COMMERCIAL
ELECTRIC WATER HEATERS

Commercial Electric Water Heaters are designed for commercial applications.

- 1500 to 6100-Watt elements, single-phase and unbalanced 3-phase.
- 10 to 119-Gallon capacities.

All Stainless Steel Tanks
Ten Sizes: 10 through 119-Gallon Capacities.

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 1.5 to 6.1 KW. Maximum input 12.2 KW (See chart).

Standard Voltages
120 and 277V single phase. 208, 240, and 480V unbalanced three phase delta. Easily converted to simultaneous, single phase, or off-peak control at the terminal block. Single element heaters are single phase only. Conversion Kits are available.

Terminal Block
Factory installed. Connect service to heater at terminal block. No junction box on 10 and 20-gallon units.

Controls
Temperature control (adjustable from 110˚F to 170˚F on single element units, and 120˚F to 181˚F on dual element units). Manual reset high temperature cutoff on each element.

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

CSA CERTIFIED AND ASME RATED T&P VALVE

SIMPLIFIED CIRCUITRY, COLOR CODED FOR EASY SERVICE

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 (EXCLUDES SSL-10S)

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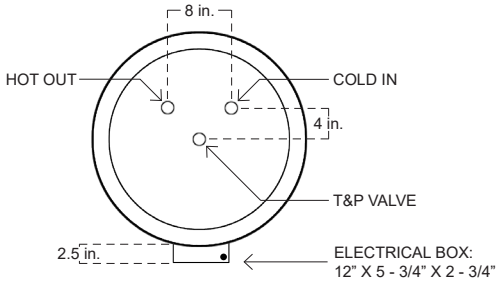
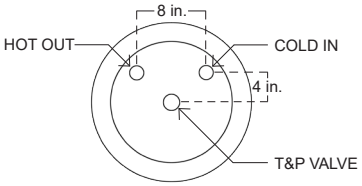
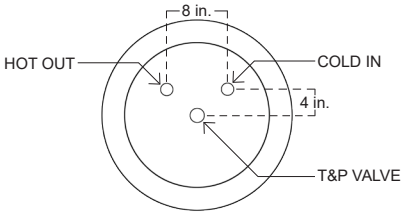
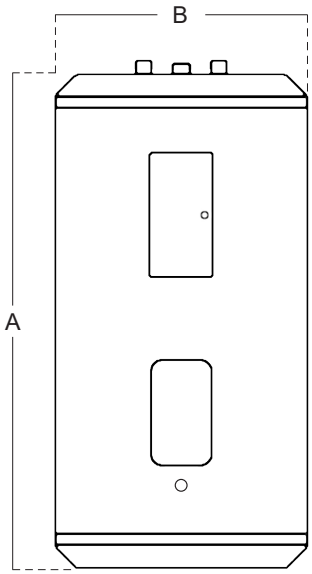
Top inlet and outlet connections supplied with dielectric unions with 4” long 3/4” Type L copper tubes. Sweat direct to copper fittings, or use press fittings for easier installs.

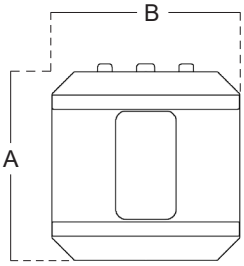
All inlet and outlet connections 3/4” Copper Tube.



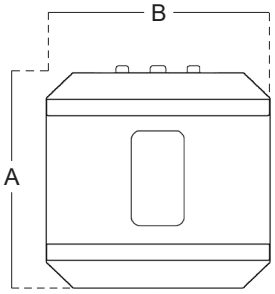








Model 10S



Model 20S

Models 30D - 119D

Product Specifications

Model Number	Gallon Capacity	Maximum KW Input	No. of Elements	Height to Top	Diameter	Weight
Compact Models - Single Elements Supplied w/ 120V 1500W Heating Element Standard						
SSL-10S	10	6.1	1	18.0	19.0	30
SSL-20S	20	6.1	1	24.5	23.5	35
Lowboy models - Double Elements Supplied w/ 240V 4500W Heating Elements Wired 1 Ph. Non-Simultaneous Standard						
SSL-30D	30	12.2	2	34.0	23.5	75
SSL-40D	40	12.2	2	36.0	28.0	90
SSL-50D	50	12.2	2	40.0	28.0	105
Tall Models - Double Elements Supplied w/ 240V 4500W Heating Elements Wired 1 Ph. Non-Simultaneous: SSN-40D, SSN-52D Standard *Supplied w/ 208V 6100W Heating Elements Wired 3 Ph. Non-Simultaneous: SSN-66D, SSN-80D, SSN-119D Standard						
SSN-40D	40	12.2	2	44.0	23.5	90
SSN-52D	50	12.2	2	54.0	23.5	105
*SSN-66D	66	12.2	2	48.0	28.0	130
*SSN-80D	80	12.2	2	56.0	28.0	140
*SSN-119D	119	12.2	2	74.0	28.0	175

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ELECTRIC WATER HEATERS

Element Availability Chart (Light Duty Commercial Electric)

Models & Elements	Voltage	Wiring	KW Input Available							
10 & 20-Gallon Single Element Units	120	-	1.5	2.0	2.5	3.0	-	-	-	-
	208	-	1.5	2.0	2.5	3.0	4.5	5.0	5.5	6.1
	240	-	1.5	2.0	2.5	3.0	4.5	5.0	5.5	6.1
	277	-	1.5	2.0	2.5	3.0	4.5	5.0	5.5	6.1
	480	-	-	2.0	2.5	3.0	4.5	5.0	5.5	6.1
30 - 119-Gallon Double Element Units	120	Interlock	1.5	2.0	2.5	3.0	-	-	-	-
		Simultaneous	3.0	4.0	5.0	-	-	-	-	-
	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	10.0*	-	-
	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	10.0	11.0*	12.2*
	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	-	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

* Available in 3-Phase Only

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					Simultaneous Dual Element Operation Unbalanced Three Phase Connection Full Load Current (Amps) Terminals - L2/ Terminal L1 & L3		
Upper/ Lower	120V	208V	240V	277V	480V	120V	208V	240V	277V	480V	208V	240V	480V
1500/ 1500	12.5	7.2	6.3	5.4	N/A	25.0	14.4	12.5	10.8	N/A	12.5/ 7.2	10.8/ 6.3	5.5/ 3.2
2000/ 2000	16.7	9.6	8.3	7.2	4.2	33.3	19.2	16.7	14.4	8.3	16.7/ 9.6	14.4/ 8.3	7.2/ 4.2
2500/ 2500	20.8	12.0	10.4	9.0	5.2	41.7	24.0	20.8	18.1	10.4	20.8/ 12.0	18.1/ 10.4	9.0/ 5.2
3000/ 3000	25.0	14.4	12.5	10.8	6.3	N/A	28.8	25.0	21.7	12.5	25.0/ 14.4	21.7/ 12.5	10.8/ 6.3
4500/ 4500	N/A	21.6	18.8	16.2	9.4	N/A	43.3	37.5	32.5	18.8	37.5/ 21.6	32.5/ 18.8	16.3/ 9.4
5000/ 5000	N/A	24.0	20.8	18.1	10.4	N/A	N/A	41.7	36.1	20.8	41.7/ 24.0	36.1/ 20.8	18.1/ 10.4
5500/ 5500	N/A	26.4	22.9	19.9	11.5	N/A	N/A	N/A	39.7	22.9	N/A	39.7/ 22.9	19.8/ 11.5
6100/ 6100	N/A	29.3	25.4	22.0	12.7	N/A	N/A	N/A	44.0	25.4	N/A	44.1/ 25.4	22.0/ 12.8

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ELECTRIC WATER HEATERS

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												
/1500	1.5	17	15	11	10	8	8	7	6	6	5	5
/2000	2.0	23	20	15	14	11	10	9	8	8	7	6
/2500	2.5	28	25	19	17	14	13	11	10	9	8	8
3000/3000	3.0	34	30	23	20	17	15	14	12	11	10	10
4000/4000	4.0	45	41	30	27	23	20	18	16	15	14	13
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
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
4000/4000	8.0	90	81	60	54	45	41	36	32	30	27	26
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
6000/6000	12.0	135	122	90	81	67	61	54	49	45	41	39

SPECIFICATION

The water heater(s) shall be SS-XXXXX Model(s) No. _____ as manufactured by Heat-Flo or an approved equal. Heater(s) shall be rated at _____ kW, _____ volts, _____-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 with heavy-duty terminal blocks shall be provided (except on 120V & 277V). {No junction box on SSL-10S or SSL-20S}. 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.