



## Light-Duty Commercial Electric Water Heaters

*With easy field-level conversion for multiple light duty applications*

### Flexible design for a variety of light duty applications

- 30 - 119.9-Gallon models
- 208/240/277/480 Voltages available on all models
- 30 to 50-Gallon models available in 3kW-12 kW, tall and short
- 66, 80 and 119.9-Gallon models only available in 12.1 kW
- Factory shipped in simultaneous configuration

FEATURES & BENEFITS	
<b>Terminal Block</b>	Easy to convert standard models from simultaneous to non-simultaneous, single phase to three phase
	Field convertible to meet any light-duty application need
	Available on 30 - 119.9-gallon models
<b>Wiring Options</b>	Custom field level configuration based on application requirements
	Simultaneous and non-simultaneous wiring
	Single & three phase available
<b>Energy Efficient Design</b>	Reduces energy consumption & standby heat loss with 2-1/2" of rigid polyurethane foam insulation
<b>Designed for Long Life &amp; Top Performance</b>	Proprietary protective steel formulation with a unique coat of high temperature porcelain enamel
	Design maximizes corrosion resistance & life of anode rod
	Patented corrosion-resistant elements include double layer of magnesium oxide and copper to resist corrosion
	Durable factory-installed full flow brass drain valve
<b>Automatic Temperature Control</b>	Automatic Temperature Control - Surface mounted thermostat automatically cycles on and off to maintain desired water temperature
	170°F Maximum temperature setting
<b>Warranty</b>	3-year limited tank, upgradable to 5-years and a 1-year limited parts warranty*



Available in  
**Fused and Non-Fused**  
Configurations

**Ruud Light-Duty**  
30 to 119.9-Gallon Capacities  
208/240/277/480 Voltages  
3kW - 12.1 kW  
Electric



**All models come with a terminal block. Models with power requirements over 48 Amps come with a fused terminal block. See Electrical Characteristics Chart on Back.**

**Consult factory for certification listing.**

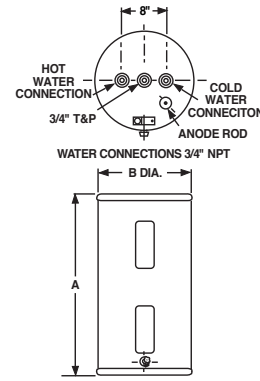
**Safety and Construction** | These products are design certified by Underwriters Laboratories (UL) to meet UL safety standards as electric storage tank water heaters. All models are North Carolina and Massachusetts Code compliant. **Certified for 150 PSI maximum working pressure.**

**See specifications chart on back.**

# Light-Duty Water Heaters



DIMENSIONAL INFORMATION (All dimensions shown in English and Metric)												FIRST HOUR DEL. G.P.H.	UNIFORM ENERGY FACTOR (UEF)	STL	
MODEL NUMBER	MIN. WATTS	MAX. WATTS	TANK CAPACITY (LISTED)		TANK CAPACITY (MEASURED)		A		B		APPROX. SHIPPING WT.				
			GAL.	LTR	GAL.	LTR	INCHES	MM	INCHES	MM	lbs.				kgs.
ELD30-(F)TB	3,000	12,000	30	114	27	102	47-1/2	1207	19	483	125	57	46	0.92	N/A
ELD40-(F)TB	3,000	12,000	40	151	36	136	48-1/4	1226	20-1/4	514	140	64	55	0.93	N/A
ELD52-(F)TB	3,000	12,000	50	189	45	170	58-5/8	1489	20-1/4	514	155	70	63	0.93	N/A
ELD66-(F)TB	12,100	12,100	65	246	58.5	221	59-3/8	1508	22-1/4	565	185	84	N/A	N/A	0.76
ELD80-(F)TB	12,100	12,100	80	303	72	273	59-5/8	1514	23-3/4	603	220	100	N/A	N/A	0.68
ELD120-(F)TB	12,100	12,100	119.9	454	108	409	62-7/8	1597	28-1/4	718	335	152	N/A	N/A	0.55
ELDS30-(F)TB	3,000	12,000	28	106	25	95	30	762	23	584	130	59	43	0.92	N/A
ELDS40-(F)TB	3,000	12,000	36	136	33	125	31-1/2	800	24-1/4	616	150	68	46	0.92	N/A
ELDS52-(F)TB	3,000	12,000	47	178	43	163	32	813	26-1/4	667	180	82	57	0.93	N/A



- (F): Fused Models
- Fused or Non-Fused, Fused if > 48 Amps, If Fused TB replaced with FTB

PRODUCT AVAILABILITY		Electric Light Duty models are available with terminal block in both fused and non-fused configurations. Fused configuration is Standard in all water heaters with power requirements over 48 Amps.																					
SIM OR NON-SIM	SIZE	208V				240V				277V				480V									
		3/3	4/4	4.5/4.5	5/5	6/6	3/3	4/4	4.5/4.5	5/5	6/6	3/3	4/4	4.5/4.5	5/5	6/6	3/3	4/4	4.5/4.5	5/5	6/6		
	30	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	40	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	50	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	66																						✓
	80																						✓
	120																						✓

• Terminal Block allows for conversions from Simultaneous element usage to non-Simultaneous for maximum energy savings. • All models are factory shipped with sim configuration.

ELECTRICAL CHARACTERISTICS																	
ELEMENT WATTAGE	ELEMENT WATTAGE	NON-SIMULTANEOUS WIRING				SIMULTANEOUS WIRING											
		SINGLE/THREE PHASE OPERATION FULL LOAD CURRENT IN AMPERES				2-WIRE SINGLE PHASE OPERATION FULL LOAD CURRENT IN AMPERES				4-WIRE THREE PHASE OPERATION FULL LOAD CURRENT IN AMPERES				4-WIRE SINGLE PHASE OPERATION FULL LOAD CURRENT IN AMPERES (DOUBLE BRANCH CIRCUIT)			
UPPER	LOWER	TERMINALS L1 AND L2 FOR SINGLE PHASE, L1, L2, AND T2 FOR 3 PHASE				TERMINALS L1 AND L2				THERE'S NO 4 WIRE 3 PHASE THIS IS 3 PHASE SIM TERMINALS L1, L2, AND T2				TERMINALS L1 AND L2 FIRST CIRCUIT TERMINALS T1 AND T2 SECOND CIRCUIT			
		208	240	277	480	208	240	277	480	208	240	480	208	240	277	480	
3000	3000	14	13	11	6	29	25	22	13	29	25	13					
4000	4000	19	17	14	8	38	33	29	17	38	33	17					
4500	4500	22	19	16	9	43	38	32	19	43	38	19					
5000	5000	24	21	18	10	48	42	36	21	48	42	21					
6000	6000	29	25	22	13	58	50	43	25	58	50	25					
6050	6050					58	50	44	25	58	50	25					

SAME AS NON SIM, BUT THERE WILL BE TWO SETS OF INCOMING POWER. THIS IS THE FACTORY WIRING

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
3000/3000	30	115	20	77	15	58	12	46	10	38	61	230	41	153	30	115	24	92	20	77
4000/4000	41	153	27	102	20	77	16	61	14	51	81	307	54	205	41	153	32	123	27	102
4500/4500	46	173	30	115	23	86	18	69	15	58	91	345	61	230	46	173	36	138	30	115
5000/5000	51	192	34	128	25	96	20	77	17	64	101	384	68	256	51	192	41	153	34	128
6000/6000	61	230	41	153	30	115	24	92	20	77	122	460	81	307	61	230	49	184	41	153
6050/6050											122	460	81	307	61	230	49	184	41	153

Consult factory for certification requirements.

### 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.