

**3-Year Limited Tank/1-Year Limited Parts Warranty\***

## Heavy Duty Surface Thermostat Commercial Electric

- The STCE models are designed to provide years of reliable operation in commercial applications. Multiple anodes promote longer tank life through even distribution, for protection of the new tank interior.

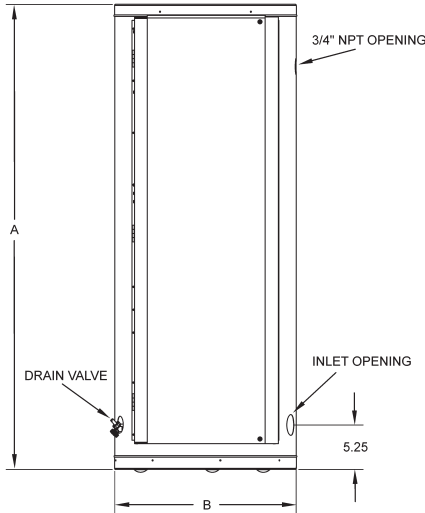
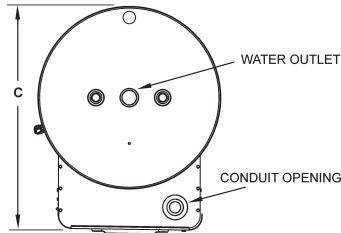
- **Gold Plated Elements** - The STCE models ship with gold plated elements. These gold elements provide long life and superior scale resistance.
- **Glass-Lined Tank** - Three sizes; 50, 80 and 119 gallon capacity. Tank interior is coated with glass specially developed for water heater use. Tanks rated at 150 psi (1034 kPa) working pressure (ASME 150 psi). Foam insulation reduces costly heat loss, and is vermin proof.
- **Fusing** - Protects all elements, thermostats, and internal wiring circuits against excess current flow. Meets National Electrical Code requirements that non-ASME tanks must have internal fusing when current draw exceeds 48 amps.
- **Standard Voltages** - 208, 240 and 480V single-phase and three-phase delta. Convertible from three-phase to single-phase (in field) and vice versa. 277V single-phase also available.
- **Terminal Block** - Factory installed. Just bring the service to the heater and connect to block.
- **Controls** - One temperature control (adjustable through a range of 120° to 180°F) and manual reset high temperature cutoff per element. Thermostat step control may be achieved by varying settings on individual temperature controls. Located behind hinged control compartment door for quick, easy access.
- **Meets or exceeds the requirements of ASHRAE 90.1b-1992 and ASHRAE/IESNA 90.1-2004.**
- **Other Standard Features** - Simplified circuitry, color coded for ease of service • Two anode rods for maximum corrosion protection • Cabinet has bonderized undercoat with baked enamel finish • Bottom inlet and top outlet openings • Brass drain valve • CSA/ASME temperature and pressure relief valve • Single panel control box.
- **Options** - UL listed conversion kits to correct some voltage and Kw requirements in the field before and after installation • ASME 150 psi tank construction • International voltages - 220, 380, 400, 415, 575, and 600 volts, three phase available with Y connected elements • MANIFOLD KITS - for multiple tank installations. Two heaters -part # 9003429205, three heaters- part # 9003430205 and four heaters- part # 9003431205



**STCE31-50, 80, 119**



\*For complete warranty information consult the written warranty of American Water Heaters found at [www.americanwaterheater.com](http://www.americanwaterheater.com), or call (800) 456-9805.



Dimensions on all charts shown in inches.

KW INPUT	GPH RECOVERY CAPACITIES												
	TEMPERATURE RISE												
	30° F	40° F	50° F	60° F	70° F	80° F	90° F	100° F	110° F	120° F	130° F	140° F	
6	82	62	49	41	35	31	27	25	22	21	19	18	
9	123	92	74	62	53	46	41	37	34	31	28	26	
12	164	123	98	82	70	61	55	49	45	41	38	35	
13.5	184	138	111	92	79	69	62	55	50	46	43	40	
15	205	154	123	102	88	77	68	61	56	51	47	44	
18	246	184	148	123	105	92	82	74	67	62	57	53	
24	328	246	197	164	140	123	109	98	90	82	76	70	
27	369	276	221	185	158	138	123	111	101	92	85	79	
30	410	307	246	205	176	154	137	123	112	102	95	88	
36	492	369	295	246	211	184	164	148	134	123	113	105	
40.5	554	418	332	277	237	208	185	166	151	138	128	119	
45	615	461	369	307	263	230	205	184	168	154	142	132	
54	738	554	443	359	316	277	246	221	201	185	170	158	

Figured at 1 KW (3413 BTU) = 4.1 Gallons at 100°F temperature rise.

KW INPUT	MODEL NUMBERS TANK CAPACITY IN GALLONS			NUMBER OF ELEMENTS	ELEMENT WATTAGE	FULL LOAD CURRENT IN AMPERES						
	50	80	119			SINGLE PHASE			THREE PHASE			
						208V	240V	277V	480V	208V	240V	480V
6	STCE31-50-060	STCE31-80-060	STCE31-119-060	3	2,000	28.8	25.0	21.7	12.5	16.7	14.4	7.2
9	STCE31-50-090	STCE31-80-090	STCE31-119-090	3	3,000	43.3	37.5	**32.5	18.8	25.0	21.7	10.8
12	STCE31-50-120	STCE31-80-120	STCE31-119-120	3	4,000	57.7	50.0	43.3	25.0	33.3	28.9	14.4
13.5	STCE31-50-135	STCE31-80-135	STCE31-119-135	3	4,500	64.9	56.3	**48.7	28.1	37.5	32.5	16.2
15	STCE31-50-150	STCE31-80-150	STCE31-119-150	3	5,000	72.1	62.5	**54.2	31.3	41.6	36.1	18.0
18	STCE31-50-180	STCE31-80-180	STCE31-119-180	3*	6,000	86.5	75.0	65.0	37.5	50.0	43.3	21.7
24	STCE31-50-240	STCE31-80-240	STCE31-119-240	6	4,000	115.4	100.0	86.6	50.0	66.6	57.7	28.9
27	STCE31-50-270	STCE31-80-270	STCE31-119-270	6	4,500	129.8	112.5	**97.5	56.3	74.9	65.0	32.5
30	STCE31-50-300	STCE31-80-300	STCE31-119-300	6	5,000	144.2	125.0	**108.3	62.5	83.3	72.2	36.1
36	STCE31-50-360	STCE31-80-360	STCE31-119-360	6	6,000	173.1	150.0	130.0	75.0	99.9	86.6	43.3
40.5	N/A	STCE31-80-405	STCE31-119-405	9	4,500	194.7	168.8	**146.2	84.4	112.4	97.4	48.7
45	N/A	STCE31-80-450	STCE31-119-450	9	5,000	216.3	187.5	**162.5	93.8	124.9	108.3	54.1
54	N/A	STCE31-80-540	STCE31-119-540	9	6,000	N/A	225.0	194.9	112.5	149.9	129.9	65.0

\*208 volt models may contain three (3) additional elements. \*\* Elements available in incoloy only.

MODEL NUMBER	GALLON CAPACITY	HEIGHT TOP OF HEATER A	WIDTH B	DEPTH C	WATER CONN.	APPROX. SHIPPING WEIGHT
STCE31-50	50	55-3/4	21-3/4	27	1-1/4	265
STCE31-80	80	60-1/4	25-1/2	31	1-1/4	280
STCE31-119	119	62-1/4	29-1/2	35	1-1/4	390

\*Optional ASME models available. Add "A" before the model number to indicate ASME. Listed with the California Energy Commission. Specify wattage, voltage and phase when ordering.

## Specification

Furnish and install, where indicated, in accordance with manufacturer's instructions and in compliance with all rules and regulations of authorities having jurisdiction.

The heater(s) shall be STCE Series Commercial Electric Model Number \_\_\_\_\_ as manufactured by American Water Heaters. Heater(s) shall be rated at \_\_\_\_\_ KW, \_\_\_\_\_ volts, \_\_\_\_\_ phase, 60 cycle AC, and listed by Underwriters' Laboratories and approved to the NSF Standard 5 by UL. Tank(s) shall be \_\_\_\_\_ gallon capacity. Tanks shall be 50, 80 and 119 gallon capacity and shall have 150 psi working pressure and be equipped with extruded high density anode. All internal surfaces of the heater(s) exposed to water shall be glass-lined with an alkaline borosilicate composition that has been fused-to-steel by firing at a temperature range of 1400°F to 1600°F. Electric heating elements shall be low watt density gold plated 1" screw-in type. Each element shall be controlled by an individually mounted thermostat and high temperature cut-off switch. All internal circuits shall be fused. The outer jacket shall be of baked enamel finish and shall be provided with full size control compartment for performance of service and maintenance through hinged front panel and shall enclose the tank with foam insulation. Electrical junction box with heavy duty terminal block shall be provided. The drain valve shall be located in the front for ease of servicing. Heater tank shall have a three-year limited warranty as outlined in the written warranty. Manufacturer shall supply ASME rated temperature and pressure relief valve. Fully illustrated instruction manual to be included. Meets ASHRAE 90.1b and ASHRAE/IESNA 90.1-2004.

## Distributed By:

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