



D SERIES, DERATED METAL HEATERS									
WATTS	VOLTS	HOT OVERALL		STEEL	304 SS	316 SS	TITANIUM	SHIP WGT.	Lbs./ (kg)
		ZONE	LENGTH						
		In./ (mm)	In./ (mm)						
500	120	6	11	DP.5111-**	DF.5111-**	DS.5111-**	DT.5111-**	7	
	240	(155)	(280)	DP.5211-**	DF.5211-**	DS.5211-**	DT.5211-**	(3.5)	
1000	240	10	17	DP1217-**	DF1217-**	DS1217-**	DT1217-**	10	
	480	(255)	(430)	DP1417-**	DF1417-**	DS1417-**	DT1417-**	(4.5)	
1500	240	16	23	DP1.5223-**	DF1.5223-**	DS1.5223-**	DT1.5223-**	11	
	480	(405)	(585)	DP1.5423-**	DF1.5423-**	DS1.5423-**	DT1.5423-**	(5)	
2000	240	20	29	DP2229-**	DF2229-**	DS2229-**	DT2229-**	13	
	480	(510)	(735)	DP2429-**	DF2429-**	DS2429-**	DT2429-**	(6)	
2500	240	25	35	DP2.5235-**	DF2.5235-**	DS2.5235-**	DT2.5235-**	15	
	480	(635)	(890)	DP2.5435-**	DF2.5435-**	DS2.5435-**	DT2.5435-**	(7)	
3000	240	30	40	DP3240-**	DF3240-**	DS3240-**	DT3240-**	17	
	480	(760)	(1015)	DP3440-**	DF3440-**	DS3440-**	DT3440-**	(8)	
4000	240	37	47	DP4247-**	DF4247-**	DS4247-**	DT4247-**	23	
	480	(940)	(1195)	DP4447-**	DF4447-**	DS4447-**	DT4447-**	(10.5)	
4500	240	44	54	DP4.5254-**	DF4.5254-**	DS4.5254-**	DT4.5254-**	24	
	480	(1120)	(1370)	DP4.5454-**	DF4.5454-**	DS4.5454-**	DT4.5454-**	(11)	
5000	240	49	59	DP5259-**	DF5259-**	DS5259-**	DT5259-**	25	
	480	(1245)	(1500)	DP5459-**	DF5459-**	DS5459-**	DT5459-**	(11.5)	
6000	240	58	68	DP6268-**	DF6268-**	DS6268-**	DT6268-**	28	
	480	(1475)	(1730)	DP6468-**	DF6468-**	DS6468-**	DT6468-**	(13)	

Three phase available as option, add "-3" before thermal protector designator.

Product Features and Benefits:

- ◆ **SUPERIOR CHEMICAL RESISTANCE:** Materials available for use in most concentrated aqueous alkaline solutions, plating and phosphate solutions. Check solution recommendation chart or 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/cm²) extend service life.
- ◆ **CORROSION RESISTANT HEAD:** Vapor tight, flame retardant polypropylene terminal enclosure with 3-foot (.9m) flexible PVC liquid tight conduit.
- ◆ **SAFETY FEATURES:**
 - Grounded construction.
 - Thermal protector built in. Replaceable P1 fuse standard for solutions up to 180°F (82°C).
 - Non-floating construction.
- ◆ **CERTIFICATIONS:** UL listed (except steel) to U.S. and Canadian safety requirements, and CE.
- ◆ **SIZES:** 500 watts to 6,000 watts.
- ◆ **VOLTAGES:** 120, 240 or 480 volts. 208, 380, 415, 600 and other voltages available. Single phase standard, three phase available.
- ◆ **OPTIONS AVAILABLE** (consult factory):
 - Replaceable thermal protectors:
 - P4: for solutions from 180°F (82°C) to 230°F (110°C).
 - P5: for solutions from 230°F (110°C) to 300°F (150°C).
 - Resettable thermal protectors:
 - P2: for solutions up to 180°F (82°C).
 - P6: for solutions from 180°F (82°C) to 230°F (110°C).
 - P7: for solutions from 230°F (110°C) to 300°F (150°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.

