Rinnai

RU199i, RU180i, RU160i, RU130i

INTERNAL (INDOOR) CONDENSING TANKLESS WATER HEATER

RESIDENTIAL



FLEXIBLE VENTING OPTIONS

- Concentric or Schedule 40 PVC/CPVC
- Direct Vent (Concentric and Twin Pipe)
- Non-Direct Vent (Room Air)
- Common Vent (Direct Vent and Room Air)
- Maximum Equivalent Vent Lengths:

Twin Pipe								
Vent Sizes	2 in. (51 mm)	3 in. (76 mm)						
Vent Lengths	65 ft (20 m)	150 ft (46 m)						
Concentric								
Vent Sizes	2 in. X 4 in.	3 in. X 5 in.						
Vent Lengths	65 ft (20 m)	150 ft (46 m)						

EASE OF INSTALLATION AND **SERVICEABILITY**

- Compact Design to Save Space
- Wi-Fi Technology for Remote Monitoring and Management
- Sliding Mounting Bracket for Easy Installation
- Simple Gas Conversion

OPTIONAL ACCESSORIES

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

SUPER-HIGH-EFFICIENCY (CONDENSING) TANKLESS WATER HEATER						
Installation Type	Internal (Indoor) Residential Applications. Manufactured (Mobile) Home Certified					
Model Numbers	RU199i (REU-N3237FF-US)					
	RU180i (REU-N2934FF-US)					
	RU160i (REU-N2530FF-US)					
	RU130i (REU-N2024FF-US)					
Approved Gas Types	Natural and Propane					
Efficiency	ALRI CERTIFIED.	UEF: 0.95 (RU199i, RU180i, RU160i)				
		0.91 (RU130i)				
	Ratings not certified by AHRI	EF: 0.96 (RU199i) 0.95 (RU180i, RU160i, RU130i)				
High Altitude Approved	Up to 10,200 ft (3,109 m)					
Water Flow Control	Water Flow Sensor, Electronic Water Control and Bypass Control					
Controller	Standard: Integrated Controller					
	Optional: MC-195T-US, MC-100V-1US, BC-100V-1US, MCC-91-2US					
Certifications	AHRI, ANSI Z21.10.3, CSA 4.3, and ENERGY STAR [®]					

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

Included with Purchase

Tankless Water Heater, Wall Mounting Bracket, Pressure Relief Valve and Adapter, Isolation Valve Kit, Vent Screens (x2), Vent Screen Screws (x2) and Self-Tapping Screws (x2)

Additional Features

- Ultra Low NOx
- Tankless Rack System[™] Compatible
- Mobile Home Certified 1/2 in. (13 mm) Gas Line Compatible
 - Complies with South Coast Air Quality Management District 14 ng/J or 20 ppm NOx **Emission Levels**



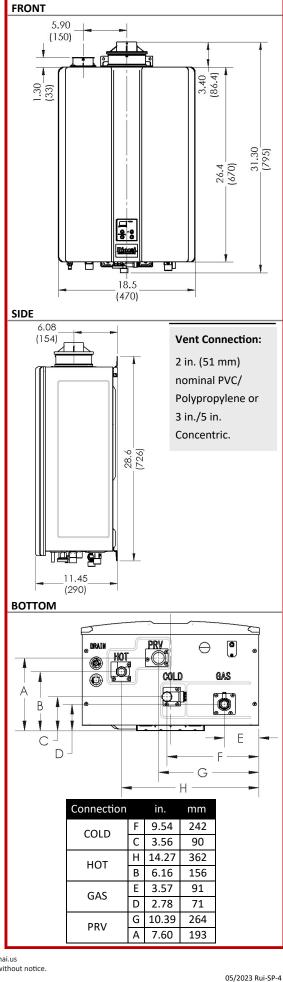
CERTIFIED TO ANSI Z21.10.3 - CSA 4.3

SENSEI[™] TECHNICAL SPECIFICATIONS

	SPECIFICATION	RU199i	RU180i	RU160i	RU130i		
Dime	ensions - w, h, d	18.5 in. x 26	18.5 in. x 26.4 in. x 11.4 in. (470 mm x 670 mm x 290 mm)				
	mum Gas umption Btu/h		15,000				
Maximum Gas Consumption Btu/h		199,000	180,000	160,000	130,000		
Flow Rate ¹ (Min - Max)		0.26 - 9.8 GPM (1.0 - 37 L/min)	0.26 - 9.0 GPM (1.0 - 34 L/min)	0.26 - 8.0 GPM (1.0 - 30 L/min)	0.26 - 6.6 GPM (1.0 - 24 L/min)		
Max Flow Rate with Parameter Adjustment		11 GPM (42 L/min)	10 GPM (38 L/min)	9 GPM (34 L/min)	7 GPM (26 L/min)		
Weight		64 lb (29 kg)	64 lb (29 kg)	62 lb (28 kg)	62 lb (28 kg)		
Soun	id Level	48 dB	47 dB	47 dB	47 dB		
	Normal	84 W	65 W	52 W	38 W		
cal	Standby		1.3 W				
Electrical	Freeze Protection		148 W				
Ele	Max Current	4 Amps					
	Fuse		10 Amps				
Temperature		 Minimum: 98° F (37° C) Default Maximum: 120° F (49° C) Default 140° F (60° C) With Parameter Adjustment 					
By-Pa	ass Flow Control	Electronic					
Gas S	Supply Pressure ²		 Natural: 3.5 in. w.c 10.5 in. w.c. Propane: 8.0 in. w.c 13.5 in. w.c. 				
Igniti	Ignition System Direct Electronic Ignition						
Elect	ronic Connections	 Appliance: AC 120 Volts, 60Hz. Temperature Controller: DC 12 Volts (Digital) 					
Wate	er Supply Pressure	 Minimum: 50 PSI (Recommended 60-80 PSI for max performance) Maximum: 150 PSI 					
Cont	roller Cable	Non-Polarized Two Core Cable (Minimum 22 AWG)					
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 Condensate Drain: 1/2 in. (13 mm) NPT 					
Clear	rances	 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. 					

SENSEI[™] DIMENSIONS

in. (mm)



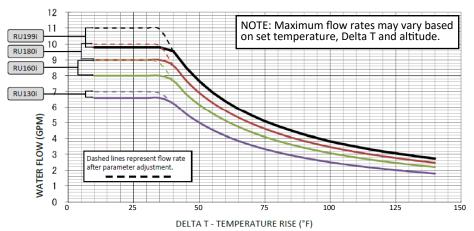
0 in. from vent components Clearance for servicing is 24 in. (610 mm) in front of water heater 4 Add 0.25 in. (6.35 mm) for recess box

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.

SENSEI[™] WATER FLOW CURVE

Flow curves apply only to incoming water temperatures of 70° F (21° C) or less. For incoming water temperatures greater than 70° F (21° C), please contact Rinnai.



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