

# 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
Efficiency	UEF: 0.93 (RU199e, RU180e, RU160e)
	0.92 (RU130e)
	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®
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#### 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
- 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 Z21.10.3 - CSA 4.3

#### SENSEI $^{\mathrm{IM}}$ TECHNICAL SPECIFICATIONS **SPECIFICATION RU130e** RU199e **RU180e RU160e** Dimensions - w, h, d 18.5 in. x 26.4 in. x 11.4 in. (470 mm x 670 mm x 290 mm) Minimum Gas 15,000 Consumption Btu/h Maximum Gas 199,000 180,000 160,000 130,000 Consumption Btu/h 0.26 - 6.6 GPM (1.0 - 24 L/min) Flow Rate 0.26 - 9.8 GPM 0.26 - 9.0 GPM 0.26 - 8.0 GPM (1.0 - 34 L/min) (1.0 - 30 L/min) (Min - Max) (1.0 - 37 L/min) Max Flow Rate with 11 GPM 10 GPM 9 GPM 7 GPM Parameter Adjustment (42 L/min) (38 L/min) (34 L/min) (26 L/min) 64 lb (29 kg) 64 lb (29 kg) 62 lb (28 kg) 62 lb (28 kg) Weight Sound Level 52 dB 53 dB 52 dB 52 dB Normal 81 W 62 W 49 W 36 W Standby 1.3 W Freeze Protection 152 W Max Current 4 Amps Fuse 10 Amps 98° F (37° C) Default Minimum: Maximum: 120° F (49° C) Default 140° F (60° C) With Parameter Adjustment Temperature **By-Pass Flow Control** Electronic 3.5 in. w.c. - 10.5 in. w.c. Natural: Gas Supply Pressure<sup>2</sup> Propane: 8.0 in. w.c. - 13.5 in. w.c. Ignition System Direct Electronic Ignition Appliance: AC 120 Volts, 60Hz. **Electronic Connections** Temperature Controller: DC 12 Volts (Digital) Minimum: 50 PSI (Recommended 60-80 PSI for max performance) Water Supply Pressure Maximum: 150 PSI Non-Polarized Two Core Cable (Minimum 22 AWG) Controller Cable Gas Supply: 3/4 in. (19 mm) NPT Cold Water Inlet: 3/4 in. (19 mm) NPT Service Connections Hot Water Outlet: 3/4 in. (19 mm) NPT Condensate Drain: 1/2 in. (13 mm) NPT Top: 2 in. (51 mm)\* • Back: 0 in.

Clearances

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

Front: 0 in.\*\*

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.

Bottom/Ground: 12 in. (305 mm) • Sides: 2 in. (51 mm)\*\*\*

• Front Exhaust: 24 in. (610 mm)

# 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.



