



LIGHT COMMERCIAL ELECTRIC WATER HEATERS

Light Commercial Electric Water Heaters are designed for light-commercial applications with intermittent hot-water needs.

- 3000 to 6100-watt elements, single-phase power.
- 66, 80, and 119-gallon capacities.

All Stainless Steel Tanks

Available in sizes 66, 80, and 119-gallon capacity.

Heating Elements

Low watt density Incoloy sheath and 316 flange elements mean lower surface temperatures to reduce scale buildup with more surface area to heat the water. Elements sizes from 3.0 to 6.1 KW. Maximum input 12.2 KW. Two 4.5 KW elements are standard.

Standard Voltages

The standard voltage is 240-Volt Single-Phase.

Top-Mounted Junction Box

Controls

Temperature control is adjustable 120°F to 181°F with manual reset high limit. Standard units are wired for non-simultaneous single-phase operation.

CSA CERTIFIED AND ASME RATED T&P VALVE FACTORY INSTALLED

SIMPLIFIED CIRCUITRY, COLOR CODED FOR EASY SERVICE

COMPLIANCE

Meets the standby loss requirements of the US Dept. of Energy and ASHRAE/ IES 90.1

ALL STAINLESS STEEL TANK AND STAINLESS STEEL DIP TUBE FOR LONG LIFE

THERMOPLASTIC JACKET WILL NOT CORRODE IN HARSH ENVIRONMENTS

TOP INLET AND OUTLET CONNECTIONS SUPPLIED WITH DIELECTRIC UNIONS WITH 4" LONG 3/4" TYPE L COPPER TUBES. SWEAT DIRECT TO COPPER FITTINGS, OR USE PRESS FITTINGS FOR EASIER INSTALLS.

BRASS DRAIN VALVE FACTORY INSTALLED

APPROVED VOLTAGE & WATTAGE CONVERSION PROGRAM

LIMITED WARRANTY OUTLINE

If the tank should leak any time during the first three years, under the terms of the warranty, Heat-Flo will furnish a replacement heater, installation, labor, handling, and local delivery extra. THIS OUTLINE IS NOT A WARRANTY. For complete information, consult the written warranty or Heat-Flo, Inc.

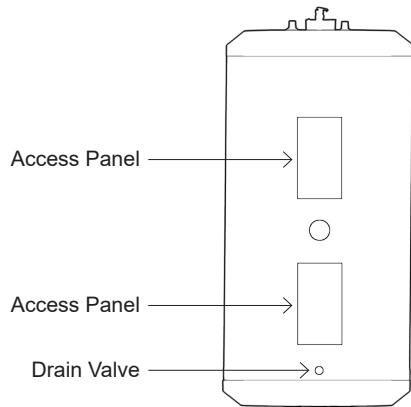


Intertek

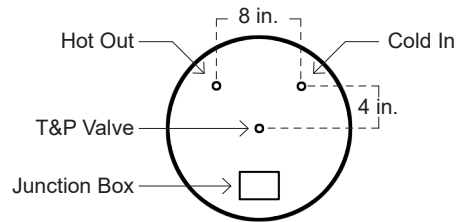
Conforms to STD 1453
and NSF/ ANSI 372
Certified to CAN/CSA STD C22.2
NO. 110-94.



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Top inlet and outlet connections supplied with dielectric unions with 4" long 3/4" Type L copper tubes. Sweat direct to copper fittings, or use press fittings for easier installs.



Product Specifications

Model Number	Gallon Capacity (U.S. Gal.)	Standard Element Wattage, 240 Volt	Height (Inches)	Diameter (Inches)	Approx. Shipping Weight (lbs.)
EC-66	66	4500	48	28.0	130.0
EC-80	80	4500	56	28.0	140.0
EC-119	119	4500	74	28.0	175.0

240 Volt, 1-Phase, (2) 4500 Watt Elements Wired Non-Simultaneous Standard.

Other voltages and wattages are available to order.
Voltage and wattage must be specified when ordering.
5500 and 6100 Watts Not Available in 208 Volts.
Inlet & Outlet Connections 3/4 Type L Copper Tube.

Electrical Characteristics

Element Wattage	Non-Simultaneous and Single Element Operation Full Load Current (Amps) Terminals L1, L2				Simultaneous Dual Element Operation Single Phase Connection Full Load Current (Amps) Terminals - L1, L2			
	208V	240V	277V	480V	208V	240V	277V	480V
Upper/ Lower								
3000/ 3000	14.4	12.5	10.8	6.3	28.8	25.0	21.7	12.5
4500/ 4500	21.6	18.8	16.2	9.4	43.3	37.5	32.5	18.8
5000/ 5000	24.0	20.8	18.1	10.4	N/A	41.7	36.1	20.8
5500/ 5500	26.4	22.9	19.9	11.5	N/A	N/A	39.7	22.9
6100/ 6100	29.3	25.4	22.0	12.7	N/A	N/A	44.0	25.4

Element Availability Chart (Light Commercial Electric)

Voltage	Wiring	KW Input Available							
		1.5	2.0	2.5	3.0	4.5	5.0	5.5	6.1
208	Interlock	1.5	2.0	2.5	3.0	4.5	5.0	5.5	6.1
	Simultaneous	3.0	4.0	5.0	6.0	9.0	-	-	-
240	Interlock	1.5	2.0	2.5	3.0	4.5	5.0	5.5	6.1
	Simultaneous	3.0	4.0	5.0	6.0	9.0	-	-	-
277	Interlock	1.5	2.0	2.5	3.0	4.5	5.0	5.5	6.1
	Simultaneous	3.0	4.0	5.0	6.0	9.0	10.0	11.0	12.2
480	Interlock	-	2.0	2.5	3.0	4.5	5.0	5.5	6.1
	Simultaneous	-	4.0	5.0	6.0	9.0	10.0	11.0	12.2



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Recovery Capacities

Element Wattage (Upper/ Lower)	KW Input	U.S. Gallons/ Hr. at Temperature Rise Indicated										
		36°F	40°F	54°F	60°F	72°F	80°F	90°F	100°F	108°F	120°F	126°F
Non-Simultaneous Operation												
3000/3000	3.0	34	30	23	20	17	15	14	12	11	10	10
4500/4500	4.5	51	46	34	30	25	23	20	18	17	15	14
5000/5000	5.0	56	51	38	34	28	25	23	20	19	17	16
5500/5500	5.5	62	56	42	37	31	28	25	22	21	19	18
6000/6000	6.0	68	61	45	41	34	30	27	24	23	20	19
Simultaneous Operation												
3000/3000	6.0	68	61	45	41	34	30	27	24	23	20	19
4500/4500	9.0	101	91	68	61	51	46	41	36	34	30	29
5000/5000	10.0	113	101	75	67	56	51	45	41	37	34	32
5500/5500	11.0	124	111	83	74	62	56	50	45	41	37	35
6000/6000	12.0	135	122	90	81	67	61	54	49	45	41	39

SPECIFICATION

The water heater(s) shall be EC-XXXXX Model(s) No. _____ as manufactured by Heat-Flo or an approved equal. Heater(s) shall be rated at _____ kW, _____ volts, single-phase, 60 cycle AC, and listed by Intertek. Models shall meet the standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/ IES 90.1. Tank(s) shall be _____-gallon capacity. Heater(s) shall have 150 psi working pressure. Tanks are all Stainless Steel. Electric heating elements shall be low watt density with Incoloy sheath and 316L Stainless Steel flange. Each element shall be controlled by an individually mounted thermostat and high-temperature cutoff switch. The outer jacket shall be thermoplastic and shall enclose the tank with foam insulation. Electrical junction box on the top of the heater. The brass drain valve shall be located in the front for ease of servicing. Heater tank shall have a 3-year limited warranty as outlined in the written warranty. Fully illustrated manual to be included.

For technical information, call 508-278-2400. Heat-Flo, Inc. reserves the right to make product changes or improvements without prior notice.

Heat-Flo, Inc., REV 103118

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