>Model Number</b>	RUS65e (REU-KCM2025W-US)
<b>Approved Gas Types</b>	Natural and Propane
<b>High Altitude Approved</b>	Up to 5,400 ft. (1,646 m)
<b>Water Flow Control</b>	Water Flow Sensor, Electronic Water Control and Fixed Bypass Control
<b>Uniform Energy Factor (UEF)</b>	0.86
<b>Energy Factor (For Canada)</b>	0.93
<b>Controller</b>	Standard: Status Monitor Optional: MC-91-2US, Control-R™ Wi-Fi Module Do not install MC-100V-1US or BC-100V-1US
<b>Certifications</b>	AHRI, ANSI Z21.10.3, and CSA 4.3

#### Warranty

- Heat Exchanger: 12 years\* for residential
  - All Other Parts and Components: 5 Years\*
  - Reasonable Labor: 1 Year
- \* 3 years if used as a circulation 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, and where an aquastat/thermostat, timer, or an on-demand recirculation system is not incorporated. Refer to the Tankless Water Heater Installation and Operation manual for complete warranty information.

#### Safety Devices

Flame Failure - Flame Rod, Boiling Protection, Combustion Fan RPM Check, Over Current - Glass Fuse, Remaining Flame (OHS), Thermal Fuse and Automatic Frost Protection

#### Included with Purchase

Tankless Water Heater and Self-Tapping Screws (x2)

#### Additional Features

- Complies with South Coast Air Quality Management District 14 ng/J or 20 ppm NOx Emission Levels
- Ultra Low NOx
- Wi-Fi Capable
- 1/2 in. (13 mm) Gas Line Compatible



CERTIFIED TO ANSI Z21.10.3 — CSA 4.3

## TECHNICAL SPECIFICATIONS

SPECIFICATION		RUS65e
Dimensions - w, h, d		18.3 in. x 28.4 in. x 10.1 in. (466 mm x 721.4 mm x 257 mm)
Minimum Gas Consumption Btu/h		10,300
Maximum Gas Consumption Btu/h		130,000
Flow Rate <sup>1</sup> (Min - Max)		0.26 - 6.5 GPM (1.0 - 24.6 L/min)
Weight		57.3 lbs. (26kg.)
Sound Level		55 dB
Electrical	Normal	61 W
	Standby	1.3 W
	Freeze Protection	140 W
	Max Current	2.3 Amps
	Fuse	10 Amps
Temperature (with remote)		120° - 140° F (49°C - 60°C)
Temperature (without remote)		120° F (49°C), 125° F (52°C), 135° F (57°C), or 140° F (60°C)
Gas Supply Pressure <sup>2</sup>		<ul style="list-style-type: none"> <li>Natural: 4 in. w.c. - 10.5 in. w.c. (2.5 mbar – 26.1 mbar)</li> <li>Propane: 8 in. w.c. - 13.5 in. w.c. (20 mbar – 33.6 mbar)</li> </ul>
Ignition System		Direct Electronic Ignition
Electronic Connections		<ul style="list-style-type: none"> <li>Appliance: AC 120 Volts, 60Hz.</li> <li>Temperature Controller: DC 12 Volts (Digital)</li> </ul>
Water Supply Pressure		<ul style="list-style-type: none"> <li>Minimum: 50 PSI (Recommended 60-80 PSI for max performance)</li> <li>Maximum: 150 PSI</li> </ul>
Controller Cable		Non-Polarized Two Core Cable (Minimum 22 AWG)
Service Connections		<ul style="list-style-type: none"> <li>Gas Supply: 3/4 in. (19 mm) NPT</li> <li>Cold Water Inlet: 3/4 in. (19 mm) NPT</li> <li>Hot Water Outlet: 3/4 in. (19 mm) NPT</li> <li>Condensate Drain: 1/2 in. (13 mm) NPT</li> </ul>
Clearances from Combustibles		<ul style="list-style-type: none"> <li>Top: 12 in. (305 mm)</li> <li>Bottom/Ground: 12 in. (305 mm)</li> <li>Front (Panel): 24 in. (610 mm)</li> <li>Back: 0 in.</li> <li>Sides: 6 in. (152 mm)</li> <li>Front (Exhaust): 24 in. (610 mm)</li> </ul>
Clearances from Non-Combustibles		<ul style="list-style-type: none"> <li>Top: 2 in. (51 mm)</li> <li>Bottom/Ground: 2 in. (51 mm)</li> <li>Front (Panel): 0 in.*</li> <li>Back: 0 in.</li> <li>Sides: 1/8 in. (3.2 mm)</li> <li>Front (Exhaust): 24 in. (610mm)</li> </ul>

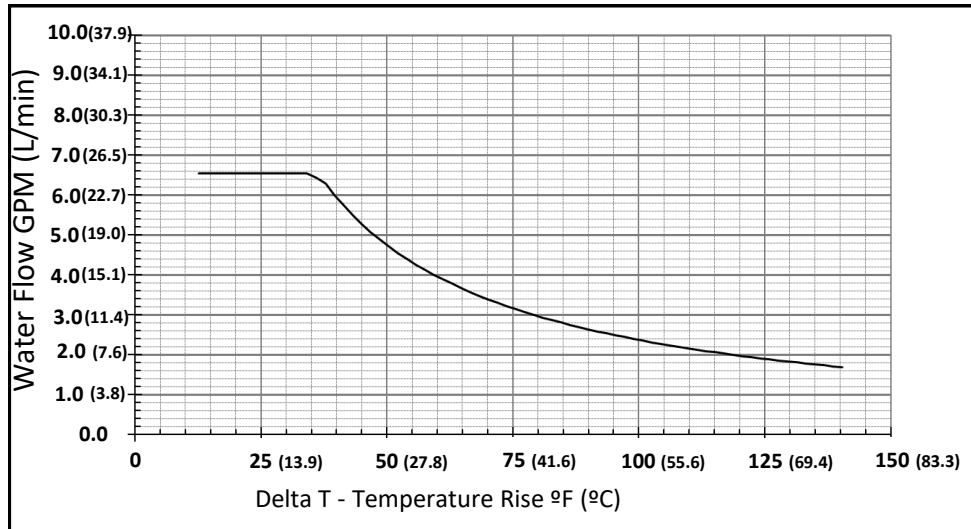
\* Clearance for servicing is 24 in. (610 mm) in front of water heater

<sup>1</sup> Minimum flow may vary slightly depending on the temperature setting and the inlet water temperature.

Minimum activation flow is 0.4 GPM (1.5 L/min).

<sup>2</sup> The maximum gas supply pressure must not exceed the value specified by the manufacturer.

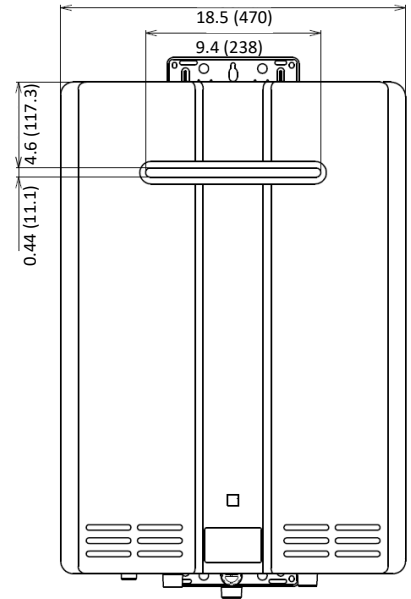
## WATER FLOW CURVE



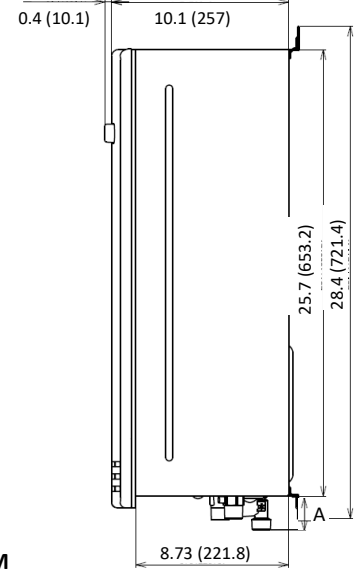
## DIMENSIONS

in. (mm)

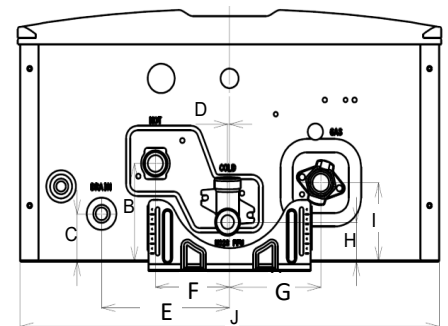
### FRONT



### SIDE



### BOTTOM



DIM	Inches (mm)	DIM	Inches (mm)
A (GAS)	1.3 (33.2)	D	0.09 (2.2)
A (COLD)	1.93 (49)	E	5.6 (142.3)
A (HOT)	1.35 (34.4)	F	3.24 (82.4)
A (CONDENSATE OUTLET)	0.94 (23.9)	G	3.99 (101.4)
B	3.93 (100)	H	1.58 (40.1)
C	1.91 (48.6)	I	3.17 (80.4)
		J	18.3 (466)