

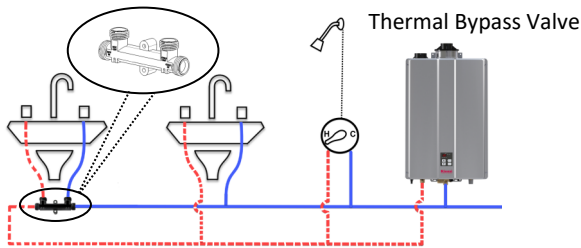
WITH INTEGRATED PUMP



■ CIRC-LOGIC RECIRCULATION TECHNOLOGY

Rinnai Circ-Logic recirculation technology allows users to set recirculation patterns that coincide with their hot water usage patterns. Hot water is available when needed, without the expense of circulating it during times of inactivity. Two recirculation modes are available:

- **Dedicated Mode** - With a dedicated return line, the integrated pump recirculates water from the tankless water heater through the return line and back to the heater.
- **Crossover Mode** - In applications where a dedicated return line is not available or is difficult to install, Circ-Logic technology allows




Smart-Circ™ Intelligent Recirculation™

- Intelligent Recirculation “learns” users’ hot water patterns to schedule recirculation.

■ EASE OF INSTALLATION AND SERVICEABILITY

- Compact Design to Save Space
- Wi-Fi Technology for Remote Monitoring, Management and Recirculation Control.
- Improved Gas Conversion
- Includes Certified Isolation Valves for Potable Water

HIGH-EFFICIENCY (NON-CONDENSING) TANKLESS WATER HEATER	
Installation Type	External (Outdoor) Residential Applications. Manufactured (Mobile) Home Certified
Model Numbers	REP199e (REU-VEP2730WD-US) REP160e (REU-VEP2125WD-US)
Approved Gas Types	Natural and Propane
Efficiency	 UEF: 0.81 (REP199e, REP160e)
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	<ul style="list-style-type: none"> • 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
Included with Purchase	Tankless Water Heater
Additional Features	<ul style="list-style-type: none"> • Mobile Home Certified • Complies with South Coast Air Quality Management District 14 ng/J or 20 ppm NOx Emission Levels • Ultra Low NOx

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.



CERTIFIED TO ANSI Z21.10.3 – CSA 4.3

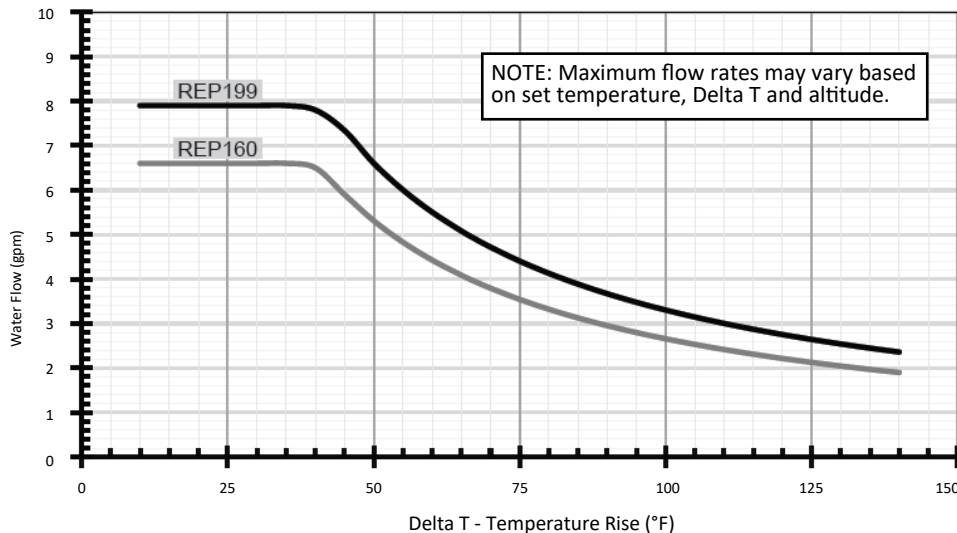
TECHNICAL SPECIFICATIONS

SPECIFICATION		REP199e	REP160e
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	160,000
Flow Rate ¹ (Min - Max)		0.26 - 7.9 GPM (1.0 - 30 L/min)	0.26 - 6.6 GPM (1.0 - 25 L/min)
Max Flow Rate with Parameter Adjustment		7.9 GPM (30 L/min)	6.6 GPM (25 L/min)
Activation Flow Rate		0.4 GPM (1.5 L/min)	
Weight		50.2 lb (22.8 kg)	46.7 lb (26.2 kg)
Sound Level		54 dB	
Electrical	Normal	74 W	60 W
	Standby	1 W	
	Freeze Protection	122 W	
	Normal with Pump Operation	142 W	129 W
	Max Current	4 Amps	
	Fuse	10 Amps	
Temperature		120°F-140°F (49°C-60°C)	
By-Pass Flow Control		Fixed Bypass	
Gas Supply Pressure ²		<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		<ul style="list-style-type: none"> 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 	
Controller Cable		Non-Polarized Two Core Cable (Minimum 22 AWG)	
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. (305 mm) Front: 0 in.* Back: 0 in. Sides: 2 in. (51 mm)** Vent: 0 in. 	

* Clearance for servicing is 24 in. (610 mm) in front of water heater
 ** Add 0.125 in. (3.18 mm) for recess box

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 not exceed the value specified by the manufacturer.

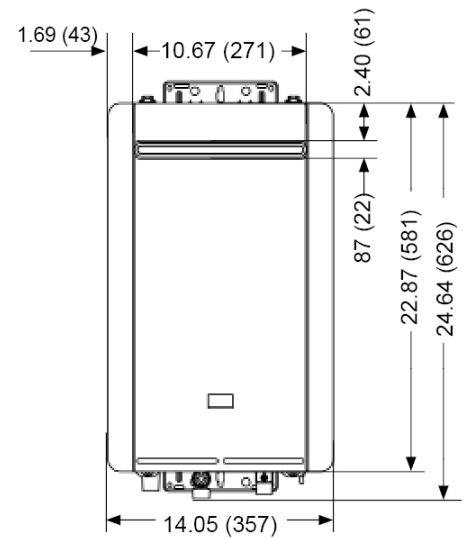
WATER FLOW CURVE



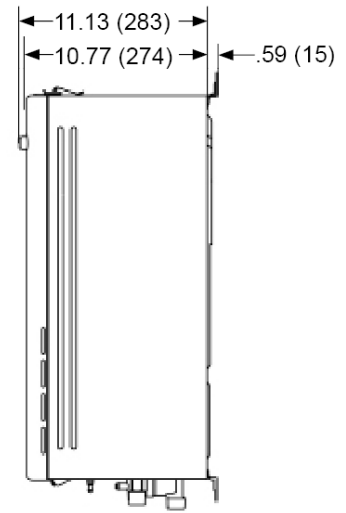
DIMENSIONS

in. (mm)

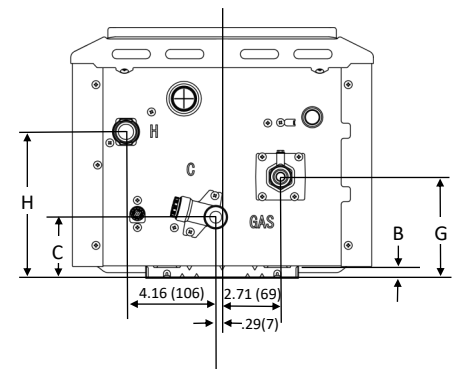
FRONT



SIDE

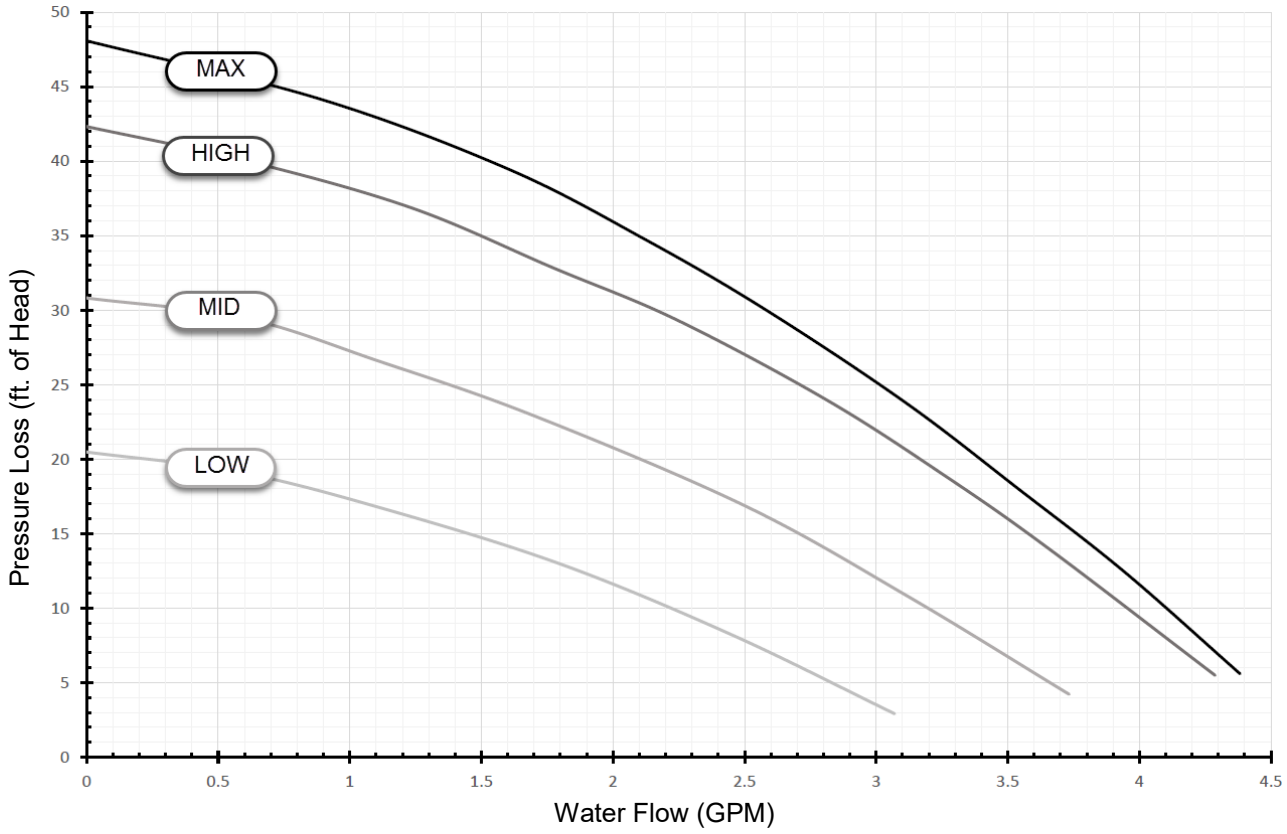


BOTTOM



Connection		in.	mm
COLD	C	2.87	73
HOT	H	6.85	173
GAS	G	4.76	121
Bracket	B	0.59	N/A

REP199e Pressure Drop Curve (Water Heater + Pump)



REP160e Pressure Drop Curve (Water Heater + Pump)

