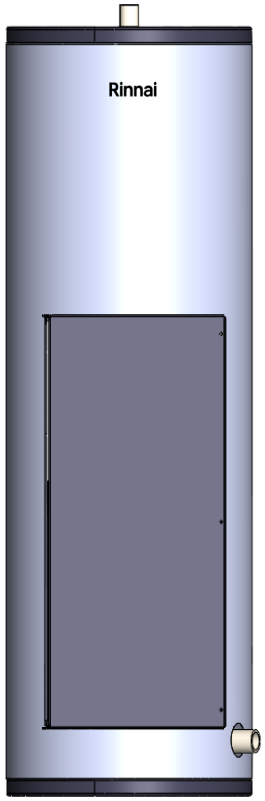
Rinnai Commercial Electric Tank Water Heater



CERTIFIED TO UL 1453

COMMERCIAL ELECTRIC WATER HEATER STORAGE TANK	
Installation Type	Internal (Indoor) Commercial Applications
Electrical	Maximum System Electrical Consumption: Up to 36 kW (See specific models on following pages)
Standard Voltage	208V/240V/277V/480V Single-Phase Can be field converted to 3-phase.
Storage Tank	• 2 in. (51 mm) Eco-friendly foam insulation • Glass-lined inner tank • 1-1/2 in. MNPT dielectric hot and cold connections • Brass drain valve. Dual magnesium anode rods
Efficiency	The water heater models shown below meet or surpass thermal efficiency and standby loss requirements set by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) standards, as part of the Energy Policy Act (Epact), a federal law that mandates energy efficiency for various appliances.
Certifications	UL 1453
Safety Devices	• Hi-Limit Reset Therm-O-Disc 66T 4401301202 • T&P Relief Valve: ANSI Z21.22 and ASME approved, 150 PSI, 210°F (99°C).
Warranty	• Tank: 3 years • All Other Parts and Components: 1 Year • Reasonable Labor: 1 Year (Refer to the Installation and Operation Manual for full warranty information)

MODEL NUMBERS				
	208 Volt	**240 Volt**	**277 Volt**	**480 Volt**
50 GALLON	RCET5012V208	RCET5012	RCET5012V277	RCET5012V480
	RCET5013V208	RCET5013V240	RCET5013V277	RCET5013V480
	RCET5015V208	RCET5015V240	RCET5015V277	RCET5015V480
	RCET5018V208	RCET5018	RCET5018V277	RCET5018V480
	RCET5024V208	RCET5024V240	RCET5024V277	RCET5024V480
	RCET5027V208	RCET5027V240	RCET5027V277	RCET5027V480
	RCET5030V208	RCET5030V240	RCET5030V277	RCET5030V480
		RCET5036V240	RCET5036V277	RCET5036V480
80 GALLON	RCET8012V208	RCET8012	RCET8012V277	RCET8012V480
	RCET8013V208	RCET8013V240	RCET8013V277	RCET8013V480
	RCET8015V208	RCET8015V240	RCET8015V277	RCET8015V480
	RCET8018V208	RCET8018	RCET8018V277	RCET8018V480
	RCET8024V208	RCET8024V240	RCET8024V277	RCET8024V480
	RCET8027V208	RCET8027V240	RCET8027V277	RCET8027V480
	RCET8030V208	RCET8030V240	RCET8030V277	RCET8030V480
		RCET8036V240	RCET8036V277	RCET8036V480

TECHNICAL SPECIFICATIONS (SINGLE UNITS)

Electrical Consumption and Tank Capacity

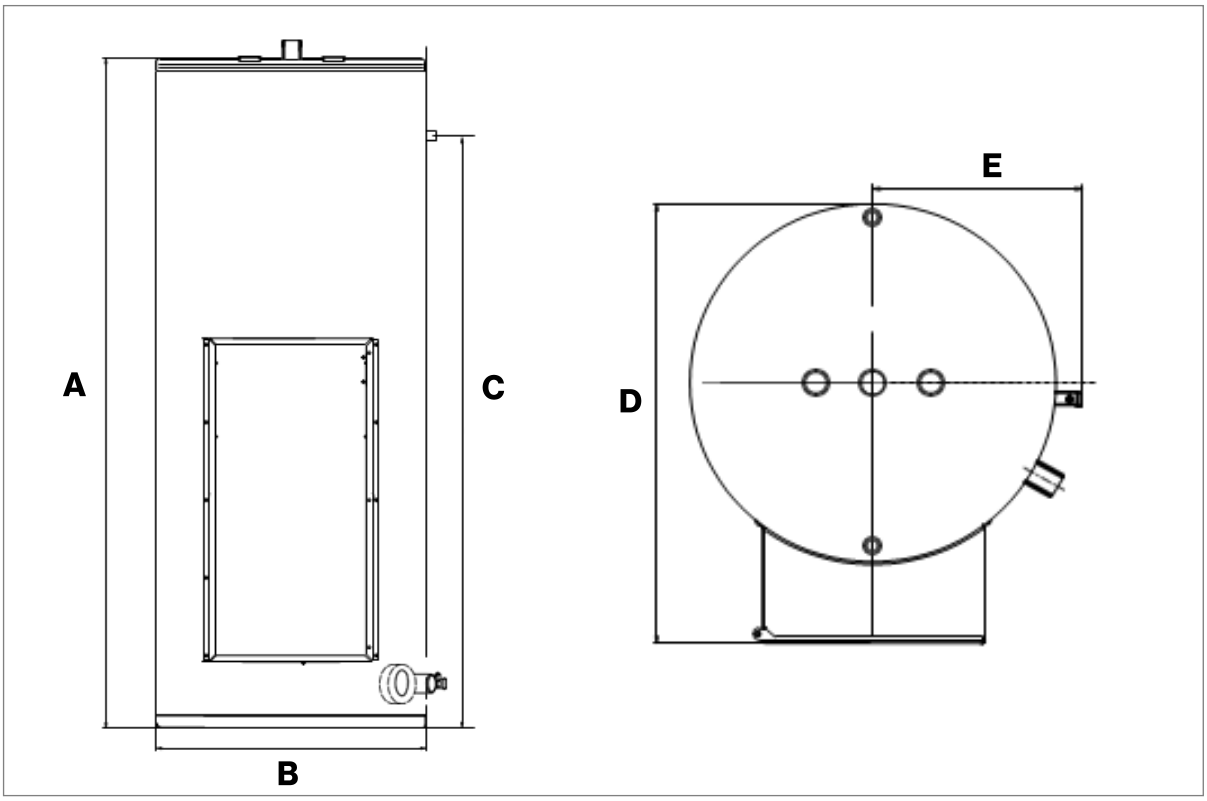
kW Input	Model Numbers Tank Capacity in Gallons		Number of Elements	Element Wattage	Full Load Current in Amperes						
					Single Phase				Three Phase		
	50	80			208V	240V	277V	480V	208V	240V	480V
12.3	RCET5012	RCET8012	3	4,100	59	51	44	26	34	30	15
13.5	RCET5013	RCET8013	3	4,500	65	56	49	28	37	32	16
15	RCET5015	RCET8015	3	5,000	72	63	54	31	42	36	18
18	RCET5018	RCET8018	6	3,000	87	75	65	38	50	43	22
24	RCET5024	RCET8024	6	4,000	115	100	87	50	67	58	29
27	RCET5027	RCET8027	6	4,500	130	113	98	56	75	65	32
30	RCET5030	RCET8030	6	5,000	144	125	108	63	83	72	36
36	RCET5036	RCET8036	6	6,000	N/A	150	130	75	N/A	87	43

Recovery Capacities

RECOVERY CAPACITIES													
U.S. Gallons/Hour Liters/Hour at Temperature Rise Indicated													
Input (kW)	Equivalent BTU/HR	Units	40°F (22°C)	50°F (28°C)	60°F (33°C)	70°F (39°C)	80°F (45°C)	90°F (50°C)	100°F (56°C)	110°F (61°C)	120°F (67°C)	130°F (72°C)	140°F (78°C)
12.3	41,980	GPH	124	99	83	71	62	55	50	45	41	38	35
		LPH	470	376	313	268	235	209	188	171	157	145	134
13.5	46,076	GPH	138	111	92	79	69	62	55	50	46	43	40
		LPH	523	419	349	299	262	233	209	190	174	161	150
15	51,195	GPH	154	123	102	88	77	68	61	56	51	47	44
		LPH	582	465	388	332	291	258	233	211	194	177	166
18	61,434	GPH	186	149	124	106	93	83	74	68	62	57	53
		LPH	705	564	470	403	352	313	282	256	235	217	201
24	81,912	GPH	246	197	164	140	123	109	98	90	82	76	70
		LPH	930	744	620	532	465	414	372	338	310	286	266
27	92,151	GPH	276	221	185	158	138	123	111	101	92	85	79
		LPH	1045	836	700	598	522	466	420	382	348	322	299
30	102,390	GPH	307	246	205	176	154	137	123	112	102	95	88
		LPH	1163	930	775	665	582	517	465	423	388	358	332
36	122,868	GPH	369	295	246	211	184	164	148	134	123	113	105
		LPH	1396	1117	930	798	698	620	560	508	465	429	399

[1] First Hour Delivery Rating is a theoretical calculation based on 70% usable tank capacity (Tank Capacity x 0.70 + (recovery) = First Hour Delivery Rating)

DIMENSIONS (SINGLE UNITS)



Model	Tank Capacity		A Tank Height	B Tank Diameter	C PRV Height	D Maximum Depth	E	Inlet/ Outlet (NPT)	Approx. Shipping Weight	
	Gallon	Liter						Inches	Lbs	kG
RCET50XX	50	189	58.1 in. (1476 mm)	21.5 in. (546 mm)	49 in. (1245 mm)	27.25 in. (692 mm)	16.5 in. (419 mm)	1-1/2	203	92
RCET80XX	80	302	64.25 in. (1632 mm)	25.28 in. (642 mm)	53.07 in. (1348 mm)	31.02 in. (788 mm)	18.4 in. (467 mm)	1-1/2	252	114

PROJECT SUBMITTAL INFORMATION

The water heater(s) shall be a Rinnai Commercial Electric Tank Water Heater (RCET) model number _____ , with a storage capacity of not less than _____ Gallons (_____ Liters), a minimum kW input of _____ kW and a minimum recovery rate of _____ GPH at a 100° temperature rise. Tank shall have a standard working pressure rating of 150 PSI and be completely assembled. The tank shall have 2" (51 mm) eco-friendly foam insulation with dual magnesium anode rods, brass drain valve, and 1.5 inch MNPT dielectric hot and cold connections.

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