



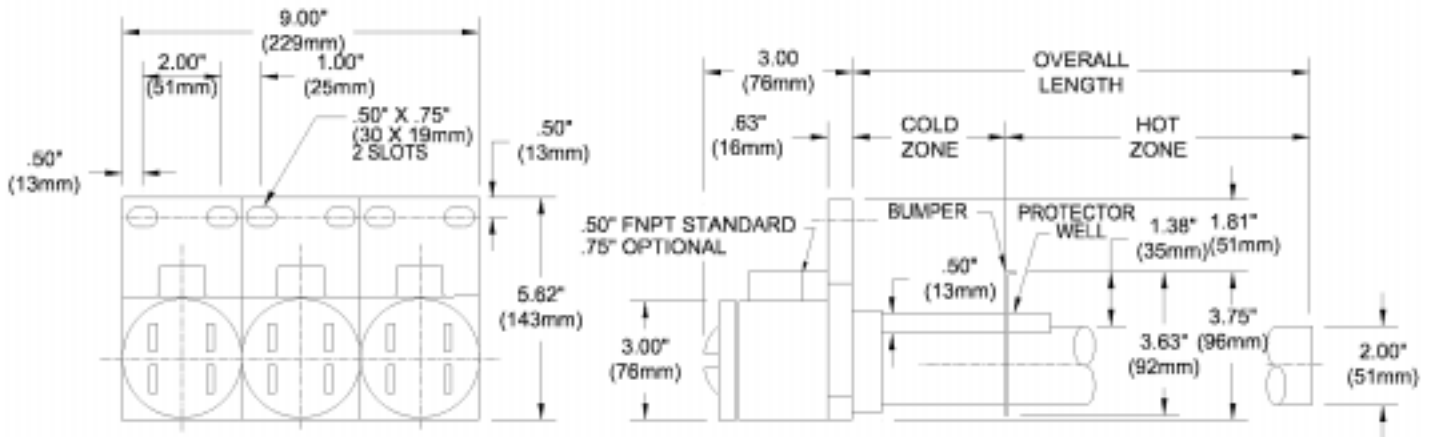
D3 SERIES, DERATED TRIPLE METAL HEATERS									
WATTS	VOLTS	HOT OVERALL		STEEL	304 SS	316 SS	TITANIUM	SHIP WGT.	Lbs./ (kg)
		ZONE	LENGTH						
		In./ (mm)	In./ (mm)						
1500	120	6	11	D3P1.5111-**	D3F1.5111-**	D3S1.5111-**	D3T1.5111-**	21	
	240	(155)	(280)	D3P1.5211-**	D3F1.5211-**	D3S1.5211-**	D3T1.5211-**	(9.5)	
3000	240	10	17	D3P3217-**	D3F3217-**	D3S3217-**	D3T3217-**	30	
	480	(255)	(430)	D3P3417-**	D3F3417-**	D3S3417-**	D3T3417-**	(14)	
4500	240	16	23	D3P4.5223-**	D3F4.5223-**	D3S4.5223-**	D3T4.5223-**	33	
	480	(405)	(585)	D3P4.5423-**	D3F4.5423-**	D3S4.5423-**	D3T4.5423-**	(15)	
6000	240	20	29	D3P6229-**	D3F6229-**	D3S6229-**	D3T6229-**	39	
	480	(510)	(735)	D3P6429-**	D3F6429-**	D3S6429-**	D3T6429-**	(18)	
7500	240	25	35	D3P7.5235-**	D3F7.5235-**	D3S7.5235-**	D3T7.5235-**	45	
	480	(635)	(890)	D3P7.5435-**	D3F7.5435-**	D3S7.5435-**	D3T7.5435-**	(20.5)	
9000	240	30	40	D3P9240-**	D3F9240-**	D3S9240-**	D3T9240-**	51	
	480	(760)	(1015)	D3P9440-**	D3F9440-**	D3S9440-**	D3T9440-**	(23)	
12000	240	37	47	D3P12247-**	D3F12247-**	D3S12247-**	D3T12247-**	63	
	480	(940)	(1195)	D3P12447-**	D3F12447-**	D3S12447-**	D3T12447-**	(28.5)	
13500	240	44	54	D3P13.5254-**	D3F13.5254-**	D3S13.5254-**	D3T13.5254-**	69	
	480	(1120)	(1370)	D3P13.5454-**	D3F13.5454-**	D3S13.5454-**	D3T13.5454-**	(31)	
15000	240	49	59	D3P15259-**	D3F15259-**	D3S15259-**	D3T15259-**	75	
	480	(1245)	(1500)	D3P15459-**	D3F15459-**	D3S15459-**	D3T15459-**	(34)	
18000	240	58	68	D3P18268-**	D3F18268-**	D3S18268-**	D3T18268-**	84	
	480	(1475)	(1730)	D3P18468-**	D3F18468-**	D3S18468-**	D3T18468-**	(38)	

Standard units consist of three individual elements, each with its own conduit. Single head with single conduit (3 phase wiring standard) available at same price, add "-3" before thermal protector designator for three phase or "-1" for single head wired for single phase.

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 HEADS:** Vapor tight, flame retardant polypropylene terminal enclosures each with 3-foot (.9m) flexible PVC liquid tight conduits.
- ◆ **SAFETY FEATURES:**
 - Grounded construction.
 - Thermal protector built in. Replaceable PI fuse standard for solutions up to 180°F (82°C).
 - Non-floating construction.
- ◆ **CERTIFICATIONS:** UL (Except steel sheath), CSA, and CE.
- ◆ **SIZES:** 1,500 watts to 18,000 watts.
- ◆ **VOLTAGES:** 120, 240 or 480 volts. 208, 380, 415, 600 and other voltages available. Each head is single phase standard. May be wired together as single or three phase.
- ◆ **OPTIONS AVAILABLE (consult factory):**
 - Replaceable thermal protectors:
 - PIM: for solutions from 180°F (82°C) to 230°F (110°C).
 - PIH: for solutions from 230°F (110°C) to 300°F (150°C).
 - Resettable thermal protectors:
 - PII: for solutions up to 180°F (82°C).
 - PIIM: for solutions from 180°F (82°C) to 230°F (110°C).
 - PIIH: for solutions from 230°F (110°C) to 300°F (150°C).
 - Special configurations and lengths.
 - One common head (terminal enclosure) with single conduit for single or three phase.
 - Longer wire and conduit lengths.
 - Lower watt densities for highly viscous solutions.
 - Temperature and level controls sized to match the heater.

DIMENSIONS



DERATED TRIPLE TUBE METAL OVER THE SIDE HEATER ORDERING INFORMATION

Series	Wattage	Voltage	Length	Options	Type of Fuse	Wire and Conduit Length
	1.5 = 1500 3 = 3000 4.5 = 4500 6 = 6000 7.5 = 7500 9 = 9000 12 = 12000 13.5 = 13500 15 = 15000 18 = 18000	1 = 120 2 = 240 4 = 480 -208- = 208 -380- = 380 -415- = 415 -600- = 600	11 = 1.5kW 17 = 3kW 23 = 4.5kW 29 = 6kW 35 = 7.5kW 40 = 9kW 47 = 12kW 54 = 13.5kW 59 = 15kW 68 = 18kW specify custom lengths, not to exceed tank depth	D3P = steel D3F = 304 stainless steel D3S = 316 stainless steel D3T = titanium	-X = any special configuration not called out in the part number (specify in clear text) no designator = three phase power (standard) -1 = single phase power -3 = three phase wiring with single head and single conduit	no designator = 36" length standard specify variations from standard Ex: -X84 = 84"
					Replaceable Fuse	
					-PI (std)	for solutions up to 180°F
					-PIM	for 180° - 230°F solutions
					-PIH	for 230° - 300°F solutions
					Resettable Fuse	(additional control components required)
					-PII	for solutions up to 180°F
					-PIIM	for 180° - 230°F solutions
					-PIIH	for 230° - 300°F solutions

ORDERING EXAMPLE:

D3F12447-PIM-X72

Derated, triple tube, 304 stainless steel, 12,000 watts, 480 volt, 47" long, PIM fuse, 72" wire and conduit

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