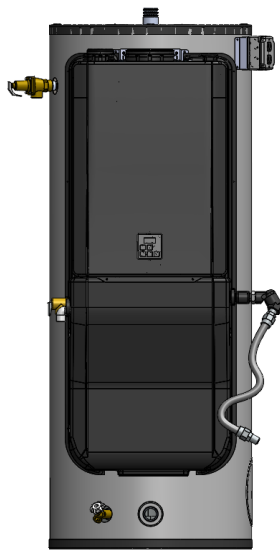
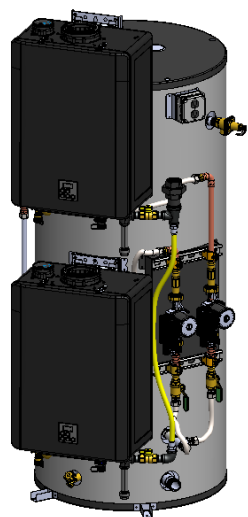


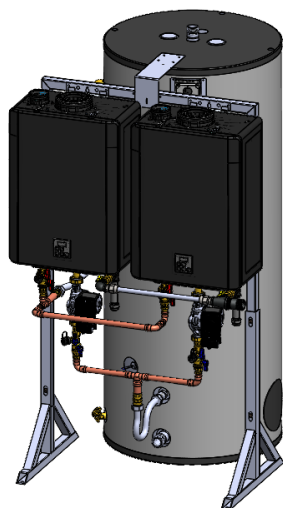
Demand Duo™
119 Gallon Model



Demand Duo™
80 Gallon Model



Demand Duo™ 2
Vertical Double Units



Demand Duo™ 2
Horizontal Double Units

OPTIONAL ACCESSORIES

Room Air Screen, Condensate Neutralizer, Scale Cutter, Control-R™ Wi-Fi Module, Wireless Accessories, and many more. Visit rinnai.us or rinnai.ca for a complete list of accessories.

EASE OF INSTALLATION AND SERVICEABILITY

- Wi-Fi Technology for Remote Monitoring and Management
- Simple Gas Conversion



CERTIFIED TO ANSI Z21.10.3 — CSA 4.3

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

Installation Type	Internal (Indoor) Commercial Applications
Model Numbers	CHS398100HCXViN, CHS320100HCXViN, CHS398100HCXiN, CHS199100HCXiN, CHS160100HCXiN, CHS19980HCXiN, CHS16080HCXiN
Approved Gas Types	Natural Gas and Propane
Maximum System Gas Consumption	Up to 398,000 BTU/h (See specific models on following pages)
Thermal Efficiency	 Up to 96%
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: MCC-601
Certifications	AHRI, ANSI Z21.10.3, CSA 4.3, and Energy Star® (Tankless Water Heater)
Storage Tank	• 2" Eco-friendly foam insulation • Glass-lined inner tank • 1-1/2" MNPT dielectric hot and cold connections • Pre-installed temperature & Pressure relief valve • Brass drain valve • Dual magnesium anode rods • Hand hole clean-out
Warranty	• Heat Exchanger: 8 years or 12,000 operation hours, whichever occurs first • Tank: 6 years • All Other Parts and Components: 5 Years • Reasonable Labor: 1 Year (Refer to the Installation and Operation Manual for further warranty information.)
Safety Devices	Flame Failure - Flame Rod, Boiling Protection, Combustion Fan RPM Check, Over Current - Glass Fuse, Remaining Flame (OHS) and Automatic Freeze Protection
Additional Features	Complies with South Coast Air Quality Management District 14 ng/J or 20 ppm NOx Emission Levels. Ultra Low NOx
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

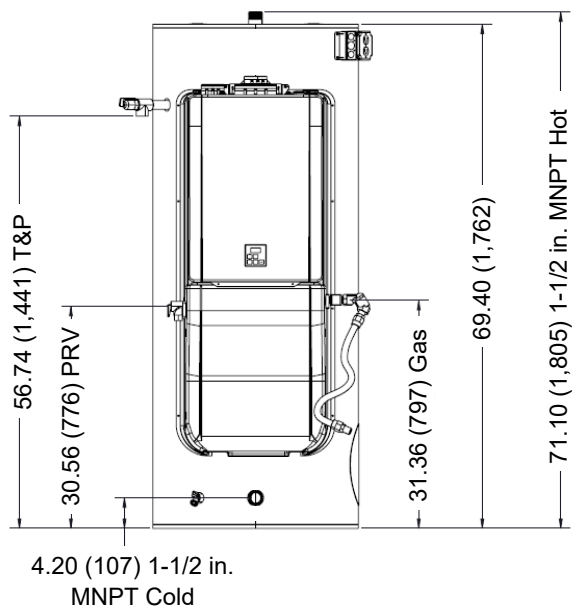
Vent Sizes	2 in. (51 mm)	3 in. (76 mm)
Vent Lengths	75 ft (23 m)	150 ft (46 m)

Concentric

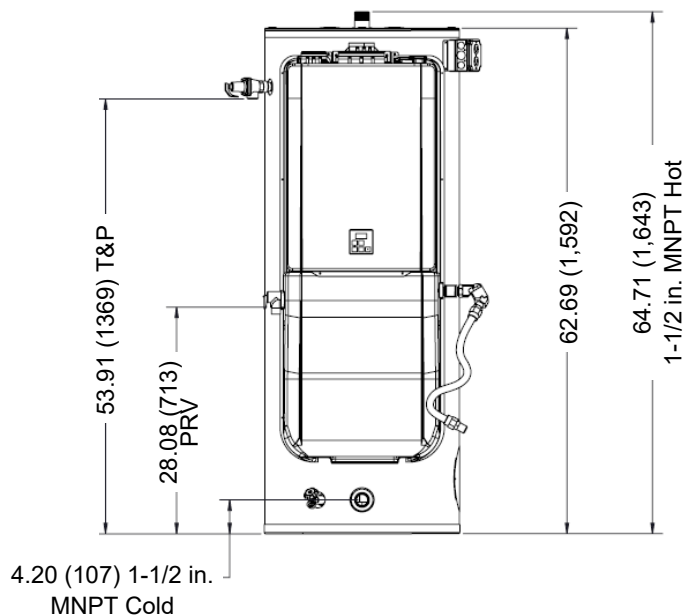
Vent Sizes	2 in. X 4 in.	3 in. X 5 in.
Vent Lengths	75 ft (20 m)	150 ft (46 m)

Note: Sizes and lengths apply to single engine or non-common vent double engine systems.

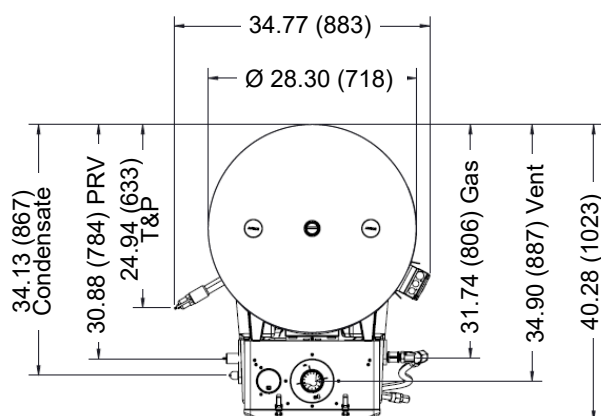
FRONT (119 Gallon Models)



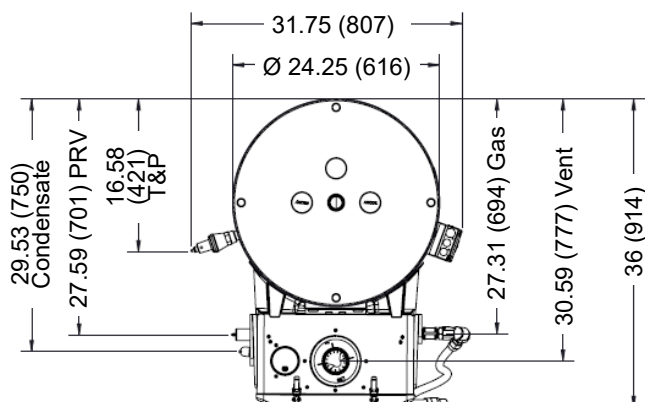
FRONT (80 Gallon Models)



TOP (119 Gallon Models)



TOP (80 Gallon Models)



RECOVERY CAPACITIES

Product Number	Gas	Input		U.S. Gallon / HR Liters / HR at Temperature Rise Indicated													
				Tank Capacity	°F	30	40	50	60	70	80	90	100	110	120	130	140
		BTU/HR	kW		°C	17	22	28	33	39	44	50	56	61	67	72	78
CHS199100HCXi	NG/LP	199,000	58	119 Gals.	GPH	780	585	468	390	334	292	260	234	213	195	180	167
				450 Liters	LPH	2,953	2,214	1,771	1,476	1,264	1,105	984	886	806	738	681	632
CHS160100HCXi	NG/LP	160,000	47	119 Gals.	GPH	627	470	376	314	269	235	209	188	171	157	145	134
				450 Liters	LPH	2,374	1,780	1,424	1,187	1,017	890	791	712	647	593	548	509
CHS19980HCXi	NG/LP	199,000	58	80 Gals.	GPH	780	585	468	390	334	292	260	234	213	195	180	167
				303 Liters	LPH	2,953	2,214	1,771	1,476	1,264	1,105	984	886	806	738	681	632
CHS16080HCXi	NG/LP	160,000	47	80 Gals.	GPH	627	470	376	314	269	235	209	188	171	157	145	134
				303 Liters	LPH	2,374	1,780	1,424	1,187	1,017	890	791	712	647	593	548	509