Light-Duty Water Heaters

Light-duty commercial electric line designed specifically for any application needing moderate amounts of hot water

Features & Benefits

Our family of light-duty electric water heaters come in 30, 40, 50, 65, 80 and 120 gallon models. They are available in 3kW through 12kW and in 208, 240, 277 and 480 voltages with a maximum temperature setting of 170 degrees. These units are suited for a wide variety of applications such as retail stores and small offices. Short models are available.

Long Life Tank Design

Proprietary steel formulation with a unique coat of high temperature porcelain enamel maximizes corrosion resistance of the tank. Our R-Tech anode rod provides advanced technology and equalizes aggressive water action. This prolongs the effective life of the anode rod and in turn, the life of the tank.

Long Life Heating Elements

Our patented resistor elements are designed with a specially treated, double layer of magnesium oxide and copper to resist corrosion. Replacement elements screw in easily.

Wiring Options

Simultaneous and non-simultaneous wiring, single phase and three phase are available.

Efficient Design

2-1/2" of rigid polyurethane foam insulation provides superior insulating qualities resulting in reduced operating costs with an Energy Factor of .91-.95.

Automatic Temperature Control

A surface mounted thermostat automatically cycles on and off to maintain the water temperature at a desired preset level.

Durable Brass Drain Valve

Factory installed brass drain valve allows for faster draining and servicing.

Warranty

3-Year limited tank 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 ASHRAE (Part of the Federally mandated Energy Policy Act (EPact)).

Also exceeds energy efficiency codes of all states including California Energy Commission (CEC).

Safety and Construction | These products are design certified by Underwriters Laboratories (UL) to meet UL standard 174 as electric storage tank water heaters. All models are North Carolina and Massachusetts Code compliant. **Certified for 150 PSI maximum working pressure**.

Ruud Light-Duty
30- to 120-Gallon Capacities
3kW – 12kW
208, 240, 277, 480 Voltages

Recommended Specifications (for trade reference only)

Water heater(s) shall be model _____, manufactured by 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 UL seal of certification and be factory equipped with an CSA/ASME rated temperature and pressure relief valve. Tank(s) interior shall be coated with a high temperature porcelain enamel and furnished with an R-Tech resistored magnesium anode rod rigidly supported. Water heater(s) shall meet or exceed the energy factor requirements of ASHRAE. Tanks shall have a working pressure rating of 150 psi, and shall be completely assembled. Water heater(s) shall be equipped with copper, resistored, “screw-in” type elements. Tank shall be insulated with 21/2" of rigid polyurethane foam insulation. Water heater(s) shall be equipped with surface mounted thermostats each with an integral, manual reset, high limit control. Water heater(s) shall be covered by a three year limited warranty against tank leaks.

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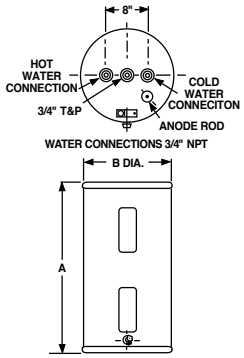
DIMENSIONAL INFORMATION (All dimensions shown in English and Metric)

MODEL NUMBER	MIN. WATTS	MAX WATTS	TANK CAPACITY		A		B		APPROX. SHIPPING WT.	
			GALLONS	LITERS	inches	*mm*	inches	*mm*	lbs.	*kgs.*
ELDS30	3,000	12,000	30	*114*	29-1/2	*750*	22-1/4	*565*	105	*48*
ELDS40	3,000	12,000	38	*144*	31-1/2	*800*	23	*584*	135	*61*
ELDS52	3,000	12,000	47	*178*	32-1/2	*813*	26-1/4	*667*	150	*68*
ELD30	3,000	9,000	30	*114*	45-1/2	*1156*	17-3/4	*451*	90	*41*
ELD40	3,000	12,000	40	*151*	46-1/4	*1175*	22-1/4	*565*	108	*49*
ELD52	3,000	12,000	50	*189*	57	*1448*	22-1/4	*565*	127	*58*
ELD66	3,000	12,000	65	*246*	58-3/4	*1492*	23	*584*	170	*77*
ELD80	3,000	12,000	80	*303*	59	*1499*	24-1/2	*622*	200	*91*
ELD120	3,000	12,000	119.9	*454*	62-1/2	*1586*	28-1/4	*718*	330	*150*

WATER TEMPERATURE RATINGS	Thermostat Type: Surface Mounted	Minimum Temperature: 110°F *(43.3°C)*	Maximum Temperature: 170°F *(76.7°C)*	High Temperature Limit: 190°F *(87.8°C)*



PRODUCT AVAILABILITY

ELEMENT WATTAGE (UPPER/LOWER)	NON-SIMULTANEOUS WIRING				SIMULTANEOUS WIRING							
	2 OR 3 WIRE CONFIGURATION SINGLE OR THREE PHASE OPERATION†				2 WIRE CONFIGURATION SINGLE PHASE OPERATION ONLY				4 WIRE CONFIGURATION SINGLE OR THREE PHASE OPERATION†			
	208V	240V	277V	480V	208V	240V	277V	480V	208V	240V	277V	480V
3,000/3,000	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
4,000/4,000	Y	Y	Y	Y	N/A	N/A	Y	Y	Y	Y	Y	Y
4,500/4,500	Y	Y	Y	Y	N/A	N/A	N/A	Y	Y	Y	Y	Y
5,000/5,000	Y	Y	Y	Y	N/A	N/A	N/A	Y	Y	Y	Y	Y
6,000/6,000	Y	Y	Y	Y	N/A	N/A	N/A	Y	N/A	Y	Y	Y

ELECTRICAL CHARACTERISTICS

ELEMENT WATTAGE (Upper/Lower)	NON-SIMULTANEOUS WIRING				SIMULTANEOUS WIRING										
	SINGLE/THREE PHASE OPERATION† FULL LOAD CURRENT IN AMPERES (All Terminals)				2-WIRE SINGLE PHASE OPERATION FULL LOAD CURRENT IN AMPERES (All Terminals)				4-WIRE THREE PHASE OPERATION† FULL LOAD CURRENT IN AMPERES (Terminals L3 / Terminals L1 & L2)			4-WIRE SINGLE PHASE OPERATION FULL LOAD CURRENT IN AMPERES (All Terminals)			
	208V	240V	277V*	480V	208V	240V	277V	480V	208V	240V	480V	208V	240V	277V**	480V
3,000/3,000	14.4	12.5	10.8	6.3	28.8	25.0	21.7	12.5	25.0/14.4	21.7/12.5	10.8/6.3	28.8	25.0	10.8	12.5
4,000/4,000	19.2	16.7	14.4	8.3	N/A	N/A	28.9	16.7	33.3/19.2	28.9/16.7	14.4/8.3	38.5	33.3	14.4	16.6
4,500/4,500	21.6	18.8	16.2	9.4	N/A	N/A	N/A	18.8	37.5/21.6	32.5/18.8	16.2/9.4	43.3	37.5	16.2	18.8
5,000/5,000	24.0	20.8	18.1	10.4	N/A	N/A	N/A	20.8	41.7/24.0	36.1/20.8	18.0/10.4	48.1	41.7	18.1	20.8
6,000/6,000	28.8	25.0	21.7	12.5	N/A	N/A	N/A	25.0	50.0/28.8	43.3/25.0	21.7/12.5	57.6	50	21.7	28.0

* 277 Volt units are not available for three phase operation. ** 277 Volt units can be ordered in 4 wire simultaneous for single phase operation. † Unbalanced three phase.

RECOVERY CAPACITIES – Recovery in U.S. Gallons/Hr. (GPH) and Liters/Hr. (LPH) at various temperature rises.

ELEMENT WATTAGE (Upper/Lower)	NON-SIMULTANEOUS WIRING										SIMULTANEOUS WIRING									
	40°F *(22°C)*		60°F *(33°C)*		80°F *(45°C)*		100°F *(56°C)*		120°F *(67°C)*		40°F *(22°C)*		60°F *(33°C)*		80°F *(45°C)*		100°F *(56°C)*		120°F *(67°C)*	
	GPH	*LPH*	GPH	*LPH*	GPH	*LPH*	GPH	*LPH*	GPH	*LPH*	GPH	*LPH*	GPH	*LPH*	GPH	*LPH*	GPH	*LPH*	GPH	*LPH*
3,000/3,000	30	*115*	20	*77*	15	*58*	12	*46*	10	*38*	61	*230*	41	*153*	30	*115*	24	*92*	20	*77*
4,000/4,000	41	*153*	27	*102*	20	*77*	16	*61*	14	*51*	81	*307*	54	*205*	41	*153*	32	*123*	27	*102*
4,500/4,500	46	*173*	30	*115*	23	*86*	18	*69*	15	*58*	91	*345*	61	*230*	46	*173*	36	*138*	30	*115*
5,000/5,000	51	*192*	34	*128*	25	*96*	20	*77*	17	*64*	101	*384*	68	*256*	51	*192*	41	*153*	34	*128*
6,000/6,000	61	*230*	41	*153*	30	*115*	24	*92*	20	*77*	122	*460*	81	*307*	61	*230*	49	*184*	41	*153*

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

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