

3P, 3F, 3S, and 3T SERIES, TRIPLE METAL HEATERS				
WATTS	VOLTS	HOT ZONE In./.(mm)	OVERALL LENGTH In./.(mm)	SHIP WGT. Lbs./.(kg)
3000	240	6	11	21
	480	(152)	(279)	(9.5)
6000	240	10	17	30
	480	(254)	(432)	(13.6)
9000	240	16	23	33
	480	(406)	(584)	(15)
12000	240	20	29	39
	480	(508)	(737)	(17.7)
15000	240	25	35	45
	480	(635)	(889)	(20.4)
18000	240	30	40	51
	480	(762)	(1016)	(23.1)
24000	240	37	47	63
	480	(940)	(1194)	(28.6)
27000	240	44	54	69
	480	(1118)	(1372)	(31.3)
30000	240	49	59	75
	480	(1245)	(1499)	(34)
36000	240	58	68	84
	480	(1473)	(1727)	(38.1)

Standard units consist of single head with single conduit. Add "-1" for single phase or "-3" for three phase.

## 3P, 3F, 3S, and 3T Series Heater Features and Benefits

### SUPERIOR CHEMICAL RESISTANCE:

- ♦ 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.

### RUGGED CONSTRUCTION:

- ♦ Heavy wall metal sheaths available in:  
Steel  
304 stainless steel  
316 stainless steel  
Titanium

### OUTSTANDING PERFORMANCE:

- ♦ Watt densities up to 35 watts per square inch (5.4 w/cm<sup>2</sup>) ensure long service life.

### CORROSION RESISTANT HEAD:

- ♦ Vapor resistant, flame retardant polypropylene terminal enclosure with 3 ft (.9m) flexible PVC liquid tight conduit.

### SAFETY FEATURES:

- ♦ Grounded construction.
- ♦ Thermal protectors built in. Replaceable PI protector standard for solutions up to 180°F (82°C).
- ♦ Non-floating construction.

**CERTIFICATIONS:** cULus listed (except steel) and CE compliant (except 600 volts).

**SIZES:** 3,000 watts to 36,000 watts.

### VOLTAGES:

- ♦ 200 to 600 volts.

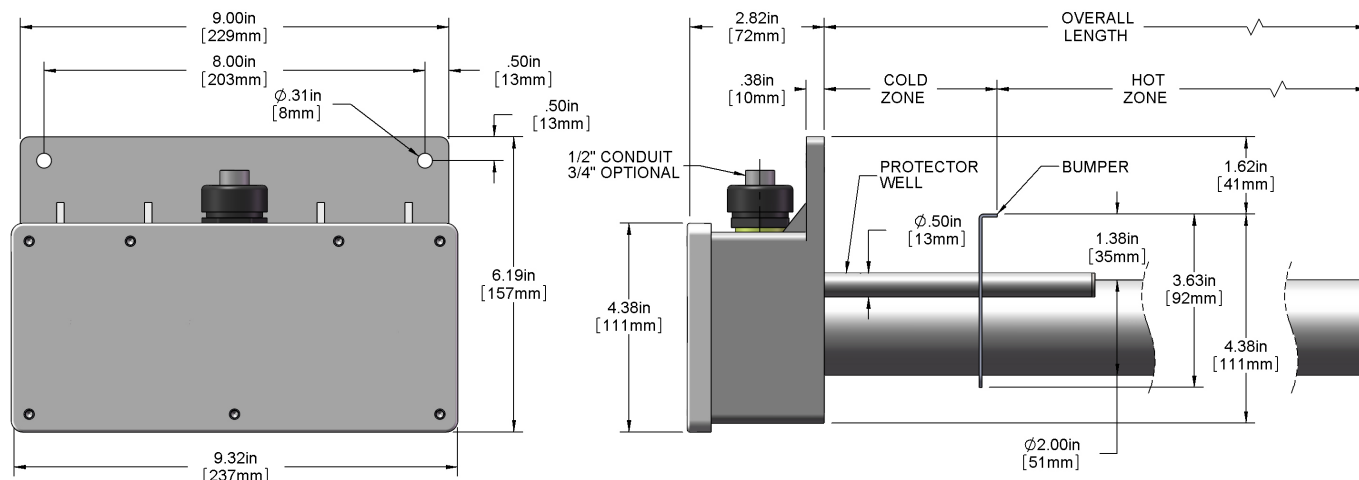
### OPTIONS AVAILABLE (consult factory):

- ♦ Replaceable thermal protectors:  
P4: for solutions up to 230°F(110°C)  
P5: for solutions up to 300°F(149°C)

Resettable thermal protectors:

- P2: for solutions up to 180°F(82°C)
- P6: for solutions up to 230°F(110°C)
- P7: for solutions up to 300°F(149°C)
- ♦ Special configurations and lengths.
- ♦ Longer wire and conduit lengths.
- ♦ Lower watt densities for highly viscous solutions.
- ♦ Temperature and level controls sized to match the heater (sold separately).
- ♦ All metal welded junction box.

## DIMENSIONS



## TRIPLE TUBE METAL OVER THE SIDE HEATER ORDERING INFORMATION

Series	Wattage	Voltage	Length (in.)	Options	Type of Protector	Wire and Conduit Length
	3 = 3000 6 = 6000 9 = 9000 12 = 12000 15 = 15000 18 = 18000 24 = 24000 27 = 27000 30 = 30000 36 = 36000	1 = 120 2 = 240 3 = 380 4 = 480 5 = 415 6 = 600 7 = 400 8 = 208 9 = 220 0 = 200	11 = 3kW 17 = 6kW 23 = 9kW 29 = 12kW 35 = 15kW 40 = 18kW 47 = 24kW 54 = 27kW 59 = 30kW 68 = 36kW specify custom lengths, not to exceed tank depth			no designator = 36" length standard specify variations from standard Ex: -X84 = 84"
	3P = steel 3F = 304 stainless steel 3S = 316 Stainless Steel 3T = titanium				<b>Replaceable Protector</b>	
					P1 (std) for solutions up to 180°F P4 for solutions up to 230°F P5 for solutions up to 300°F	
					<b>Resettable Protector</b>	
					(additional control components required)	
					P2 for solutions up to 180°F P6 for solutions up to 230°F P7 for solutions up to 300°F	
-X = any special configuration not called out in the part number (specify in clear text) -3 = three phase power with single head and conduit -1 = single phase power with single head and conduit						