Rinnai_®

COMMERCIAL



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)
 Vent lengths up to 150 ft with eight Tankless Water Heater units.
- 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, Recess Box, Recirculation Pump, DPS/MIS Switch, EZConnect™ Cables, Cascade 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) Commercial Applications				
Model Numbers	CU199i (REU-N3237FFC-US)				
	CU160i (REU-N2530FFC-US)				
Approved Gas Types	Natural and Propane				
Efficiency	ALEX CERTIFIED.	UEF up to 0.93			
	Ratings not certified by AHRI	Thermal Efficiency: Up to 97%			
		EF: 0.96 (CU199i) 0.95 (CU160i)			
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-91-2US				
Certifications	AHRI, ANSI Z21.10.3, CSA 4.3, and ENERGY STAR®				

Warranty

- Heat Exchanger: 8 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

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

COMMERCIAL APPLICATIONS

Commercial Tankless Rack Systems



Demand Duo™ Commercial Hybrid System











CERTIFIED TO ANSI Z21.10.3 - CSA 4.3

SENSEI™TECHNICAL SPECIFICATIONS					
	SPECIFICATION	CU199i	CU160i		
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	160,000		
Flow Rate ¹ (Min - Max)		0.26 - 9.8 GPM (1.0 - 37 L/min)	0.26 - 8.0 GPM (1.0 - 30 L/min)		
Max Flow Rate with Parameter Adjustment		11 GPM (42 L/min)	9 GPM (34 L/min)		
Weight		64 lb (29 kg)	62 lb (28 kg)		
Soun	d Level	49 dB	48 dB		
	Normal	84 W	52 W		
ca	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: 140° F (60° C) Default 185° F (85° C) With Parameter Adjustment 			
By-Pass Flow Control		Electronic			
		 Natural: 3.5 in. w.c 10.5 in. w.c. Propane: 8.0 in. w.c 13.5 in. w.c. 			
Ignition System		Direct Electronic Ignition			
Elect	Appliance: AC 120 Volts, 60Hz. Temperature Controller: DC 12 Volts (Digital)		olts (Digital)		
Wate	Minimum: 50 PSI (Recommended 60-80 PSI for max performar Maximum: 150 PSI		60-80 PSI for max performance)		
Cont	ntroller Cable Non-Polarized Two Core Cable (Minimum 22 AWG)		mum 22 AWG)		
Servi	 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) NPT		
 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. 		• Sides: 2 in. (51 mm)***			

0 in. from vent components

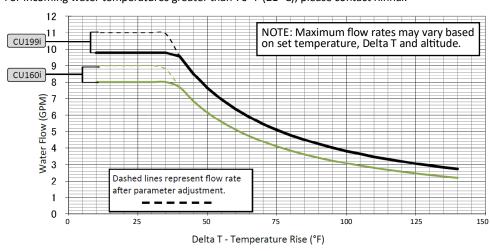
Clearance for servicing is 24 in. (610 mm) in front of water heater

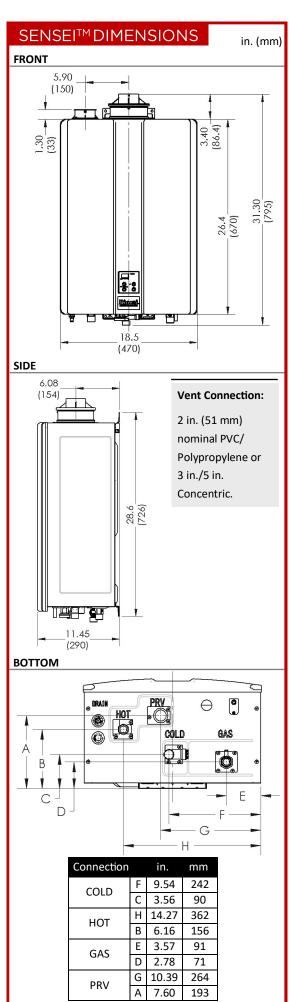
*** Add 0.25 in. (6.35 mm) for recess box

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.





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.