



RUS65e (REU-KCM2025W-US)

EXTERNAL (OUTDOOR) CONDENSING TANKLESS WATER HEATER

RESIDENTIAL



EASE OF INSTALLATION AND SERVICEABILITY

- Compact Design to Save Space
- Simple Gas Conversion

OPTIONAL ACCESSORIES

Condensate Neutralizer, ScaleCutter, Additional Controllers, Recess Box, Pipe Cover, EZConnect™ Cables, Wireless Accessories, and many more.

Visit rinnai.us for a complete list of accessories.

SUPER HIGH-EFFICIENCY (CONDENSING) TANKLESS WATER HEATER

| | |
|------------------------------------|--|
| Installation Type | External (Outdoor) Residential Applications; Certified for installation in Manufactured (Mobile) Homes |
| Model Number | RUS65e (REU-KCM2025W-US) |
| Approved Gas Types | Natural and Propane |
| High Altitude Approved | Up to 5,400 ft. (1,646 m) |
| Water Flow Control | Water Flow Sensor, Electronic Water Control and Fixed Bypass Control |
| Uniform Energy Factor (UEF) | 0.86 |
| Energy Factor (For Canada) | 0.93 |
| Controller | <ul style="list-style-type: none"> • Standard: Status Monitor • Optional: MC-91-2US • Do not install MC-100V-1US, BC-100V-1US, or Control-R™ Wi-Fi Module |

Certifications AHRI, ANSI Z21.10.3, and CSA 4.3

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
- 1/2 in. (13 mm) Gas Line Compatible



CERTIFIED TO ANSI Z21.10.3 – CSA 4.3

TECHNICAL SPECIFICATIONS

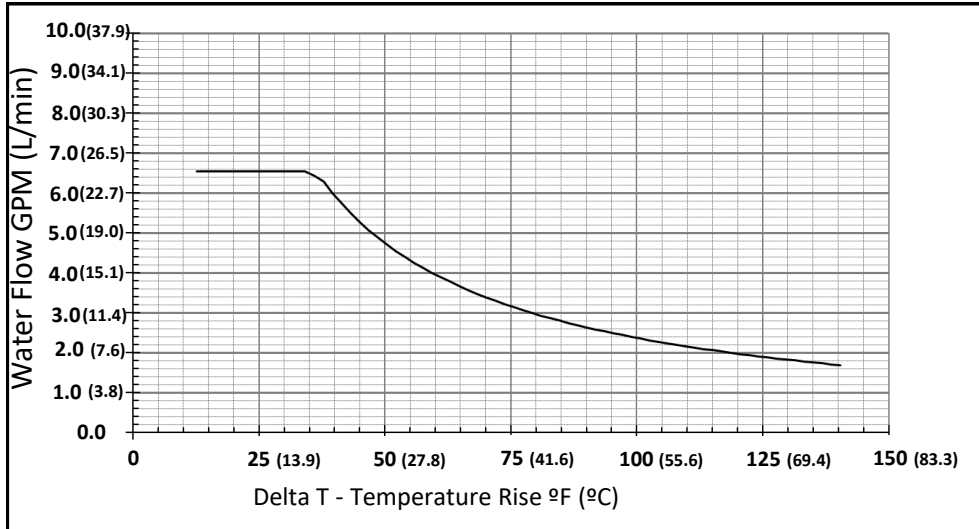
| SPECIFICATION | | RUS65e |
|------------------------------------|-------------------|--|
| Dimensions - w, h, d | | 18.3 in. x 28.4 in. x 10.1 in. (466 mm x 721.4 mm x 257 mm) |
| Minimum Gas Consumption Btu/h | | 10,300 |
| Maximum Gas Consumption Btu/h | | 130,000 |
| Flow Rate ¹ (Min - Max) | | 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°F - 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 ² | | <ul style="list-style-type: none"> Natural: 4 in. w.c. - 10.5 in. w.c. (2.5 mbar - 26.1 mbar) Propane: 8 in. w.c. - 13.5 in. w.c. (20 mbar - 33.6 mbar) |
| Ignition System | | Direct Electronic Ignition |
| Electronic Connections | | <ul style="list-style-type: none"> Appliance: AC 120 Volts, 60Hz Temperature Controller: DC 12 Volts (Digital) |
| Water Supply Pressure | | <ul style="list-style-type: none"> Minimum: 50 PSI (Recommended 60-80 PSI for max performance) Maximum: 150 PSI |
| Controller Cable | | Non-Polarized Two Core Cable (Minimum 22 AWG) |
| Service Connections | | <ul style="list-style-type: none"> Gas Supply: 3/4 in. NPT Cold Water Inlet: 3/4 in. NPT Hot Water Outlet: 3/4 in. NPT Condensate Drain: 1/2 in. NPT |
| Clearances from Combustibles | | <ul style="list-style-type: none"> Top: 12 in. (305 mm) Bottom/Ground: 12 in. (305 mm) Front (Panel): 24 in. (610 mm) Back: 0 in. Sides: 6 in. (152 mm) Front (Exhaust): 24 in. (610 mm) |
| Clearances from Non-Combustibles | | <ul style="list-style-type: none"> Top: 2 in. (51 mm) Bottom/Ground: 2 in. (51 mm) Front (Panel): 0 in.* Back: 0 in. Sides: 1/8 in. (3.2 mm) Front (Exhaust): 24 in. (610mm) |

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

¹ 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).

² The maximum gas supply pressure must stay within the ranges listed above.

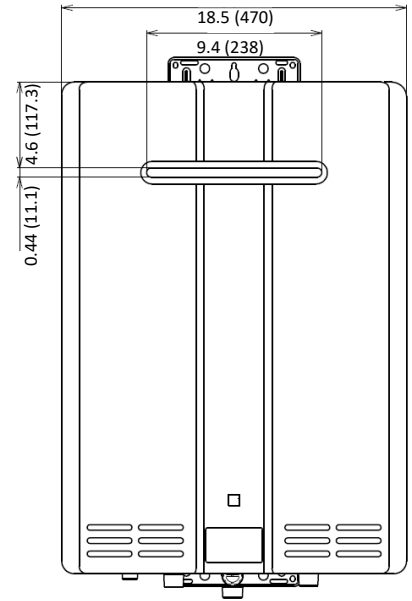
WATER FLOW CURVE



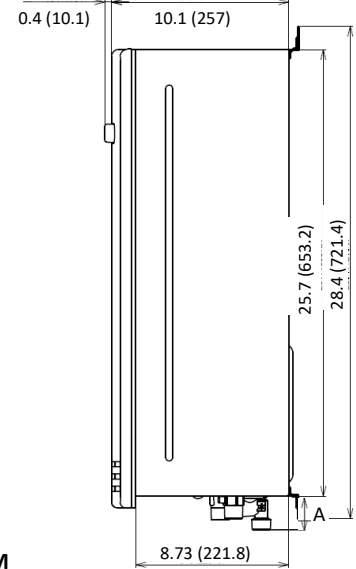
DIMENSIONS

in. (mm)

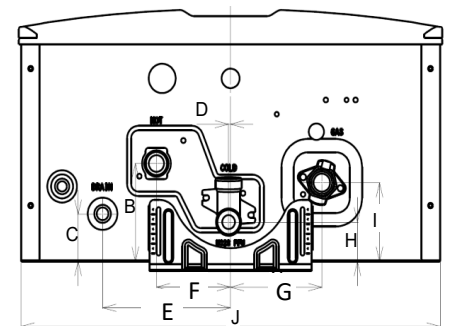
FRONT



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) |