

P, F, S, and T SERIES, METAL HEATERS				
WATTS	VOLTS	HOT ZONE	OVERALL LENGTH	SHIP WGT.
		In./(mm)	In./(mm)	Lbs./(kg)
1000	120	6	11	8
	240	(152)	(279)	(3.6)
2000	240	10	17	10
	480	(254)	(432)	(4.5)
3000	240	16	23	12
	480	(406)	(584)	(5.4)
4000	240	20	29	13
	480	(508)	(737)	(5.9)
5000	240	25	35	16
	480	(635)	(889)	(7.3)
6000	240	30	40	18
	480	(762)	(1016)	(8.2)
8000	240	37	47	23
	480	(940)	(1194)	(10.4)
9000	240	44	54	24
	480	(1118)	(1372)	(10.9)
10000	240	49	59	25
	480	(1245)	(1499)	(11.3)
12000	240	58	68	29
	480	(1473)	(1727)	(13.2)

Three phases available as option.

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

SUPERIOR CHEMICAL RESISTANCE:

- ◆ For use in most aqueous alkaline solutions, 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/cm²) 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 protector 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).

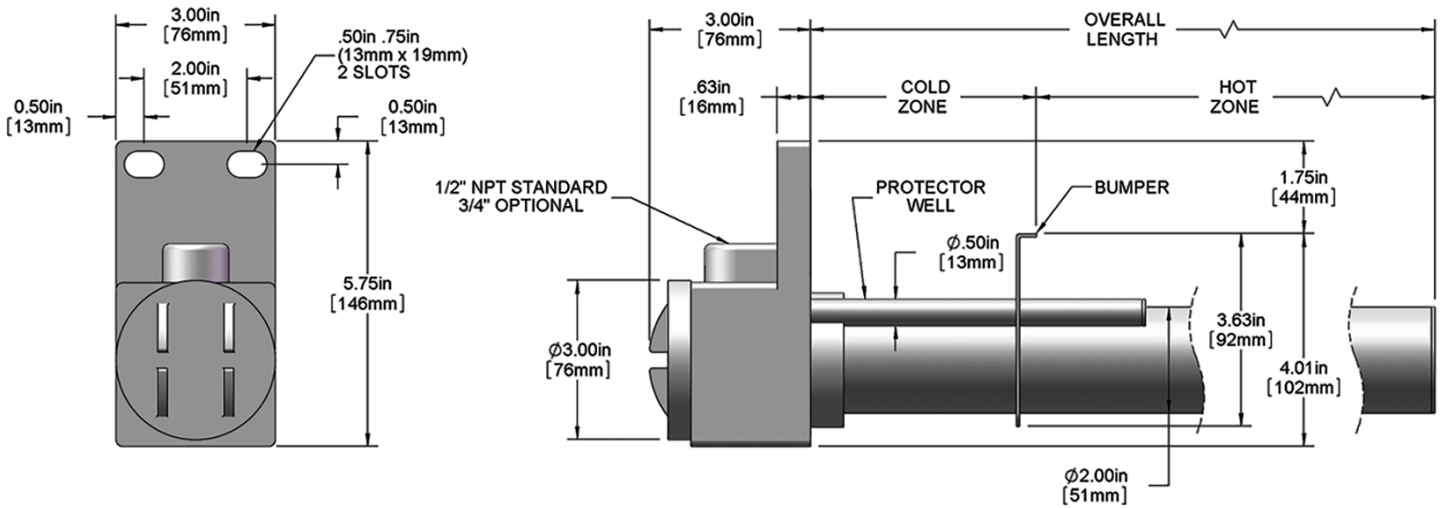
SIZES: 1,000 watts to 12,000 watts.

VOLTAGES: 120 to 600 volts.

OPTIONS AVAILABLE (consult factory):

- ◆ Replaceable thermal protector:
 - P4: for solutions up to 230°F(110°C)
 - P5: for solutions up to 300°F(149°C)
- ◆ Resettable thermal protector:
 - 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.
- ◆ All metal welded junction box.
- ◆ Temperature and level controls sized to match the heater (sold separately).

DIMENSIONS



SINGLE TUBE METAL OVER THE SIDE HEATER ORDERING INFORMATION

Series	Wattage	Voltage	Length (in.)	Options	Type of Protector	Wire and Conduit Length
	1 = 1000 2 = 2000 3 = 3000 4 = 4000 5 = 5000 6 = 6000 8 = 8000 9 = 9000 10 = 10000 12 = 12000	1 = 120 2 = 240 3 = 380 4 = 480 5 = 415 6 = 600 7 = 400 8 = 208 9 = 220 0 = 200	11 = 1kW 17 = 2kW 23 = 3kW 29 = 4kW 35 = 5kW 40 = 6kW 47 = 8kW 54 = 9kW 59 = 10kW 68 = 12kW specify custom lengths, not to exceed tank depth	P = steel F = 304 stainless steel S = 316 stainless steel T = titanium	no designator = single phase power (standard) -3 = three phase power	no designator = 36" length standard specify variations from standard Ex: -X84 = 84"
Replaceable Protector						
P1 (std)						for solutions up to 180°F
P4						for solutions up to 230°F
P5						for solutions up to 300°F
Resettable Protector						
(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

