# 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<sup>™</sup> Cables, control·r<sup>™</sup> 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 <sup>®</sup>					

#### 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<sup>™</sup> 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**



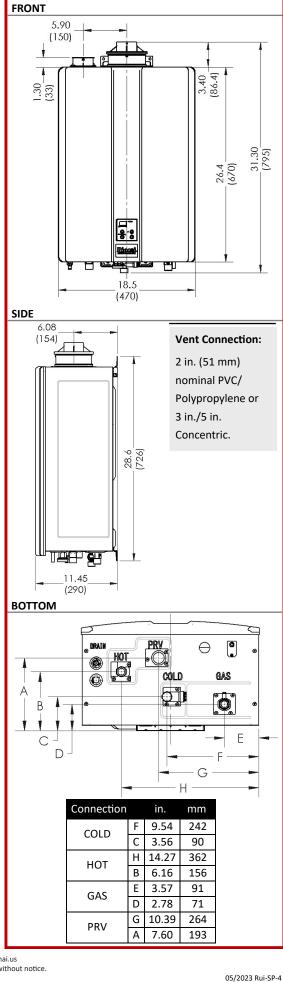
CERTIFIED TO ANSI Z21.10.3 - CSA 4.3

# SENSEI<sup>™</sup> 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 <sup>1</sup> (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		<ul> <li>Minimum: 98° F (37° C) Default</li> <li>Maximum: 120° F (49° C) Default 140° F (60° C) With Parameter Adjustment</li> </ul>					
By-Pa	ass Flow Control	Electronic					
Gas S	Supply Pressure <sup>2</sup>		<ul> <li>Natural: 3.5 in. w.c 10.5 in. w.c.</li> <li>Propane: 8.0 in. w.c 13.5 in. w.c.</li> </ul>				
Igniti	Ignition System Direct Electronic Ignition						
Elect	ronic Connections	<ul> <li>Appliance: AC 120 Volts, 60Hz.</li> <li>Temperature Controller: DC 12 Volts (Digital)</li> </ul>					
Wate	er Supply Pressure	<ul> <li>Minimum: 50 PSI (Recommended 60-80 PSI for max performance)</li> <li>Maximum: 150 PSI</li> </ul>					
Cont	roller Cable	Non-Polarized Two Core Cable (Minimum 22 AWG)					
Servi	ce Connections	<ul> <li>Gas Supply: 3/4 in. (19 mm) NPT</li> <li>Cold Water Inlet: 3/4 in. (19 mm) NPT</li> <li>Hot Water Outlet: 3/4 in. (19 mm) NPT</li> <li>Condensate Drain: 1/2 in. (13 mm) NPT</li> </ul>					
Clear	rances	<ul> <li>Top: 2 in. (51 mm)*</li> <li>Bottom/Ground: 12 in. (305 mm)</li> <li>Front: 0 in.**</li> <li>Back: 0 in.</li> <li>Sides: 2 in. (51 mm)***</li> <li>Vent: 0 in.</li> </ul>					

SENSEI<sup>™</sup> DIMENSIONS

in. (mm)



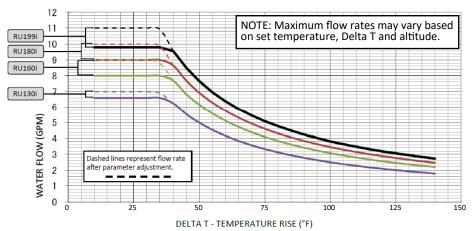
0 in. from vent components Clearance for servicing is 24 in. (610 mm) in front of water heater 4 Add 0.25 in. (6.35 mm) for recess box

<sup>1</sup> 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<sup>™</sup> 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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