Rinnai

REP199i, REP160i INTERNAL (INDOOR) NON-CONDENSING TANKLESS WATER HEATER

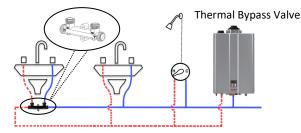
WITH INTEGRATED PUMP



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 for the simple installation of a Thermal Bypass Valve (included with purchase) at the fixture farthest away from the water heater.



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

HIGH-EFFICIENCY (NON-CONDENSING) TANKLESS WATER HEATER						
Installation Type	Internal (Indoor) Residential Applications. Manufactured (Mobile) Home Certified					
Model Numbers	REP199i (REU-VEP2730FFD-US)					
	REP160i (REU-VEP2125FFD-US)					
Approved Gas Types	Natural and Propane					
Efficiency	CALERI CERTIFIED. UEF: 0.82 (REP199i)					
	0.81 (REP160i)					
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					
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

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

OPTIONAL ACCESSORIES

Room Air Screen, Condensate Neutralizer, ScaleCutter, Drain Down Kit, Additional Controllers, Pipe Cover, Recirculation Pump, DPS/MIS Switch, EZConnect[™] Cables, Wireless Accessories, and many more. Visit rinnai.us for a complete list of accessories.

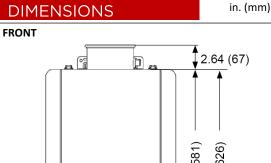


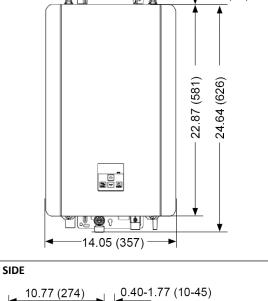
CERTIFIED TO ANSI Z21.10.3 - CSA 4.3

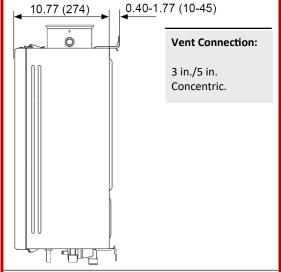
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TECHNICAL SPECIFICATIONS

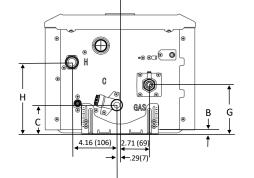
SPECIFICATION		REP199i	REP160i		
Dime	ensions - w, h, d	14.05 in. x 27.3 in. x 11.2 (357 mm x 693 mm x 284 mm)			
Minimum Gas Consumption Btu/h		10,400			
Maximum Gas Consumption Btu/h		199,000	160,000		
Flow Rate ¹ (Min - Max)		0.26 - 7.9 GPM (1.0 - 30 L/min)	0.26 - 6.6 GPM (1.0 - 25 L/min)		
Max Flow 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)			
Weig	sht	50 lb (22.7 kg)	47 lb (21.3 kg)		
Soun	d Level	55 dB			
	Normal	96 W	91 W		
	Standby	1 W			
rical	Freeze Protection	86 W			
Electrical	Normal with Pump Operation	162 W	160 W		
	Max Current	4 Amps			
	Fuse	10 Amps			
Temperature Setting		120°F-140°F (49°C-60°C)			
By-Pass Flow Control		Fixed Bypass			
Gas Supply Pressure ²		 Natural: 4.0 in. w.c 10.5 in. w.c. Propane: 8.0 in. w.c 13.0 in. w.c. 			
Igniti	on System	Direct Electronic Ignition			
Elect	ronic Connections	Appliance: AC 120 Volts, 60Hz.			
Water Supply Pressure Minimum: 20 PSI (Recommended 30-80 P) Maximum: 150 PSI			30-80 PSI for max performance)		
Servi	ce Connections	 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 			
Clea	ances	 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. 			











Connection		in.*	mm*	in.**	mm**
COLD	С	2.69	68	4.05	103
HOT	Н	6.66	169	8.04	204
GAS	G	4.57	116	5.94	151
Bracket	В	.40	10	1.77	45

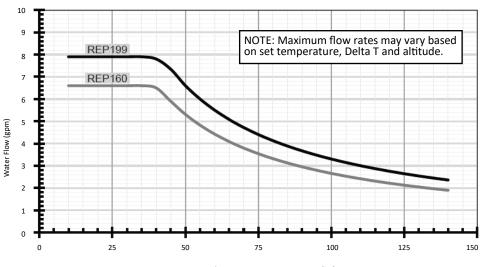
*Wall bracket retracted.

**Wall bracket extended.

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

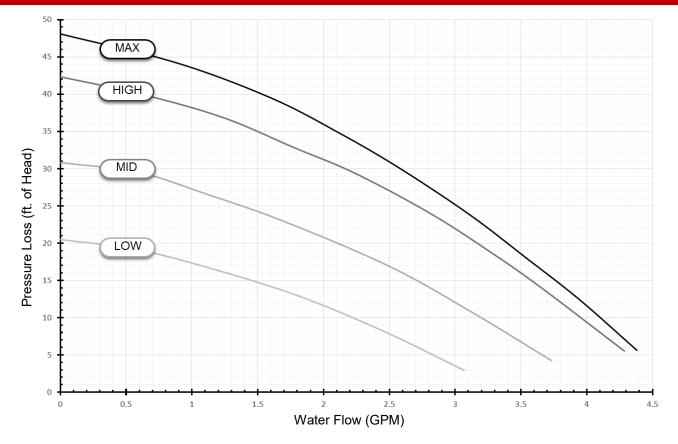
¹Minimum flow may vary slightly depending on the temperature setting and the inlet water temperature. Minimum activation flow is 0.4 GPM (1.5 L/min).
²The maximum gas supply pressure must not exceed the specified value.

WATER FLOW CURVE

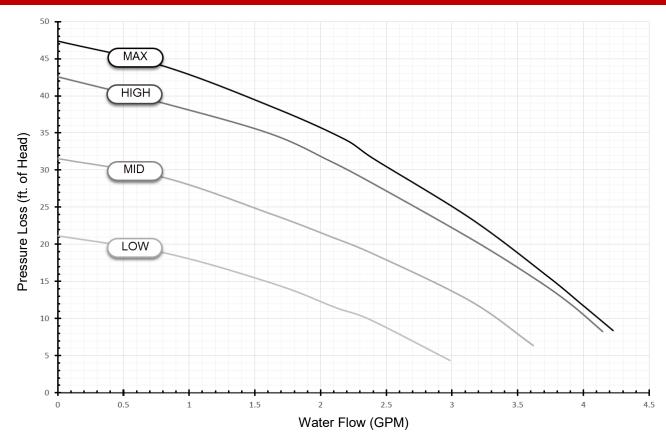


Delta T - Temperature Rise (°F)

REP199i Pressure Drop Curve (Water Heater + Pump)



REP160i Pressure Drop Curve (Water Heater + Pump)



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