



■ EASE OF INSTALLATION AND SERVICEABILITY


- Compact Design to Save Space
- Wi-Fi Technology for Remote Monitoring, Management and Recirculation Control.
- Improved Gas Conversion

■ OPTIONAL ACCESSORIES

Condensate Neutralizer, ScaleCutter, Additional Controllers, Pipe Cover, EZConnect™ Cables, control•r™ Wi-Fi Module, External Recirculation Pump, Wireless Accessories, and many more.

Visit rinnai.us for a complete list of accessories.

HIGH-EFFICIENCY (NON-CONDENSING) TANKLESS WATER HEATER

Installation Type	External (Outdoor) Residential Applications. Manufactured (Mobile) Home Certified	
Model Numbers	RE199e (REU-VE2737WD-US) RE180e (REU-VE2432WD-US) RE160e (REU-VE2125WD-US) RE140e (REU-VE1720WD-US)	
Approved Gas Types	Natural and Propane	
Efficiency		UEF: 0.82 (RE199e, RE180e) 0.81 (RE160e, RE140e)
High Altitude Approved	Up to 10,200 ft (3,109 m)	
Water Flow Control	Water Flow Sensor, Electronic Water Control and Bypass Control (RE199/RE180 only)	
Controller	Standard: Integrated Controller Optional: MC-195T-US, RWM101 (control•r™), MC601, MCC601 (RE199/RE180)	
Certifications	AHRI, ANSI Z21.10.3, CSA 4.3	

Warranty

- Heat Exchanger: 15 years or 12,000 operation hours, whichever occurs first
- All Other Parts and Components: 5 Years
- Reasonable Labor: 1 Year

Safety Devices

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

Additional Features

- Mobile Home Certified
- Complies with South Coast Air Quality Management District 14 ng/J or 20 ppm NOx Emission Levels
- Ultra Low NOx



CERTIFIED TO ANSI Z21.10.3 — CSA 4.3

TECHNICAL SPECIFICATIONS

SPECIFICATION		RE199e	RE180e	RE160e	RE140e
Dimensions - w, h, d		14.05 in. x 24.64 in. x 11.7 in. (357 mm x 626 mm x 297 mm)			
Minimum Gas Consumption Btu/h		10,400			
Maximum Gas Consumption Btu/h		199,000	180,000	160,000	140,000
Flow Rate ¹ (Min - Max)		0.13 - 9.8 GPM (0.5 - 37 L/min)	0.13 - 8.5 GPM (0.5 - 32 L/min)	0.26 - 6.6 GPM (1.0 - 25 L/min)	0.26 - 5.3 GPM (1.0 - 20 L/min)
Max Flow Rate with Parameter Adjustment		9.8 GPM (37 L/min)	8.5 GPM (32 L/min)	6.6 GPM (25 L/min)	5.3 GPM (20 L/min)
Activation Flow Rate		0.4 GPM (1.5 L/min) ²		0.4 GPM (1.5 L/min)	
Weight		42.1 lb (19.1 kg)		38.3 lb (17.4 kg)	
Sound Level		54 dB			
Electrical	Normal	74 W	61 W	60 W	52 W
	Standby	1 W			
	Freeze Protection	100 W			
	Max Current	4 Amps			
	Fuse	10 Amps			
Temperature		98°F-140°F (37°C-60°C)		120°F-140°F (49°C-60°C)	
By-Pass Flow Control		Bypass Servo Control		Fixed Bypass	
Gas Supply Pressure ³		<ul style="list-style-type: none"> Natural: 4.0 in. w.c. - 10.5 in. w.c. Propane: 8.0 in. w.c. - 13.0 in. w.c. 			
Ignition System		Direct Electronic Ignition			
Electronic Connections		• Appliance: AC 120 Volts, 60Hz.			
Water Supply Pressure		<ul style="list-style-type: none"> Minimum: 20 PSI (Recommended 30-80 PSI for max performance) Maximum: 150 PSI 			
Service Connections		<ul style="list-style-type: none"> Gas Supply: 3/4 in. (19 mm) NPT Cold Water Inlet: 3/4 in. (19 mm) NPT Hot Water Outlet: 3/4 in. (19 mm) NPT 			
Clearances		<ul style="list-style-type: none"> Top: 2 in. (51 mm) Bottom/Ground: 12 in. (305mm)* Front: 0 in.** Back: 0 in. Sides: 2 in. (51 mm) Vent: 0 in. 			

** Do not install this water heater under an overhang less than 3 ft. (91.4 cm) from its top. The area under the overhang must be open 3 sides.

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

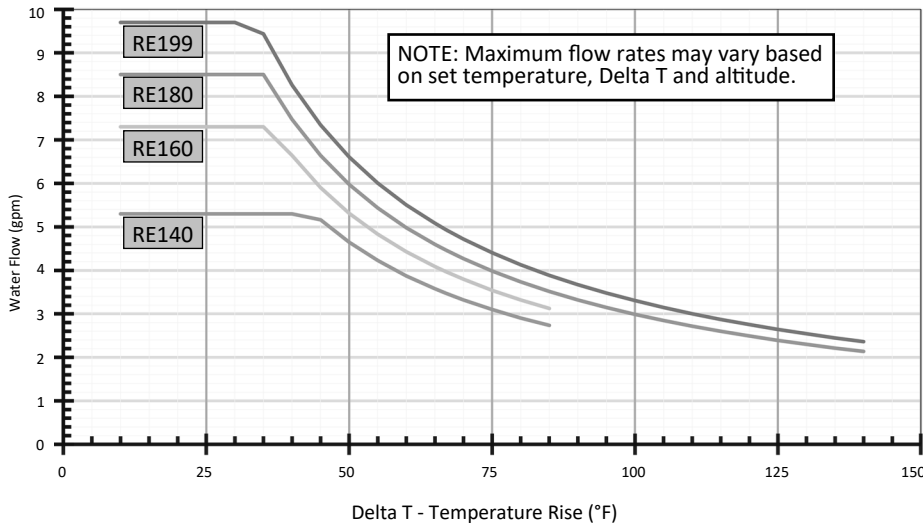
¹ Minimum flow may vary slightly depending on the temperature setting and the inlet water temperature.

² Minimum activation flow is 0.4 GPM (1.5 L/min).

³ 0.26 GPM activation at set temperature of ≥140°F.

³ The maximum gas supply pressure must not exceed the specified value.

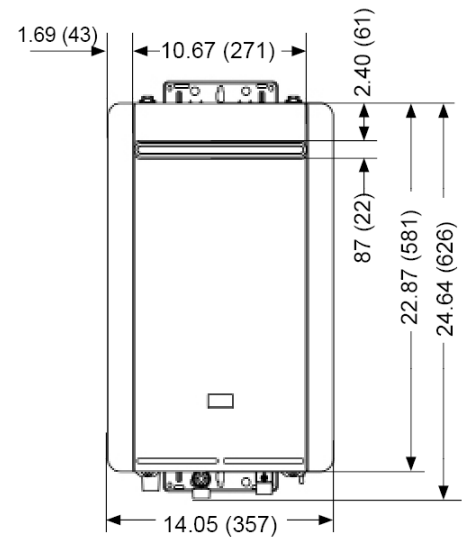
WATER FLOW CURVE



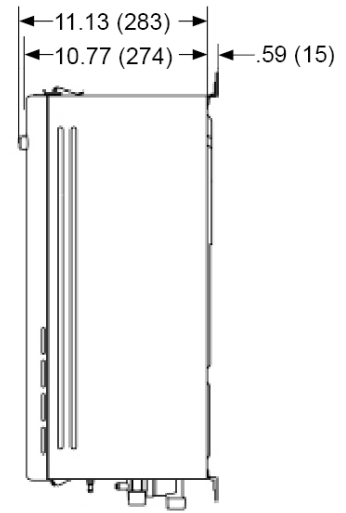
DIMENSIONS

in. (mm)

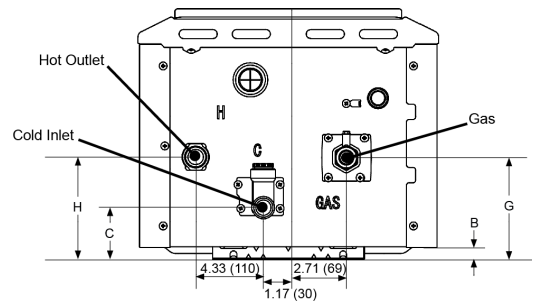
FRONT



SIDE



BOTTOM



Connection		in.	mm
COLD	C	2.41	61
HOT	H	4.76	120
GAS	G	4.74	121
Bracket	B	0.59	15