Rinnai.

COMMERCIAL WATER HEATING SOLUTION



DuoSmart Tank Technology

119-Gallon Storage Tank Comes Equipped with Recovery Pump, Controller, Isolation Valves (Pre-Installed) and Controller Box.



Easy Installation and Serviceability

Rack system with two pre-installed Rinnai SENSEI™ CU199 Condensing Tankless Water Heaters and manifold. Simply attach frame legs and push rack close to tank.



SUPER-HIGH-EFFICIENCY (CONDENSING) HYBRID WATER HEATING SYSTEM

Installation Type	Internal (Indoor) Commercial Applications						
Model Number	CHS398100CU						
Approved Gas Types	Natural and Propane						
Maximum Gas Consumption	398,000 BTU/h						
Thermal Efficiency (CU199)	97%						
First Hour Delivery ¹	543 Gallons (2,055 Liters)						
High Altitude Approved	Up to 10,200 Ft (3,109 M)						
Recovery	459 GPH @ 100° Δ T						
Recirculation Pump	Grundfos UPS 26-150 (S)F; 3 Speed						
Tank Capacity	119 Gallons (450 L)						
Water Flow Control	Water Flow Sensor, Electronic Water Control and Bypass Control						
Water Temperature Control	Simulation Feed Forward and Feedback						
Controller	MCC-91-2US						
Venting Material	Polypropylene, PVC						
Venting Options	Concentric Polypropylene, Twin Pipe, or Common Vent Polypropylene/PVC/ CPVC. Vent lengths up to 150 ft.						
Certifications	AHRI, ANSI Z21.10.3, CSA 4.3, and Commercial ENERGY STAR® Certified (CU199i)						
Complies with South Coast Air Quality Management District 14 ng/J or 20 ppm NOx Emission Levels (CU199i)	Yes						
Ultra Low NOx	Yes						
Wi-Fi Ready	Yes						

¹ First Hour Delivery Rating is a theoretical calculation based on 70% usable tank capacity.

Tank Capacity x .70 + (recovery) = First Hour Rating

Included with purchase: Rack System with Two (2) Pre-installed Rinnai Tankless Water Heaters; 119-Gallon Storage Tank; Recovery Pump; Pump Isolation Valves; Electric Assembly; Recovery Controller Box; Water Flex Lines; Securing Bracket; Installation Hardware; and Documentation.

CU199 TANKLESS WATER HEATER:

CERTIFIED TO ANSI Z21.10.3 - CSA 4.3



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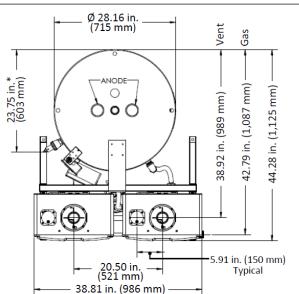
TECHNICAL SPECIFICATIONS

Minimum Gas Consumption Btu/h (kW/h)		30,400 (9)					
Maximum Gas Consumption Btu/h (kW/h)		398,000 (116.6)					
Tank Vol	ume	119 Gallons (450 L)					
Thermal	Efficiency (CU199)	97%					
Dimensions (Assembled) in. (mm)		W 38.81 x H 69.60 x D 40.96 (W 985.8 x H 1,767.8 x D 1,040.4)					
t	Rack	220 lbs (100 kg) (with two tankless water heaters)					
Weight	Tank	310 lbs (141 kg)					
	Combined	530 lbs (240 kg)					
Sound Level		49 dB					
	Normal	265 W					
la (Standby	44 W					
Electrical (CU199)	Freeze Protection	148 W					
	Max Current	5.5 Amps					
	Fuse	Tankless Engine: 10 Amps, System Controller 10 Amps					
Temperature		Minimum: 98° F (37° C) Default Maximum: 185° F (85° C) Default					
By-Pass I	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.					
Category		Category IV					
Ignition System		Direct Electronic Ignition					
Electronic Connections		Appliance: AC 120 Volts, 60Hz. Integrated Temperature Controller: DC 12 Volts (Digital)					
Water Supply Pressure		Maximum: 150 PSI					
Connections		Gas Supply Inlet: 1-1/2 in. (19 mm) MNPT Hot Water Outlet: 1-1/2 in. (19 mm) MNPT Cold Water Inlet: 1-1/2 in. (19 mm) MNPT					

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

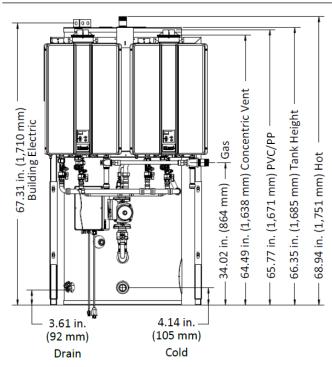
DIMENSIONS





* Temperature and Pressure Relief Valve





RECOVERY CAPACITIES

U.S. Gallons / HR Liters / HR at Temperature Rise Indicated													
Tank Capacity	۴F	30	40	50	60	70	80	90	100	110	120	130	140
	°C	17	22	28	33	39	44	50	56	61	67	72	78
119 U.S. Gal.	GPH	1,528	1,147	917	764	655	573	510	459	417	382	353	328
450 Liters	LPH	5,784	4,342	3,471	2,892	2,479	2,169	1,931	1,738	1,579	1,446	1,336	1,242

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