



D SERIES, DERATED METAL HEATERS					
WATTS	VOLTS	HOT ZONE Ln./ (mm)	OVERALL LENGTH Ln./ (mm)		SHIP WGT. Lbs./ (kg)
500	120	6	11		7
	240	(152)	(279)		(3.2)
1000	240	10	17		10
	480	(254)	(432)		(4.5)
1500	240	16	23		11
	480	(406)	(584)		(5)
2000	240	20	29		13
	480	(508)	(737)		(5.9)
2500	240	25	35		15
	480	(635)	(889)		(6.8)
3000	240	30	40		17
	480	(762)	(1016)		(7.7)
4000	240	37	47		23
	480	(940)	(1194)		(10.4)
4500	240	44	54		24
	480	(1118)	(1372)		(10.9)
5000	240	49	59		25
	480	(1245)	(1499)		(11.3)
6000	240	58	68		28
	480	(1473)	(1727)		(12.7)

## D 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:

- ◆ Low watt densities of 18 watts per square inch (2.8 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 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:** 500 watts to 6,000 watts.

### VOLTAGES:

- ◆ 120 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.

Series	Wattage	Voltage	Length (in.)	Options	Type of Protector	Wire and Conduit Length
	.5 = 500 1 = 1000 1.5 = 1500 2 = 2000 2.5 = 2500 3 = 3000 4 = 4000 4.5 = 4500 5 = 5000 6 = 6000	1 = 120 2 = 240 3 = 380 4 = 480 5 = 415 6 = 600 7 = 400 8 = 208 9 = 220 0 = 200	11 = .5kW 17 = 1kW 23 = 1.5kW 29 = 2kW 35 = 2.5kW 40 = 3kW 47 = 4kW 54 = 4.5kW 59 = 5kW 68 = 6kW specify custom lengths, not to exceed tank depth			no designator = 36" length standard specify variations from standard Ex: -X84 = 84"
	DP = steel DF = 304 stainless steel DS = 316 stainless steel DT = titanium					
	no designator = single phase power (standard) -3 = three phase power					
					<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 180°F

