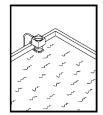




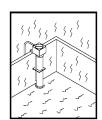
PROTECT YOUR HEATER

THE PROTECTOR 1 SERIES

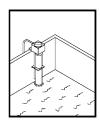
The Protector 1 overtemperature control system utilizes a heat sensitive fuse to detect overheat conditions. The protector, placed inside a thermowell, positioned in contact with the heater sheath, will cut power to the heater in the event of low liquid level.



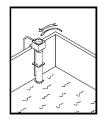
Immersion heater with Protector 1 working normally



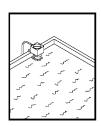
Process bath level drops due to tank leak or evaporation.



Protector 1 sensor detects elevating temperature and shuts off power to heater



Replace Protector.

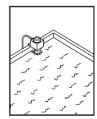


Restore the liquid level and resume operation.

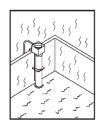
THE PROTECTOR 2 AND 3 SERIES

The Protector 2 and Protector 3 systems provide the same reliable overtemperature protection as the Protector 1; however, the control systems feature a heat sensing thermostat. If the liquid level drops and the heater reaches a preset overheat temperature, the thermostat cuts power to the heater and an audible alarm activates. After filling the tank, the immersion heater can quickly be made operational by pushing the reset button on the control to restore power.

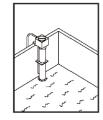
Protector 3 is designed for flexible lead or high temperature fluoropolymer (PTFE) heater applications only.



Immersion heater with Protector 2 working normally



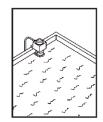
Process bath level drops due to tank leak or evaporation.



Protector 2's thermostat detects elevated temperature and shuts off power to heater



The alarm is activated



Restore the liquid level and and push the reset button to resume operation.

P4, 5, 6, 7, 8 Also available.

DO NOT wire P2, P6, P7 or P8 devices directly to power or heater load, as a dangerous short circuit will result with irreparable damage to the heater. Refer to wiring diagrams for proper installation.

See **SELECTION GUIDE** next page.

PROTECTOR SELECTION GUIDE

MODEL	ITEM#	REPLACEA HEATER	HEATER	WIRE	TEMPERATURE
NUMBER		MATERIAL	STYLE	COLOR	RANGE
P1	6021-18-R	Metal	over the side	white	up to 180°F (82°C)
P4	6022-18-R	Metal	over the side	blue	180 to 230°F (82 - 110°C)
P5	6023-18-R	Metal	over the side	red	230 to 300°F (110 - 150°C)
P1	6021-85-R	Metal	L-shaped	white	up to 180°F (82°C)
P4	6022-85-R	Metal	L-shaped	blue	180 to 230°F (82 - 110°C)
P5	6023-85-R	Metal	L-shaped	red	230 to 300°F (110 - 150°C)
P1	6032-26-R	Fluoropolymer	over the side	red	up to 190°F (88°C)
P1	6032-48-R	Fluoropolymer	L-shaped	red	up to 190°F (88°C)
P1	6032-26-R	Quartz	over the side	red	up to 180°F (82°C)
P4	6033-26-R	Quartz/Fluoropolymer	over the side	blue	180 to 230°F (82 - 110°C)
		RESETTA	BLE THERMAL P	ROTECTOF	RS
MODEL NUMBER	ITEM#	HEATER	HEATER	WIRE	TEMPERATURE
MODEL NUMBER P2	ITEM# 2804-18-R				
NUMBER		HEATER MATERIAL	HEATER STYLE	WIRE COLOR	TEMPERATURE RANGE
NUMBER P2	2804-18-R	HEATER MATERIAL Metal	HEATER STYLE over the side	WIRE COLOR White	TEMPERATURE RANGE up to 180°F (82°C)
P2 P6	2804-18-R 4047-18-R	HEATER MATERIAL Metal Metal	HEATER STYLE over the side over the side	wire coLor white blue	TEMPERATURE RANGE up to 180°F (82°C) 180 to 230°F (82 - 110°C)
P2 P6 P7	2804-18-R 4047-18-R 2805-18-R	HEATER MATERIAL Metal Metal Metal	HEATER STYLE over the side over the side over the side	wire color white blue red	TEMPERATURE RANGE up to 180°F (82°C) 180 to 230°F (82 - 110°C) 230 to 300°F (110 - 150°C)
P2 P6 P7 P2	2804-18-R 4047-18-R 2805-18-R 2804-85-R	Metal Metal Metal Metal Metal Metal	over the side over the side over the side over the side L-shaped	wire color white blue red white	TEMPERATURE RANGE up to 180°F (82°C) 180 to 230°F (82 - 110°C) 230 to 300°F (110 - 150°C) up to 180°F (82°C)
P2 P6 P7 P2 P6	2804-18-R 4047-18-R 2805-18-R 2804-85-R 4047-85-R	Metal	over the side over the side over the side over the side L-shaped L-shaped	wire color white blue red white blue	TEMPERATURE RANGE up to 180°F (82°C) 180 to 230°F (82 - 110°C) 230 to 300°F (110 - 150°C) up to 180°F (82°C) 180 to 230°F (82 - 110°C)
P2 P6 P7 P2 P6 P7 P2 P6 P7	2804-18-R 4047-18-R 2805-18-R 2804-85-R 4047-85-R 2805-85-R	MEATER MATERIAL Metal Metal Metal Metal Metal Metal Metal Metal Metal	over the side over the side over the side over the side L-shaped L-shaped L-shaped	wire color white blue red white blue red red	TEMPERATURE RANGE up to 180°F (82°C) 180 to 230°F (82 - 110°C) 230 to 300°F (110 - 150°C) up to 180°F (82°C) 180 to 230°F (82 - 110°C) 230 to 300°F (110 - 150°C)
P2 P6 P7 P2 P6 P7 P2 P6 P7	2804-18-R 4047-18-R 2805-18-R 2804-85-R 4047-85-R 2805-85-R 4575-26-R	HEATER MATERIAL Metal Metal Metal Metal Metal Metal Metal Metal Fluoropolymer	over the side over the side over the side over the side L-shaped L-shaped over the side	wire color white blue red white blue red white white blue red white white	TEMPERATURE RANGE up to 180°F (82°C) 180 to 230°F (82 - 110°C) 230 to 300°F (110 - 150°C) up to 180°F (82°C) 180 to 230°F (82 - 110°C) 230 to 300°F (110 - 150°C) up to 190°F (88°C)
P2 P6 P7 P2 P6 P7 P2 P6 P7 P8	2804-18-R 4047-18-R 2805-18-R 2804-85-R 4047-85-R 2805-85-R 4575-26-R 5163-120-R	MEATER MATERIAL Metal Metal Metal Metal Metal Metal Metal Fluoropolymer Fluoropolymer	over the side over the side over the side over the side L-shaped L-shaped L-shaped over the side	wire color white blue red white blue red white blue red white brown	TEMPERATURE RANGE up to 180°F (82°C) 180 to 230°F (82 - 110°C) 230 to 300°F (110 - 150°C) up to 180°F (82°C) 180 to 230°F (82 - 110°C) 230 to 300°F (110 - 150°C) up to 190°F (88°C) 190 to 210°F (88 - 99°C)
P2 P6 P7 P2 P6 P7 P2 P6 P7 P2 P8 P2	2804-18-R 4047-18-R 2805-18-R 2804-85-R 4047-85-R 2805-85-R 4575-26-R 5163-120-R 4575-48-R	HEATER MATERIAL Metal Metal Metal Metal Metal Metal Metal Fluoropolymer Fluoropolymer Fluoropolymer	over the side over the side over the side over the side L-shaped L-shaped over the side over the side	wire color white blue red white blue red white brown white	TEMPERATURE RANGE up to 180°F (82°C) 180 to 230°F (82 - 110°C) 230 to 300°F (110 - 150°C) up to 180°F (82°C) 180 to 230°F (82 - 110°C) 230 to 300°F (110 - 150°C) up to 190°F (88°C) 190 to 210°F (88 - 99°C) up to 190°F (88°C)

Also Available: Protector 3 - designed for flexible lead or high temperature fluoropolymer (PTFE) heater applications only.