

COMMERCIAL TANKLESS WATER HEATERS
CU199 AND CU160 MODELS
SUBMITTAL FORM



PROJECT DETAILS

Date: _____

Bid Date: _____

Project Name: _____

City / State / Zip Code: _____

Architect / Engineer: _____

Wholesaler / Contractor: _____

Model #: _____ Gas Type (NG or LP): _____ Total System Btu/h: _____

Notes:

FEATURES AND BENEFITS

- Approved Gas Types: Natural and Propane
- 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-601 Controller
- Certifications: AHRI, ANSI Z21.10.3, CSA 4.3, and ENERGY STAR®
- Safety Devices: Flame Failure - Flame Rod, Boiling Protection, Combustion Fan RPM Check, Over Current - Glass Fuse, Remaining Flame (OHS) and Automatic Frost Protection
- Complies with South Coast Air Quality Management District 14 ng/J or 20 ppm NOx Emission Levels
- Ultra Low NOx
- 1/2 in. (13 mm) Gas Line Compatible
- Tankless Rack System (TRS) Compatible

- 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.
- 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



CERTIFIED TO ANSI Z21.10.3 — CSA 4.3

WATER HEATER SELECTION

CU199:

Indoor:

Item	Qty	Installation Type	Gas Type	Model No. ¹
		Indoor	Natural Gas	CU199iN
		Indoor	Propane	CU199iP



Outdoor:

Item	Qty	Installation Type	Gas Type	Model No. ¹
		Outdoor	Natural Gas	CU199eN
		Outdoor	Propane	CU199eP



CU160:

Indoor:

Item	Qty	Installation Type	Gas Type	Model No. ¹
		Indoor	Natural Gas	CU160iN
		Indoor	Propane	CU160iP



Outdoor:

Item	Qty	Installation Type	Gas Type	Model No. ¹
		Outdoor	Natural Gas	CU160eN
		Outdoor	Propane	CU160eP



¹ Model Numbers Explained:

CU160iN → **CU** **160** **i** **N**

Water Heater Model:

- **CU Series**
- **Maximum Gas Consumption**
 - **160:** 160,000 Btu/h
 - **199:** 199,000 Btu/h

Gas Type:

- **N:** Natural Gas
- **P:** Propane

Installation Type:

- **i:** Interior
- **e:** Exterior

OPTIONAL ACCESSORY

Optional: Electronic Connection Cable:

- The Rinnai EZConnect® and Cascade Cables electronically connect water heaters. This connection rotates water heater operation order to ensure equal usage among the entire system and enables all water heaters connected to modulate operation and function as one hot water source.
- The cables connect to the PC Board inside each water heater.

EZConnect® Cable

For configurations with **2 water heaters** only.

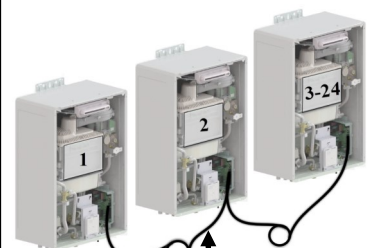


EZConnect® Cable

– Available Length: 6 ft

Cascade Cable

For configurations with **2 through 24 water heaters**.



Cascade Cable

- Available Lengths: 10 ft or 26 ft
- One cable required for each water heater.

SPECIFICATIONS

		Internal (Indoor) Units		External (Outdoor) Units	
		CU199i	CU160i	CU199e	CU160e
Minimum Gas Consumption Btu/h		15,000			
Maximum Gas Consumption Btu/h		199,000	160,000	199,000	160,000
Flow Rate¹ (Min-Max)		0.26-9.8 GPM (1.0-37 L/min)	0.26-8.0 GPM (1.0-30 L/min)	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)	11 GPM (42 L/min)	9 GPM (34 L/min)
Weight		64 lb (29 kg)	62 lb (28 kg)	64 lb (29 kg)	62 lb (28 kg)
Sound Level		48 dB	47 dB	53 dB	52 dB
Electrical Data	Normal	84 W	52 W	81 W	49 W
	Standby	1.3 W			
	Freeze Protection	148 W		152 W	
	Max Current	4 Amps			
	Fuse	10 Amps			
Temperature Setting		Minimum 98°F (37°C) Maximum: Default: 140°F (60°C) With Parameter Adjustment: 185°F (85°C)			
Bypass Flow Control		Electronic			
Gas Supply Pressure²	Natural	3.5 in. wc - 10.5 in. wc			
	Propane	8.0 in. wc - 13.5 in. wc			
Type of Appliance		Super-High-Efficiency (Condensing), Tankless, Temperature Controller Continuous Flow Gas Hot Water System			
Ignition System		Direct Electronic Ignition			
Electric Connections		Appliance: AC 120 Volts, 60Hz Temperature Controller: DC 12 Volts (Digital)			
Water Supply Pressure		Minimum: 50 PSI (Recommended 60-80 PSI for maximum performance) Maximum: 150 PSI			
Remote Control Cable		Non-Polarized Two Core Cable (Minimum 22 AWG)			
ENERGY STAR® Qualified		Yes			
Complies with South Coast Air Quality Management District 14 ng/J or 20 ppm NOx emission levels		Yes			

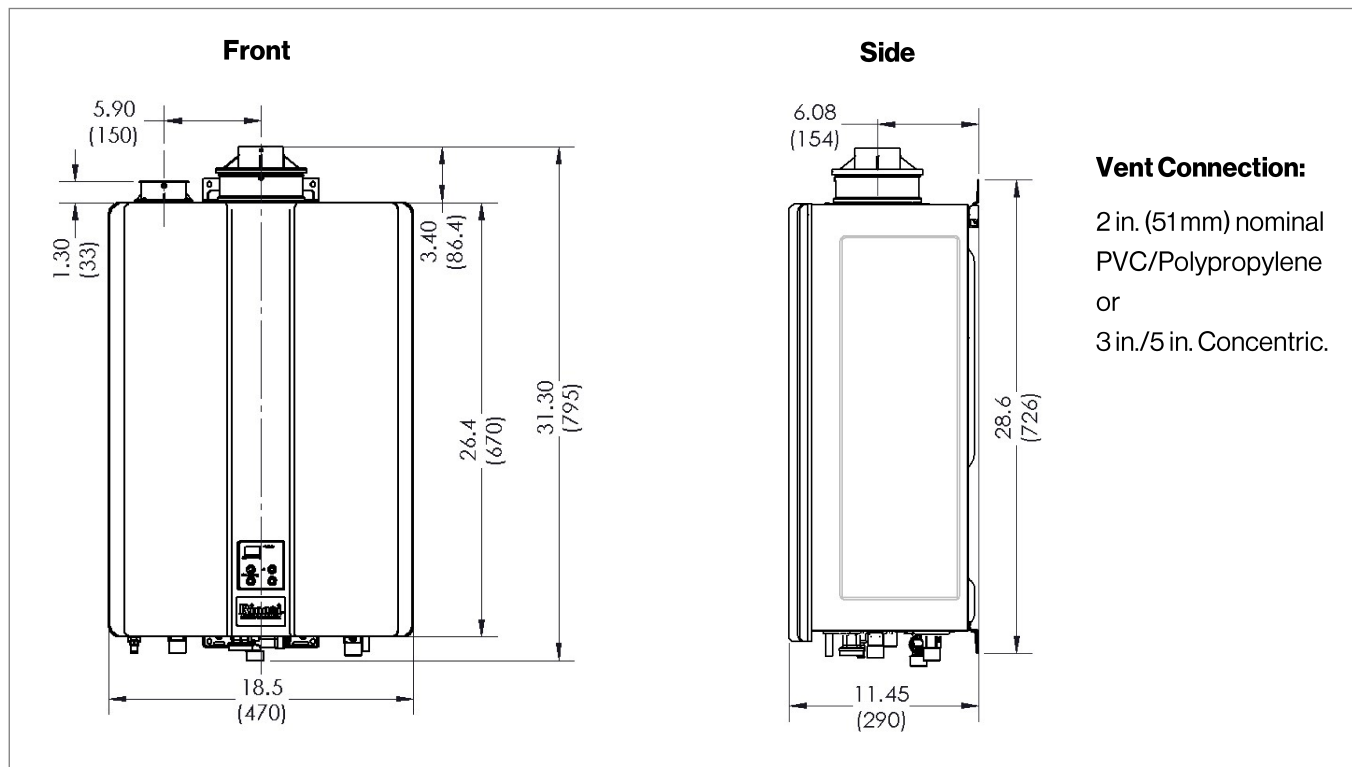
¹ Minimum flow may vary slightly depending on the temperature setting and the inlet water temperature. Minimum activation flow is 0.4 GPM (1.5 L/min).

² The maximum gas supply pressure must not exceed the value specified by the manufacturer.

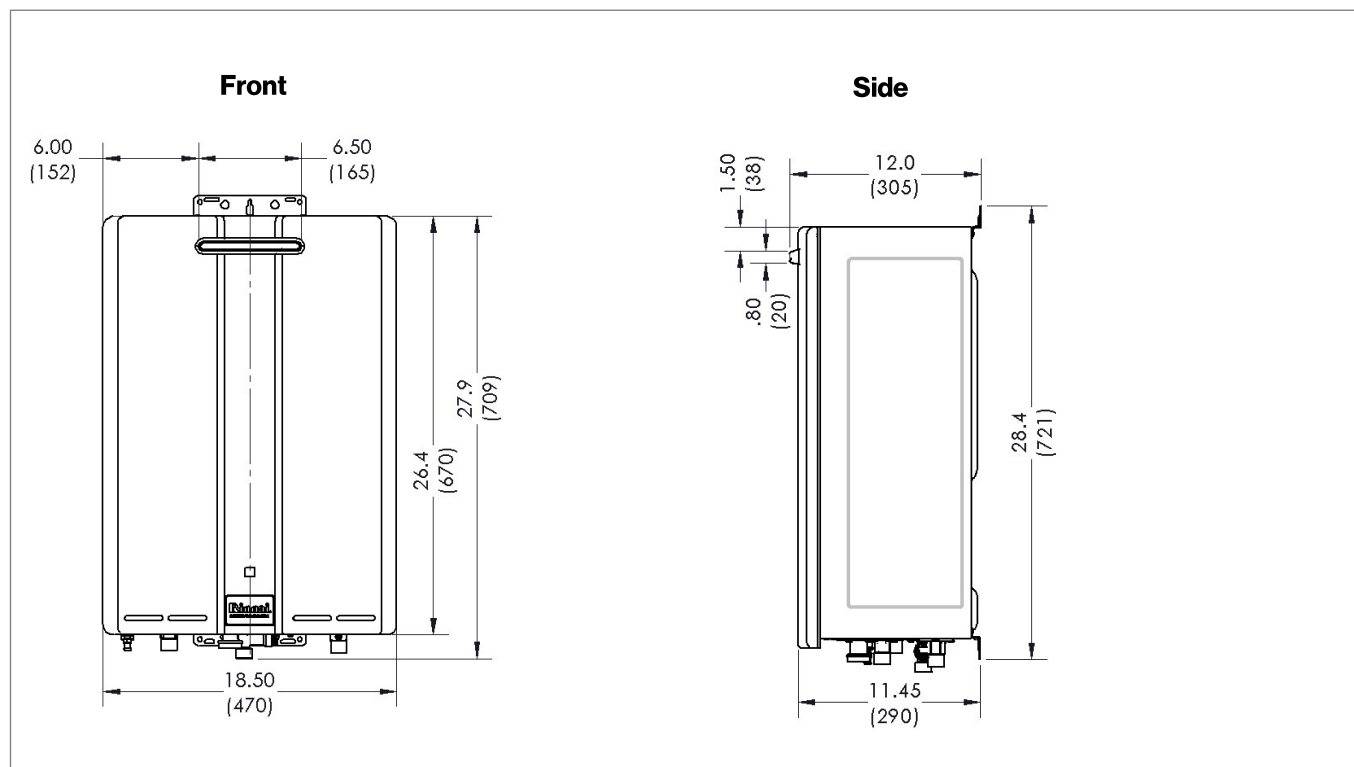
Rinnai products are continually being updated and improved; therefore, specifications are subject to change without prior notice.

DIMENSIONS

INTERNAL (INDOOR) MODELS:



EXTERNAL (OUTDOOR) MODELS:



PROJECT NOTES

CONTACT INFORMATION

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