



## 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 through 119.9-gallon models. They are available in 3kW through 12kW and in 208, 240, 277 and 480 voltages. Maximum temperature on is greater than 180° F. 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. 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.

### 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 for commercial applications

See Warranty Certificate for complete information.

### NEW UL Approved Electric Conversion Kits

- Provides an easy way to convert standard models to different wattages, volt or phase depending on installation requirements
- Kits are designed for ELD(S) models in all gallon capacities
- All parts needed for the electric conversion are included with Ruud electric conversion kits
- Ruud electric conversion kits provide convenience for contractors, plumbers and installers which saves time and money

Consult factory for certification listing.

**Safety and Construction** | These products are design certified by Underwriters Laboratories (UL) to meet UL safety standards 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

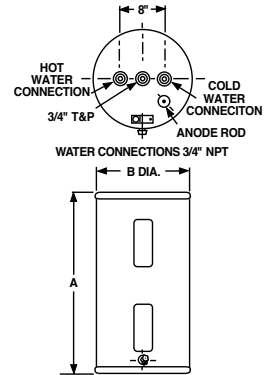


See specifications chart on back.

# Light-Duty Water Heaters



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	6
ELDS52	3,000	12,000	47	178	32-1/2	813	26-1/4	667	150	6
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	9
ELD120	3,000	12,000	119.9	454	62-1/2	1586	28-1/4	718	330	150



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	Y
4,000/4,000	Y	Y	Y	Y	N/A	N/A	Y	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	Y
5,000/5,000	Y	Y	Y	Y	N/A	N/A	N/A	Y	Y	Y	Y	Y	Y
6,000/6,000	Y	Y	Y	Y	N/A	N/A	N/A	Y	Y	Y	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	25.0

\* 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		60°F		80°F		100°F		120°F		40°F		60°F		80°F		100°F		120°F	
	(22°C)		(33°C)		(45°C)		(56°C)		(67°C)		(22°C)		(33°C)		(45°C)		(56°C)		(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

## 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 a 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 2-1/2" 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.

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