

# RU199e, RU180e, RU160e, RU130e external (outdoor) condensing tankless water heater

### RESIDENTIAL



## EASE OF INSTALLATION AND SERVICEABILITY

- Compact Design to Save Space
- Wi-Fi Technology for Remote Monitoring and Management
- Simple Gas Conversion

#### OPTIONAL ACCESSORIES

Condensate Neutralizer, ScaleCutter, Drain Down Kit, Additional Controllers, Recess Box, 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	External (Outdoor) Residential Applications. Manufactured (Mobile) Home Certified					
Model Numbers	RU199e (REU-N3237W-US)					
	RU180e (REU-N2934W-US)					
	RU160e (REU-N2530W-US)					
	RU130e (REU-N2024W-US)					
Approved Gas Types	Natural and Propane					
	UEF: 0.93 (RU199e, RU180e, RU160e)					
	0.92 (RU130e)					
Efficiency	Ratings not EF: 0.96 (RU199e, RU180e, certified by AHRI RU160e)					
	0.95 (RU130e)					
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						

#### Warranty

- Heat Exchanger: 15 years or 12,000 operation hours, whichever occurs
- 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
- Pressure Relief Valve and Adapter
- Isolation Valve Kit
- Integrated Controller

#### **Additional Features**

- Mobile Home Certified
- Ultra Low NOx
- Tankless Rack System™ Compatible
- 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 72110.3 - 08A 4.3



## SENSELHITECHNICAL SPECIFICATIONS

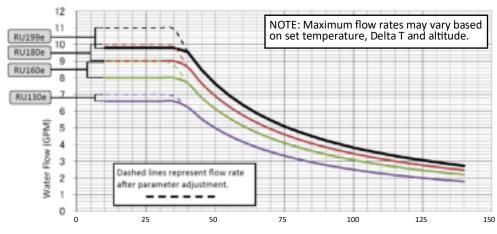
	SPECIFICATION	RU199e	RU180e	RU160e	RU130e		
Dime	ensions - w, h, d	18.5 in. x 26.4 in. x 11.4 in. (470 mm x 670 mm x 290 mm)					
	mum Gas umption Btu/h	15,000					
Maximum Gas Consumption Btu/h		199,000	180,000	160,000	130,000		
Flow Rate <sup>1</sup> (Min - Max)		0.26 - 9.8 GPM (1.0 - 37 L/min)	0.26 - 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)		
Sound Level		53 dB	52 dB	52 dB	52 dB		
cal	Normal	81 W	62 W	49 W	36 W		
	Standby	1.3 W					
Electrical	Freeze Protection	152 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 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>					
Ignition System		Direct Electronic Ignition					
		<ul> <li>Appliance: AC 120 Volts, 60Hz.</li> <li>Temperature Controller: DC 12 Volts (Digital)</li> </ul>					
Wate	er Supply Pressure	Minimum: 50 PSI (Recommended 60-80 PSI for max performance) Maximum: 150 PSI					
Cont	Controller Cable Non-Polarized Two Core Cable (Minimum 22 AWG)						
Servi	<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	● Top: 2 in. (51 mm)*						

- \* 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).  $^2$  The maximum gas supply pressure must not exceed the value specified by the manufacturer.

#### SENSEL! 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.



# SENSEL# DIMENSIONS in. (mm) **FRONT** 6.00 6.50 (165) (152)27.9 26.4 18,50 [470] SIDE 12.0 (30.5) 유용 26.4 11,45 (290)воттом 8 Connection in. mm 9.54 242 COLD С 3.56 90 14.27 362 Н HOT В 6.16 156 3.57 Ε 91 GAS 2.78 71 D G 10.39 264 **PRV** 193 Α 7.60