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

	and the second s					
	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 (CONTANKLESS WATER HEATER	R-HIGH-EFFICIENCY (CONDENSING) (LESS 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				
Uniform Energy Factor (UEF)	RU199i, RU180i, RU160i:				
	RU130i:	0.91			
Energy Factor (EF)	RU199i:				
(Canada)	RU180i, RU160i, RU130i:	0.95			
High Altitude Approved	Up to 10,200 ft (3,109 m)	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 AHRI, ANSI Z21.10.3, CSA 4.3, and ENERGY STAR®				
Certifications					

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

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











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 26.4 in. x 11.4 in. (470 mm x 670 mm x 290 mm)				
	mum Gas sumption Btu/h	15,000				
Maximum Gas Consumption Btu/h		199,000	180,000	160,000	130,000	
	Rate ¹ - 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)	
	Flow Rate with meter Adjustment	11 GPM (42 L/min)	10 GPM (38 L/min)	9 GPM (34 L/min)	7 GPM (26 L/min)	
Weig	ght	64 lb (29 kg)	64 lb (29 kg)	62 lb (28 kg)	62 lb (28 kg)	
Sour	id Level	48 dB	47 dB	47 dB	47 dB	
	Normal	84 W	65 W	52 W	38 W	
-E	Standby		1.3 W			
Electrical	Freeze Protection	148 W				
Ele	Max Current	4 Amps				
	Fuse		10 Amps			
Tem	perature	Minimum: 98° F (37° C) Default Maximum: 120° F (49° C) Default 140° F (60° C) With Parameter Adjustment				
Ву-Р	ass Flow Control	Electronic				
Gas :	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. 				
Ignit	ion 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)				
Service 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. 				

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

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).

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.



