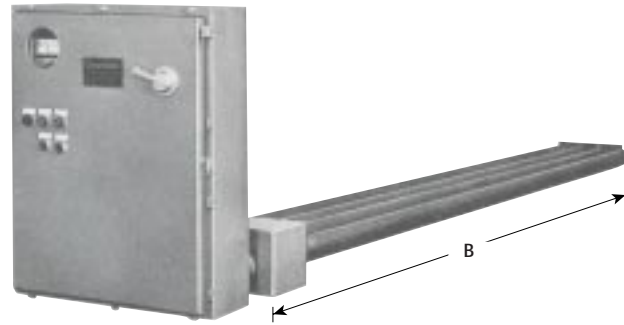


## RSTO-B

### Unitary Electric Immersion Heater

- 15 - 26 Ft. Immersed Length
- 15 - 72 kW (51 - 246 Mbh)
- 240 and 480V, 3 Phase
- 3 W/In<sup>2</sup> on Pipe (Heating) Surface
- Weather Proof Electrical Enclosure
- Holding Temperatures 175 - 375°F (Optional Control 20 - 120°F)



#### Features

**Easy Maintenance and Service** — Flexible OCE elements (RSTO Models only) can be bent in a vertical plane on a 12 inch minimum radius and require only 3 feet for installation or removal.

**Weather Proof Electrical Enclosure** completely wired with safety interlocked circuit

breaker, overtemperature controls, pilot lights and switches. Electronic process temperature control mounted in door and accessible from outside the enclosure. Optional time clock.

**Optional Explosion Resistant Electrical Enclosures** for hazardous locations, special construction material, stainless steel and others.

#### Applications

Chromalox RSTO and RST Unitary Electric Immersion Heaters provide low watt density heating over a large heated surface with precise temperature control for such materials as asphalt, fuel oil, pitch and tar, liquid sugar, molasses, lube oils, linseed oil and other heat sensitive materials. Unitary heaters are installed in large tanks above or below ground (requires access to one tank end).

RSTO immersion heaters are recommended for general purpose applications and cramped locations. Open coil (OCE) heating elements are housed in 3" Schedule 40 NPS steel pipe and are removable without draining the tank. A liquid-tight adapter box<sup>5</sup> is provided for welding the heater assembly to the tank header.

**RST Model** — Metal sheath elements in place of the open coil elements. Change Model to RST in the table to the left when ordering.

#### Specifications and Ordering Information

Tank Cap. (Gal.)	kW	Hold Temp. (°F)	DIM <sup>1</sup> B (Ft.)	No. Tubes	Model <sup>3</sup>		Stock	Wt. (Lbs.)
					240V <sup>2</sup> 3 Phase	480V <sup>2</sup> 3 Phase		
8,000	15	175	19	2	RSTO-21915B-24	RSTO-21915B-48	NS	560
8,000	20	225	19	2	RSTO-21920B-24	RSTO-21920B-48	NS	560
8,000	25	275	19	2	RSTO-21925B-24	RSTO-21925B-48	NS	560
8,000	30	325	15	5	RSTO-52030B-24	RSTO-52030B-48	NS	1,100
8,000	38	375	19.5	5	RSTO-52038B-24	RSTO-52038B-48	NS	1,300
10,000	18	175	15	3	RSTO-31518B-24	RSTO-31518B-48	NS	635
10,000	24	225	15	4	RSTO-41524B-24	RSTO-41524B-48	NS	905
10,000	36	325	15	6	RSTO-61536B-24	RSTO-61536B-48	NS	1,270
10,000	45	375	14.5	8	RSTO-81545B-24	RSTO-81545B-48	NS	1,710
12,000	20	175	17	3	RSTO-31720B-24	RSTO-31720B-48	NS	695
12,000	26	225	16.5	4	RSTO-41726B-24	RSTO-41726B-48	NS	925
12,000	32	275	16.5	5	RSTO-51732B-24	RSTO-51732B-48	NS	1,135
12,000	40	325	17	6	RSTO-61740B-24	RSTO-61740B-48	NS	1,440
12,000	48	375	17.5	7	RSTO-71848B-24	RSTO-71848B-48	NS	1,620
15,000	22	175	18.7	3	RSTO-31922B-24	RSTO-31922B-48	NS	725
15,000	30	225	19	4	RSTO-41930B-24	RSTO-41930B-48	NS	1,055
15,000	36	275	18.5	5	RSTO-51936B-24	RSTO-51936B-48	NS	1,230
15,000	45	325	19	6	RSTO-61945B-24	RSTO-61945B-48	NS	1,530
15,000	56	375	20.5	7	RSTO-72156B-24	RSTO-72156B-48	NS	1,830
20,000	24	175	19.6	3	RSTO-32024B-24	RSTO-32024B-48	NS	755
20,000	36	225	23	4	RSTO-42336B-24	RSTO-42336B-48	NS	1,205
20,000	48	275	25	5	RSTO-52548B-24	RSTO-52548B-48	NS	1,605
20,000	60	325	25.5	6	RSTO-62660B-24	RSTO-62660B-48	NS	1,790
20,000	72	375	26	7	RSTO-72672B-24	RSTO-72672B-48	NS	2,260

**Stock Status:** S = stock AS = assembly stock NS = non-stock

**To Order**—Specify model, volts, phase, kW, overall immersed "B" length and quantity.

1. Heated length is 4" shorter than B dimension.
2. Other voltages available, contact your Local Chromalox Sales office.
3. Suffix "T" indicates optional 7 day 24 hour time clock. Suffix "F" indicates flange mounting instead of adapter box.
4. Special ratings, immersion lengths and configurations available.
5. Optional adapter flange available in place of adapter box. Complete details and dimensions of adapter box, adapter flange and enclosures are available from your Local Chromalox Sales office.

## Ordering Guidelines

### Open Coil Heaters

#### Ordering Information

To Order—  
Specify model, volts, phase, kW, PCN (where available) and options desired. Complete model number using the matrix provided.

Model	Large Tank Heating Systems								
OCE	Open Coil Element								
	<b>Code</b>	<b>Length (nearest Ft.)</b>							
	19	19							
		<b>Code</b>	<b>Wattage</b>						
		125	12.5 kW (use actual kilowatt in three digits i.e. 5 kW=050 or 0.5 kW=005)						
			<b>Code</b>	<b>Pipe Size (Schedule 40)</b>					
			2	2" NPS					
			3	3" NPS					
				<b>Code</b>	<b>Voltage</b>				
				20	208	24	240	38	380
				41	415	48	480	57	575
					<b>Code</b>	<b>Phase</b>			
					1	Single			
					3	Three			
OCE	19	125	3	24	3	Typical Model Number			

**Note** — NEMA 4 or 4X terminal enclosure kit is available for field installation by contacting your Local Chromalox Sales office.

### Large Tank Heaters

#### Ordering Information

To Order—  
Specify model, volts, phase, kW, PCN (where available) and options desired. Complete model number using the matrix provided.

Model	Large Tank Heating Systems										
FXTH	Flexible Tank Immersion Heater with Open Coil Elements										
RSTO	Unitary Electric Immersion Heater with Open Coil (OCE) Elements										
RST	Unitary Electric Immersion Heater with Metal Sheath Heating Elements										
	<b>Code</b>	<b>Number of Heating Tubes</b>									
	3	1	2	3	4	5	6	7	(FXTH up to 3)		
		<b>Code</b>	<b>Length (nearest Ft.)</b>								
		19	19								
			<b>Code</b>	<b>Wattage</b>							
			22	22 kW (use actual Kilowatt-round to kW i.e. 23.7kW=24)							
				<b>Code</b>	<b>Latest Modification</b>						
				B	B						
					<b>Code</b>	<b>Voltage (3 phase only)</b>					
					20	208	24	240	38	380	
					41	415	48	480	57	575	
						<b>Code</b>	<b>Options</b>				
						F	Flange Mounting (RST and RSTO)				
						T	Time Clock (RST and RSTO)				
						WCC	WCC Control Panel (FXTH)				
						XX	Other Options				
RSTO	3	19	22	B	24	F	Typical Model Number				

**Note** — Refer to large tank heating systems product pages in this section for details, version letter and available options.