

LIGHT DUTY

Commercial Electric Water Heaters

American Standard®
WATER HEATERS

www.americanstandardwaterheaters.com

Features

- **FLEXIBLE DESIGN TO MEET DIFFERENT REQUIREMENTS** – Units are shipped from factory standard Three-Phase, Non-Simultaneous and can be converted to Single-Phase and/or simultaneous operation in the field.
- **WIDE VARIETY OF CONVERSION KITS** to meet different wattage, voltage, and electric phase requirements.
- **DUAL HEATING ELEMENTS** – Screw in, INCOLOY, low wattage density to ensure more efficient operation and longer element life.
- **TURBULENCE-INDUCING DIP TUBE** engineered to reduce sediment build-up inside the tank.
- **FACTORY INSTALLED HEAT TRAPS** reduce standby heat loss caused by heat mitigation to water pipes.
- **FULLY AUTOMATIC SURFACE MOUNTED THERMOSTATS** for controlling the temperature, combined with a manual energy cut-off to prevent overheating.
- **FULL FLOW BRASS DRAIN VALVE** allows easy and quick drainage.
- **TEMPERATURE AND PRESSURE RELIEF VALVE** factory provided & installed.

Performance

- **UP TO 0.92 UEF**
- **HFO FOAM INSULATED** – 3 inch-thick, environmentally-friendly insulation foam.
- **MEETS OR EXCEEDS SAFETY AND EFFICIENCY REQUIREMENTS** – Listed to UL174, comply with NAECA requirements meets or exceeds ASHRAE Standard 90.1 b, National Appliance Energy Conservation Act, ANSI requirements, and tested in accordance with D.O.E. test procedures and all state energy efficiency standards.

Quality

- **HEAVY GAUGE STEEL TANK** for extra years of trouble-free service.
- **GLASS-LINED TANK** with DuraGlas™ and fired at 1600°F for optimum protection from the effects of corrosion.
- **MAGNESIUM ANODE RODS** to prolong tank life.
- **PRESSURE TESTED AT THE FACTORY** – All tanks are hydrostatically tested and certified at 300 PSI test pressure and 150 PSI working pressure.
- **4-YEAR LIMITED TANK WARRANTY** and 1-year limited parts warranty.

30, 40, & 50 Gallon Capacities
120 to 480 V Single or Three-Phase
3,000 to 12,000 Watts Power



SPECIFICATIONS AND APPLICATION DATA

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DIMENSIONS IN INCHES

MODEL NUMBER	NOMINAL CAPACITY [GAL]	DOE RATED CAPACITY [GAL]	STANDARD VOLTAGE	MAXIMUM WATTAGE	UNIFORM ENERGY FACTOR	JACKET DIAM A	HEIGHT TO			WATER SPREAD F	APPROX. SHIP WEIGHT [LBS]
							WATER CONNECTION B	TOP OF HEATER C	SIDE T&P D		
LDS-CE-30T	30	27	240	12,000	0.92	18 ¼	50	48	41 ¾	8	95
LDS-CE-40T	40	36	240	12,000	0.92	20 ¼	51 ¼	49 ¼	42 ½	8	113
LDS-CE-50T	50	45	240	12,000	0.92	22 ¼	50 ¾	48 ¾	41 ¾	8	129

SINGLE-PHASE FULL LOAD AMPERAGE DRAW

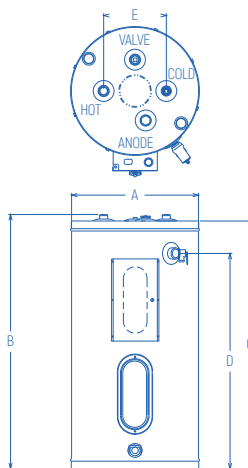
ELEMENT WATTAGE	120 V	208 V	240 V	277 V	480 V
1500	12.5	7.2	6.3	5.4	3.1
2000	16.7	9.6	8.3	7.2	4.2
2500	20.8	12.0	10.4	9.0	5.2
3000	25.0	14.4	12.5	10.8	6.3
3500	N/A	16.8	14.6	12.6	7.3
4000	N/A	19.2	16.7	14.4	8.3
4500	N/A	21.6	18.8	16.2	9.4
5000	N/A	24.0	20.8	18.1	10.4
5500	N/A	N/A	22.9	19.9	11.5
6000	N/A	28.8	25.0	21.7	12.5
7000	N/A	33.7	29.2	25.3	14.6
8000	N/A	38.5	33.3	28.9	16.7
9000	N/A	43.3	37.5	32.5	18.8
10000	N/A	48.1	41.7	36.1	20.8
11000	N/A	N/A	45.8	39.7	22.9
12000	N/A	N/A	50.0	43.3	25.0

THREE-PHASE FULL LOAD AMPERAGE DRAW

ELEMENT WATTAGE	INTERLOCKING OPERATION All Terminals L1, L2 and L3			SIMULTANEOUS OPERATION Terminal L3/Terminals L1 and L2		
	208 V	240 V	480 V	208 V	240 V	480 V
3000/3000	14.4	12.5	6.3	25.0/14.4	21.7/12.5	10.8/6.3
4000/4000	19.2	16.7	8.3	33.3/19.2	28.9/16.7	14.4/8.3
4500/4500	21.6	18.8	9.4	37.5/21.6	32.5/18.8	16.4/9.4
5000/5000	24.0	20.8	10.4	41.6/24.0	36.1/20.8	18/10.4
5500/5500	N/A	22.9	11.5	N/A	39.8/22.9	19.9/11.5
6000/6000	N/A	25	12.5	N/A	43.3/25.0	21.7/12.5

GPH RECOVERY AT VARIOUS TEMPERATURE RISES (°F)

WATTS	40°	50°	60°	70°	80°	90°	100°
3000	31	25	20	18	15	14	12
3500	36	29	24	20	18	16	14
4000	41	33	27	23	20	18	16
4500	46	37	31	26	23	20	18
5000	51	41	34	29	26	23	20
5500	56	45	38	32	28	25	23
6000	61	49	41	35	31	27	25
7000	72	57	48	41	36	32	29
8000	82	66	55	47	41	36	33
9000	92	74	61	53	46	41	37
10000	102	82	68	59	51	46	41
11000	113	90	75	64	56	50	45
12000	123	98	82	70	61	55	49



For floor to optional Top T & P Outlet see dimension "C"



SAMPLE SPECIFICATION

Commercial Electric Water Heaters shall be AMERICAN STANDARD WATER HEATERS model _____ having a storage capacity of _____ gallons, a rated input of KW _____ at _____ Volts, single phase 60 Cycle AC and a recovery rate of _____ gallons per hour at _____ °F temperature rise. Water heater tank interior shall be glass lined with Dura-Glas™, furnished with multiple anode rods and insulation shall be non-CFC foam. Water heater shall be tested and listed to Underwriters Laboratories standard UL 174. Tanks shall have 150 PSI working pressure and be equipped with a Magnesium anode. All internal surfaces of the heater(s) exposed to water shall be glasslined with Dura-Glas™ and fired at 1600° F. Electric heating elements shall be low watt density. Manufacturer shall supply ASME rated temperature and pressure relief valve. Meets standby loss requirements of the U. S. Department of Energy and ASHRAE 90.1B.