



The new degree of comfort.™



Commercial Electric
Heavy Duty Water Heaters

Immersion EG Series Heavy Duty electric commercial water heaters are available in 50 through 120 gallon capacities

Features & Benefits

- 50, 85 and 120 gallon model can be shipped to your location in just a few days
- Ideal for general commercial use and point-of-use applications like eyewash stations, or used as a booster
- Inputs: 6 through 54 kW
- Voltages: 208 or 240 VAC in either single phase or 3-phase; 600 VAC single phase
- Element wattages: 2000, 3000, 4000, 5000 and 6000 in the 3 voltages
- Choose 3, 6 or 9 element models for your specific application
- Elements are Lifeguard™ stainless steel, screw-in type that resist burn out and corrosion
- Two anode rods are installed to ensure long life and corrosion resistance

Efficiency

- 98% thermal efficiency
- Thick foam insulation for minimal standby heat loss

Performance

- Recovery rate: Up to 223 gallons GPH at a 100 degree rise
- 190° F maximum delivered temperature

Capacity & Shipping Weight

- 50 Gal/270 lbs.
- 85 Gal/350 lbs.
- 120 Gal/430 lbs.

Easy Installation & Service

- Control box is located at the front of unit for easy wiring during installation – Multiple knockout holes accommodate a variety of conduit sizes
- **Exclusive!** System Sentinal™ provides a diagnostic panel with LEDs that correspond to the number, location and status of each element
- **Exclusive!** Full-port, full-flow, brass drain valve for faster draining
- Minimum distance to combustibles is zero inches from jacket and 18 inches from access door
- All models approved for installation on combustible flooring

Plus

- Temperature and pressure relief valve at side on all models
- Water connections: hot and cold water inlets are 1-1/2" NPT dielectric nipples on all models

Warranty

3-Year limited tank warranty, 1-year limited parts warranty

See Commercial Warranty Certificate for complete information.

Efficiency | These models have been tested according to DOE test procedures, and exceed the minimum energy factor requirements of current ASHRAE 90.1b Standard (Part of the federally mandated Energy Policy Act (EPAct)).

Safety and Construction | Safety and Construction: These products are design certified by CSA to meet CAN/CSA C22.2 No. 110-M90 construction and test standard. **Certified for a 150 PSI Maximum Working Pressure.**



Rheem-Ruud Heavy Duty
50, 85 & 120-Gallon
Capacities
ASME Construction Option
3-Year Limited Warranty
Electric



(With
Optional
Seal Kit)



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ELECTRICAL CHARACTERISTICS

INPUT KW	NO. OF ELEMENTS	ELEM- ENT WAT- TAGE	FULL LOAD CURRENT IN AMPERES					Optional Fuse Models with Suffix "F" Number of Fuses 30A Class G	208/240V	600V	Number of Contactors		IMMERSION THERMOSTATS		
			208V		240V		600V						Number of Thermostats	Optional Models – Staged Models with Suffix "F"	
			Phase		Phase		Phase							Number of Thermostats	KW Step Size
			1	3	1	3	3								
6	3	2000	29	17	25	14	N/A	6	N/A		2	N/A	1	N/A ONE THERMOSTAT STANDARD	6
9	3	3000	43	25	38	22	9	6	3		2	1	1		9
12	3	4000	58	33	50	29	12	6	3		2	1	1		12
15	3	5000	72	42	63	36	15	6	3		2	1	1		15
18	3	6000	87	50	75	43	18	6	3		2	1	1		18
24	6	4000	116	67	100	58	23	12	6		4	2	1	2	12
30	6	5000	144	84	125	73	29	12	6		4	2	1	2	15
36	6	6000	173	100	150	87	35	12	6		4	2	1	2	18
45	9	5000	217	125	188	109	43	18	9		6	3	1	3	15
54	9	6000	260	150	225	130	52	18	9		6	3	1	3	18

Thermostat Staging – On all immersion thermostat models, 24 kW and above (18 kW for 208V), additional thermostats can be provided so that the maximum element input will not exceed 18 kW - 27 kW per step. Temperature differential between steps can be set as desired.

RECOVERY CAPACITIES Recovery in U.S. Gallons/Hr. (GPH) and Liters/Hr. (LPH) at Various Temperature Rises

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)
6	20,473	GPH	62	50	41	35	31	28	25	23	21	19	18
		LPH	235	188	157	134	117	104	94	85	78	72	67
9	30,709	GPH	93	74	62	53	47	41	37	34	31	29	27
		LPH	352	282	235	201	176	157	141	128	117	108	101
12	40,946	GPH	124	99	83	71	62	55	50	45	41	38	35
		LPH	470	376	313	268	235	209	188	171	157	145	134
15	51,183	GPH	155	124	103	89	78	69	62	56	52	48	44
		LPH	587	470	391	335	294	261	235	213	196	181	168
18	61,420	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	81,893	GPH	248	199	165	142	124	110	99	90	83	76	71
		LPH	939	751	626	537	470	417	376	342	313	289	268
30	102,366	GPH	310	248	207	177	155	138	124	113	103	95	89
		LPH	1174	939	783	671	587	522	470	427	391	361	335
36	122,839	GPH	372	298	248	213	186	165	149	135	124	115	106
		LPH	1409	1127	939	805	705	626	564	512	470	434	403
45	153,549	GPH	465	372	310	266	233	207	186	169	155	143	133
		LPH	1761	1409	1174	1006	881	783	705	640	587	542	503
54	184,259	GPH	558	447	372	319	279	248	223	203	186	172	160
		LPH	2114	1691	1409	1208	1057	939	845	769	705	650	604

WATER TEMPERATURE RATINGS						
MODEL NUMBER	TANK CAPACITY		THERMOSTAT TYPE	MINIMUM DELIVERED TEMPERATURE	MAXIMUM DELIVERED TEMPERATURE	HIGH TEMPERATURE LIMIT
	GALLONS	LITERS				
EG50	50	189	Immersion	90°F	190°F	200°F
				32.2°C	87.8°C	93.3°C
EG85	85	322	Immersion	90°F	190°F	200°F
				32.2°C	87.8°C	93.3°C
EG120	119.9	454	Immersion	90°F	190°F	200°F
				32.2°C	87.8°C	93.3°C

MODEL NUMBERS			
INPUT KW	IMMERSION THERMOSTATS		
	TANK CAPACITY IN GALLONS		
	50	85	120
6	EG50-6-G	EG85-6-G	EG120-6-G
9	EG50-9-G	EG85-9-G	EG120-9-G
12	EG50-12-G	EG85-12-G	EG120-12-G
15	EG50-15-G	EG85-15-G	EG120-15-G
18	EG50-18-G	EG85-18-G	EG120-18-G
24	EG50-24-G	EG85-24-G	EG120-24-G
30	EG50-30-G	EG85-30-G	EG120-30-G
36	EG50-36-G	EG85-36-G	EG120-36-G
45	EG50-45-G	EG85-45-G	EG120-45-G
54	EG50-54-G	EG85-54-G	EG120-54-G

Optional Thermostat Staging – E models (Immersion thermostat) 24 kW and above, may be ordered with additional thermostat(s) for staging. Add “S” after fuse type designation.

Optional Integral Fusing – all models have integral fusing for each element.

Anode Rods – two (2) magnesium anodes are installed in each tank to ensure long life and corrosion resistance.

Temperature and Pressure Relief Valve – CSA/ASME rated and factory installed.

Electrical Connections – pre-wired, accessible control box with multiple knock-outs on side in size selections to match the National Electric Code. Sizes range from 1/2" to 2-1/2". A grounding screw is provided for attaching an equipment grounding conductor.

Terminal Block – all models are equipped with U.L. listed terminal blocks for simplicity of installation. The terminal block will accept either copper or aluminum field connect wire.

240 Volt Control Circuit – all units are furnished with a fused 240 volt control circuit. All controls (thermostats, high temperature limit, etc.) are operated off of this basic 240 volt control circuit.

Water Connections – hot outlet and cold inlet for the 50, 85 & 120 gallon capacity models are 1-1/2" NPT dielectric nipples which prevent excessive turbulence of heated water and results in optimum tank draw.



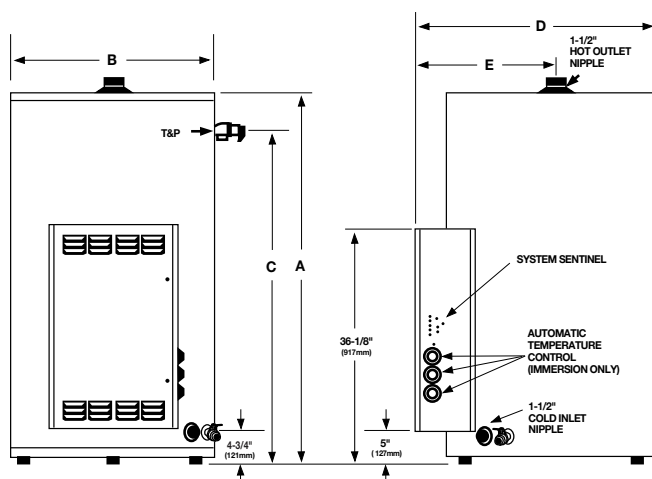
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Water

Commercial Electric
Heavy Duty Water Heaters

DIMENSIONAL INFORMATION All dimensions shown in English and Metric							
MODEL NUMBER	UNITS	A	B	C	D	E	APPROXIMATE SHIPPING WEIGHT
EG50	inches	43-5/8	26-1/4	36-1/4	32	19	270 lbs.
	mm	1108	667	920	813	483	122 kgs.
EG85	inches	57-11/16	28-1/4	49-1/2	34	20	350 lbs.
	mm	1465	718	1258	864	508	159 kgs.
EG120	inches	67-5/8	30-1/4	58-3/4	36	21	430 lbs.
	mm	1718	768	1493	914	533	185 kgs.



Recommended Specifications (for trade reference only)

Water heater(s) shall be model _____, manufactured by Rheem-Ruud, having electrical input of _____ kW and a recovery rate of _____ GPH at a 100°F temperature rise. Water heater(s) shall have a storage capacity of _____ gallons. Water heater(s) shall have the CSA seal of certification and be factory equipped with an CSA/ASME rated temperature and pressure relief valve. Tank(s) shall have a double coating of high temperature porcelain enamel and furnished with magnesium anode rods rigidly supported. Water heater(s) shall meet or exceed the standby loss requirements of ASHRAE. Tank(s) shall have

a working pressure of 150 psi, and shall be completely assembled. Water heater(s) shall be equipped with stainless steel "screw-in" type elements. Tank shall be insulated with thick polyurethane foam insulation. Water heater(s) shall be constructed with a System Sentinel element diagnostic panel utilizing light emitting diodes. Each LED will correspond to the number and location of the heating elements and monitor their on-off function. Water heater(s) shall be provided with magnetic contactors, 240 volt control circuit transformer and immersion thermostat(s) with manual reset high limit control. 1-1/2" inlet and outlet water connections for 50 through 120 gallon models shall be provided. Water heater(s) shall be covered by a three year limited warranty against tank leaks.

In keeping with its policy of continuous progress and product improvement, Rheem reserves the right to make changes without notice.

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