### Metal Heater

# Durable, efficient chemical heater

For use in most aqueous alkaline solutions

Low watt density design saves space & ensures long life

Vapor resistant, flame retardant polypropylene terminal

**Grounded construction** and built in thermal protector







Up to 180°F (82°C)



500 watts to 1,500 watts



120 to 415 volts



304 stainless steel, 316 stainless steel, Titanium



cULus listed (except steel) and CE compliant (except 600 volts)

	B SEF	RIES, 1	1/4" SMA	LL TANK	<b>METAL I</b>	HEATERS	
		HOT	OVERALL	304	316		SHIP
WATTS	VOLTS	ZONE	LENGTH	SS	SS	TITANIUM	WGT.
		In./(mm)	In./(mm)				Lbs./(kg)
500	120	5	10	FB.5110-**	SB.5110-**	TB.5110-**	5
	240	(127)	(254)	FB.5210-**	SB.5210-**	TB.5210-**	(2.3)
1000	120	8	14	FB1114-**	SB1114-**	TB1114-**	6
	240	(203)	(356)	FB1214-**	SB1214-**	TB1214-**	(2.7)
1500	120	11	17	FB1.5117-**	SB1.5117-*	* TB1.5117-**	8
	240	(279)	(432)	FB1.5217-**	SB1.5217-*	TB1.5217-**	(3.6)

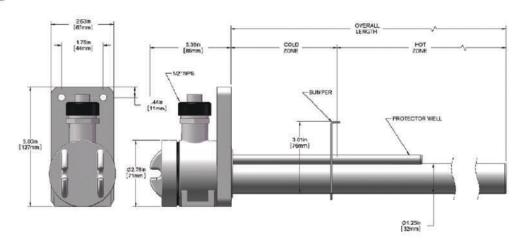
### Features & Values

- For use in most aqueous alkaline solutions, and plating and phosphate tanks. Check solution recommendation chart with your chemical supplier for proper sheath material selection
- Heavy wall metal sheaths available in: 304 stainless steel, 316 stainless steel and Titanium
- Watt densities up to 45 watts per square inch (6.9 w/ cm²) ensure long service life.
- Vapor resistant, flame retardant polypropylene termimal enclosure with 3 ft (.9m) flexible PVC liquid tight conduit.

## Specifications

Wattages	500 watts to 1,500 watts			
Voltages	120 to 415 volts			
Temperature Range	Up to 180°F (82°C)			
Options	<ul> <li>Special configurations and lengths</li> </ul>			
	<ul> <li>Longer wire and conduit lengths</li> </ul>			
	<ul> <li>Lower watt densities for highly viscous solutions</li> </ul>			
	<ul> <li>Temperature and level controls sized to match the heater (sold separately)</li> </ul>			
	<ul> <li>All metal welded junction box</li> </ul>			
Safety Features	Grounded construction			
	<ul> <li>Thermal protector built in.</li> </ul>			
	Replaceable PI protector standard			
	for solutions up to 180°F (82°C)			
	<ul> <li>Non-floating construction</li> </ul>			
Certifications	cULus listed (except steel) and CE compliant (except 600 volts)			

### **Dimensions**



#### Model Number Breakdown

SB	1	8	10	P2		
Series	Wattage	Voltage	Length (in.)	Type of Protector	Wire and Conduit Length	
FB = 304 Stainless Steel	.5 = 500	1 = 120	10 = .5kW	Replaceable Protector	no designator = 36" length standard	
SB = 316 Stainless Steel	1 = 1000	2 = 240	14 = 1kW	P1 (std) = for solutions up to 180°F	specify variations from	
TB = Titanium	1.5 = 1500	8 = 208	17 = 1.5kW	P4 = for solutions up to 230°F	standard Ex: -X84 = 84"	
-		9 = 220	specify custom lenghts, not to	Resettable Protector		
		0 = 200		P2 = for solutions up to 180°F		
				P6 = for solutions up to 230°F		