Tank Immersion Heaters



Replacement Thermal Protection Accessories

Various construction methods are used in the manufacture of PTFE, Quartz and Metal Tube Over-the-Side Immersion Heaters. The T1 or T2 Thermal Protection Devices are matched to the item they protect for lead length and mounting style.

T1 Thermal Fuse Devices		T2 Bi-Metal Switch	
Description	Catalog Number	Description	Catalog Number
T1 Thermal Fuse for PTFE Over-the-Side Heaters (to 190°F)	TMC90001	T2 Bi-Metal Switch for PTFE Over-the-Side Heaters (rated to 190°F)	TMC90101
T1 Thermal Fuse for PTFE L-Shaped Over-the-Side Heaters (to 190°F)	TMC90004	T2 Bi-Metal Switch for PTFE L-Shaped Over-the-Side Heaters (to 190°F)	TMC90111
T1 Thermal Fuse for Quartz Over-the-Side Heaters (w/SS Braid Sleeving)	1	T2 Bi-Metal Switch for Quartz Over-the-Side Heaters (w/SS Braid Sleeving)	
 Low Temperature Range (to 180°F) 	TMC90002	 Low Temperature Range (to 180°F) 	TMC90102
• Medium Temperature Range (to 220°F)	TMC90003	• Medium Temperature Range (to 220°F)	TMC90103
T1 Thermal Fuse for Straight Metal Over-the-Side Heaters		T2 Bi-Metal Switch for Straight Metal Over-the-Side Heaters	
• Low Temperature Range (to 180°F)	TMC90005	• Low Temperature Range (to 180°F)	TMC90105
• Medium Temperature Range (to 220°F)	TMC90006	• Medium Temperature Range (to 220°F)	TMC90106
 High Temperature Range (to 300°F) 	TMC90007	 High Temperature Range (to 300°F) 	TMC90107
T1 Thermal Fuse for L-Shaped Metal Over-the-Side Heaters		T2 Bi-Metal Switch for L-Shaped Metal Over-the-Side Heaters	
• Low Temperature Range (to 180°F)	TMC90008	• Low Temperature Range (to 180°F)	TMC90108
• Medium Temperature Range (to 220°F)	TMC90009	• Medium Temperature Range (to 220°F)	TMC90109
• High Temperature Range (to 300°F)	TMC90010	• High Temperature Range (to 300°F)	TMC90110

High Temperature Range — Solutions from 220°F to 300°F (104.4°C to 149.0°C)

Medium Temperature Range — Solutions from 180°F to 220°F (82.2°C to 104.4°C)

Low Temperature Range — Solutions up to 180°F (82.2°C)

Thermal Over-Temperature Protection



The realities of any plating, cleaning, anodizing, etching or pickling operation are that something could go wrong such as:

- ◆ An undetected tank leak
- ◆ Undetected evaporation losses
- ◆ Failure to refill the system

Any of these conditions creates a situation where the potential for fire or other hazard is increased. **Standard Setup** — All Tempco Over-the-Side Teflon®, quartz and metal tube heaters come equipped with a replaceable thermal fuse placed in a thermowell and positioned at the top of the heater's hot zone. When wired into the heater circuit, it will instantly cut power to the heater when the preset temperature is reached. If the heater is over 15 amp, the thermal fuse would be wired into the control relay circuit. Also available is the T2 bimetal switch which would be wired into the control relay circuit and used with additional components to form a resettable system. We highly recommended the use of liquid level switches tied into control circuitry to provide a failsafe backup to the thermal fuse.

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