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
- Maximum Equivalent Vent Lengths:

Twin Pipe (PVC/CPVC and PP)

	Vent Sizes	2 in. (51 mm)	3 in. (76 mm)
	Vent Lengths	75 ft (23 m)	150 ft (46 m)
Concentric			

Vent Sizes	2 in. X 4 in.	3 in. X 5 in.
Vent Lengths	75 ft (23 m)	150 ft (46 m)

EASE OF INSTALLATION AND SERVICEABILITY

- Smart-Sense™: Adaptive gas valve technology No gas conversion kit required.
- Versa-Vent™: Outdoor vent cap adapts to any SENSEI™ CX Series model for outdoor installation.
- Smart Connect™: Allows you to connect your phone or tablet to SENSEI[™] CX Series via Bluetooth® using Rinnai Central[™] app.
- Quick-Flush™: Provides an efficient flushing procedure to make periodic preventive maintenance a simple task to perform.

SUPER-HIGH-EFFICIENCY (CONDENSING) TANKLESS WATER HEATER

TANKLESS WATER HEATER			
Installation Type	Internal (Indoor) Commercial Applications External (Outdoor) Commercial Applications		
Model Numbers	with Outdoor Vent Cap CX199i (REU-NB3237FFC-US) CX160i (REU-NB2530FFC-US)		
Approved Gas Types	Natural and Propane		
	ALD CERTIFIED.	UEF: 0.98 (CX199i) 0.97 (CX160i)	
Efficiency	Ratings not certified by AHRI	Thermal Efficiency: 97%	
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-601-BK/W		
Certifications AHRI, ANSI Z21.10.3, CSA 4.3, an STAR®		CSA 4.3, and ENERGY	

Warranty

- Heat Exchanger: 8 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, Wall Mounting Bracket, Vent Screens (x2), Vent Screen Screws (x2), and Self-Tapping Screws (x4)

Additional Features

- Complies with South Ultra Low NOx Coast Air Quality Management District 14 ng/J or 20 ppm NOx Emission Levels

 - Tankless Rack System™ Compatible
 - 1/2 in. (13 mm) Gas Line Compatible
 - Up to 24 units Cascade Capability

Additional Applications

- Commercial Tankless Rack Systems
- Demand Duo[™] Commercial Hybrid System











CERTIFIED TO ANSI Z21.10.3 — CSA 4.3

OPTIONAL ACCESSORIES

Description	Part Number	Description	Part Number	Description	Part Number
Outdoor Vent Cap*	RXOVC	Pipe Cover*	PCD11-IB	Controllers	MC-601-BK/W, MC-195T-US
Internal Add-on Recirc. Pump Conversion Kit*	RX2RXPCK	Recess Box for SENSEI TM CX Series*	RGBCTWHRX	Condensate Neutralizer	103000067, 804000074
Dedicated Return with Isolation Valves and PRV*	107000639	Bottom Plate for Pipe Cover*	109001364	Scale Cutter	103000038
Retrofit Door for CX in RGB-CTWH-4*	104000335	Wireless Module*	RWM200	Scale Cutter Refill	103000039
Retrofit Door for CX in RGB-CTWH-3, 2, 1*	104000336	OPU Switch	REU-OPU3	Cascade Cable	REU-CSA-C1, REU-CSA-C2
Recirculation Pump	GTK03U	Gas Conversion Kit (Labels Only)*	104000330	Leak Detection Kit	RXLeakKit

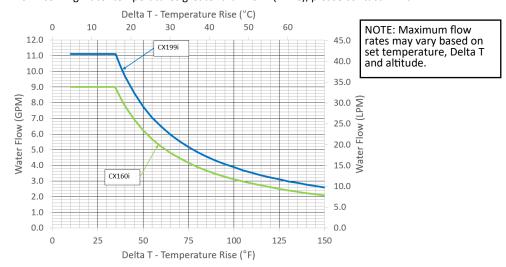
SENSEI [™] CX TECHNICAL SPECIFICATIONS				
SPECIFICATION		CX199i	CX160i	
Dimensions - w, h, d		18.5 in. x 25.8 in. x 11.4 in. (470 mm x 654 mm x 290 mm)		
Minimum Gas Consumption Btu/h		15,000		
Maximum Gas Consumption Btu/h		199,000	160,000	
Flow Rate ¹ (Min - Max)		0.13 - 11.0 GPM (0.5 - 42 L/min)	0.13 - 9.0 GPM (0.5 - 30 L/min)	
Weig	ht	55 lb (25 kg)	54 lb (24 kg)	
Sound Level		49 dB	48 dB	
	Normal	84 W	52 W	
cal	Standby	1.3 W		
Electrical	Freeze Protection	142 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		
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. 		
Igniti	on System	Direct Electronic Ignition		
Electronic Connections		 Appliance: AC 120 Volts, 60Hz. Temperature Controller: DC 12 Volts (Digital) 		
Water Supply Pressure		Minimum: 15 PSI (Recommended 50 PSI for max performance) Maximum: 150 PSI		
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 		
Clearances		 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.	

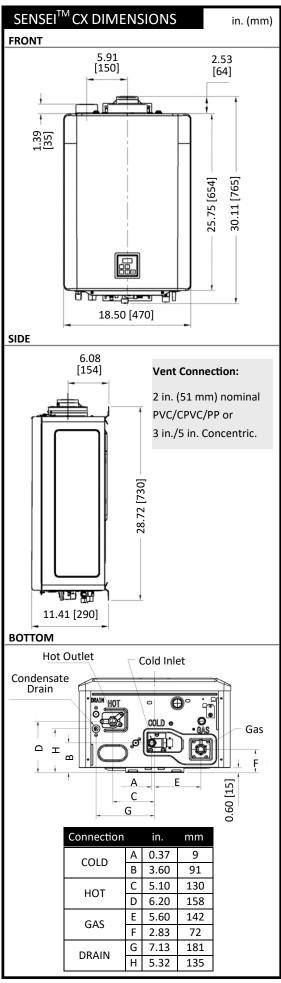
- 0 in. from vent components. Clearance for servicing is 24 in. (610 mm) in front of water heater. Add 0.25 in. (6.35 mm) for recess box.

The maximum gas supply pressure must not exceed the value specified by the manufacturer. Rinnal product are continually being updated and improved; therefore, specifications are subject to change without prior notice.

SENSEITM CX 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.





Activation flow rate may vary slightly depending on the temperature setting and the inlet water temperature.