

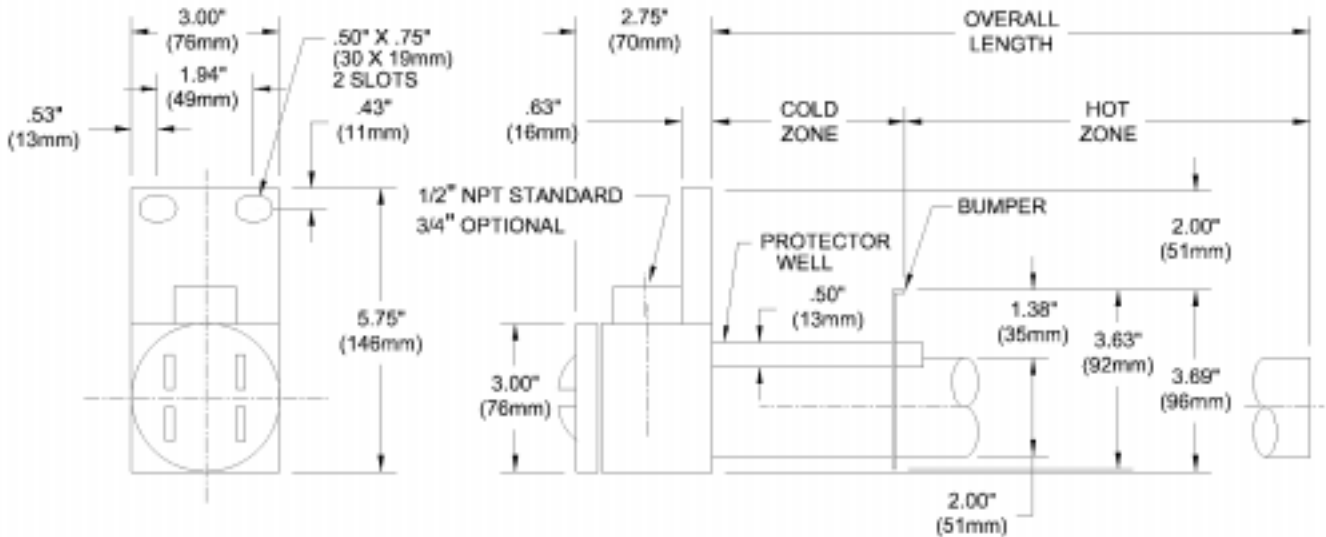
DEEP TANK, METAL HEATERS										
WATTS	VOLTS	HOT ZONE		OVERALL LENGTH		STEEL	304 SS	316 SS	TITANIUM	SHIP WGT. Lbs./(kg)
		In./(mm)	In./(mm)	In./(mm)	In./(mm)					
12000	240	58	96	P12296-**	F12296-**	S12296-**	T12296-**		37	
	480	(1475)	(2440)	P12496-**	F12496-**	S12496-**	T12496-**		(17)	
12000	240	58	120	P122120-**	F122120-**	S122120-**	T122120-**		45	
	480	(1475)	(3050)	P124120-**	F124120-**	S124120-**	T124120-**		(20)	
12000	240	58	144	P122144-**	F122144-**	S122144-**	T122144-**		53	
	480	(1475)	(3655)	P124144-**	F124144-**	S124144-**	T124144-**		(24)	
15000	240	76	96	P15296-**	F15296-**	S15296-**	T15296-**		37	
	480	(1930)	(2440)	P15496-**	F15496-**	S15496-**	T15496-**		(17)	
15000	240	76	120	P152120-**	F152120-**	S152120-**	T152120-**		45	
	480	(1930)	(3050)	P154120-**	F154120-**	S154120-**	T154120-**		(20)	
15000	240	76	144	P152144-**	F152144-**	S152144-**	T152144-**		53	
	480	(1930)	(3655)	P154144-**	F154144-**	S154144-**	T154144-**		(24)	
18000	240	82	96	P18296-**	F18296-**	S18296-**	T18296-**		37	
	480	(2085)	(2440)	P18496-**	F18496-**	S18496-**	T18496-**		(17)	
18000	240	82	120	P182120-**	F182120-**	S182120-**	T182120-**		45	
	480	(2085)	(3050)	P184120-**	F184120-**	S184120-**	T184120-**		(20)	
18000	240	82	144	P182144-**	F182144-**	S182144-**	T182144-**		53	
	480	(2085)	(3655)	P184144-**	F184144-**	S184144-**	T184144-**		(24)	

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

Product Features and Benefits:

- ◆ **SUPERIOR CHEMICAL RESISTANCE:** Materials available for use in most aqueous alkaline solutions, plating solutions, and rinse tanks. 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:** Watt densities of 35 watts per square inch (5.4 w/cm²) ensure long 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 PI fuse standard for solutions up to 180°F (82°C).
 - Non-floating construction.
- ◆ **CERTIFICATIONS:** UL (Except steel sheath), CSA, and CE.
- ◆ **SIZES:** 12,000 watts to 18,000 watts.
- ◆ **VOLTAGES:** 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:
 - 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.
 - Longer wire and conduit lengths.
 - Lower watt densities for highly viscous solutions.
 - Temperature and level controls sized to match the heater.

DIMENSIONS



SINGLE TUBE DEEP TANK METAL OVER THE SIDE HEATER ORDERING INFORMATION

Series	Wattage	Voltage	Length (in.)	Options	Type of Fuse	Wire and Conduit Length																		
P = Steel F = 304SS Stainless Steel S = 316SS Stainless Steel T = Titanium	12 = 12000 12 = 12000 12 = 12000 15 = 15000 15 = 15000 15 = 15000 15 = 15000 18 = 18000 18 = 18000 18 = 18000	2 = 240 4 = 480 -208- = 208 -277- = 277 -380- = 380 -415- = 415 -600- = 600	96 = 12kW 120 = 12kW 144 = 12kW 96 = 12kW 120 = 12kW 144 = 12kW 96 = 12kW 120 = 12kW 144 = 12kW specify custom lengths, not to exceed tank depth	-X = any special configuration not called out in the part number (specify in clear text) no designator = single phase power (standard) -3 = three phase power	no designator = 36" length standard specify variations from standard Ex: -X84 = 84"	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">Replaceable Fuse</th> </tr> </thead> <tbody> <tr> <td style="width: 20%;">-PI (std)</td> <td>for solutions up to 180°F</td> </tr> <tr> <td>-PIM</td> <td>for 180° - 230°F solutions</td> </tr> <tr> <td>-PIH</td> <td>for 230° - 300°F solutions</td> </tr> <tr> <th colspan="2" style="text-align: center;">Resettable Fuse</th> </tr> <tr> <td colspan="2" style="text-align: center;">(additional control components required)</td> </tr> <tr> <td>-PII</td> <td>for solutions up to 180°F</td> </tr> <tr> <td>-PIIM</td> <td>for 180° - 230°F solutions</td> </tr> <tr> <td>-PIIH</td> <td>for 230° - 300°F solutions</td> </tr> </tbody> </table>	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
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ORDERING EXAMPLE:

S12496-3-PI

Over-the-side, 316 stainless steel, 12,000 watts, 480 volt, 96" overall length, 3 phase, PI fuse.

