

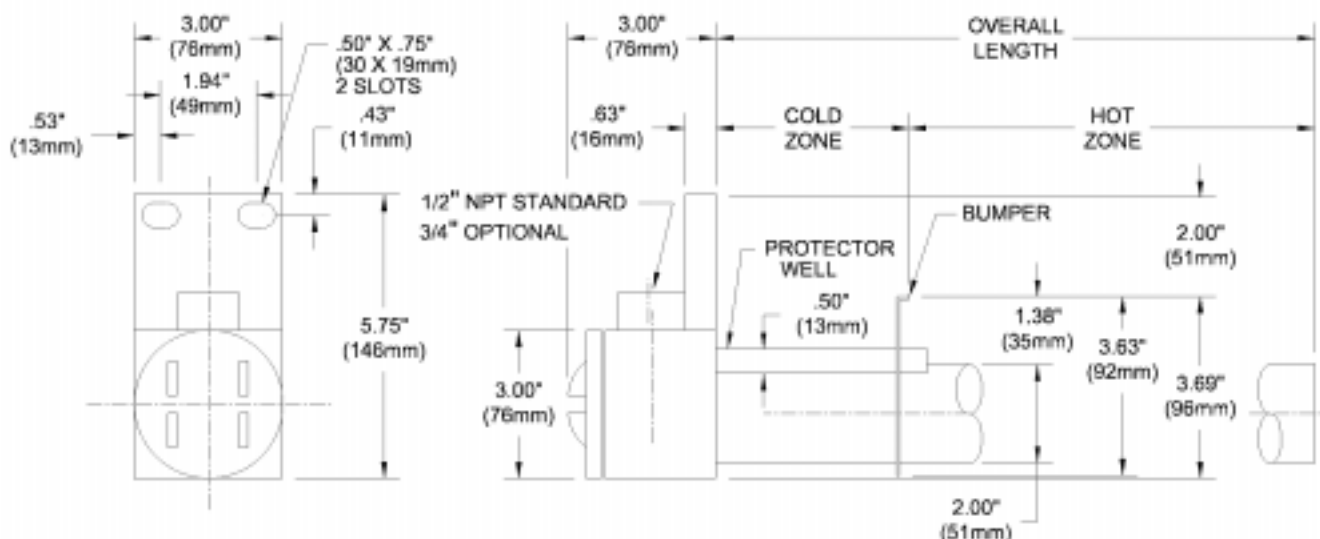
| P, F, S, and T SERIES, METAL HEATERS | | | | | | | | | |
|--------------------------------------|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| WATTS | VOLTS | HOT | OVERALL | STEEL | 304 SS | 316 SS | TITANIUM | SHIP WGT. | Lbs./ (kg) |
| | | ZONE | LENGTH | | | | | | |
| | | Ln./ (mm) | Ln./ (mm) | | | | | | |
| 1000 | 120 | 6 | 11 | P1111-** | F1111-** | S1111-** | T1111-** | 7 | |
| | 240 | (155) | (280) | P1211-** | F1211-** | S1211-** | T1211-** | (3.5) | |
| 2000 | 120 | 10 | 17 | P2117-** | F2117-** | S2117-** | T2117-** | 10 | |
| | 240 | (255) | (430) | P2217-** | F2217-** | S2217-** | T2217-** | (4.5) | |
| | 480 | | | P2417-** | F2417-** | S2417-** | T2417-** | | |
| 3000 | 240 | 16 | 23 | P3223-** | F3223-** | S3223-** | T3223-** | 11 | |
| | 480 | (405) | (585) | P3423-** | F3423-** | S3423-** | T3423-** | (5) | |
| 4000 | 240 | 20 | 29 | P4229-** | F4229-** | S4229-** | T4229-** | 13 | |
| | 480 | (510) | (735) | P4429-** | F4429-** | S4429-** | T4429-** | (6) | |
| 5000 | 240 | 25 | 35 | P5235-** | F5235-** | S5235-** | T5235-** | 15 | |
| | 480 | (635) | (890) | P5435-** | F5435-** | S5435-** | T5435-** | (7) | |
| 6000 | 240 | 30 | 40 | P6240-** | F6240-** | S6240-** | T6240-** | 17 | |
| | 480 | (760) | (1015) | P6440-** | F6440-** | S6440-** | T6440-** | (8) | |
| 8000 | 240 | 37 | 47 | P8247-** | F8247-** | S8247-** | T8247-** | 23 | |
| | 480 | (940) | (1195) | P8447-** | F8447-** | S8447-** | T8447-** | (10.5) | |
| 9000 | 240 | 44 | 54 | P9254-** | F9254-** | S9254-** | T9254-** | 24 | |
| | 480 | (1120) | (1370) | P9454-** | F9454-** | S9454-** | T9454-** | (11) | |
| 10000 | 240 | 49 | 59 | P10259-** | F10259-** | S10259-** | T10259-** | 25 | |
| | 480 | (1245) | (1500) | P10459-** | F10459-** | S10459-** | T10459-** | (11.5) | |
| 12000 | 240 | 58 | 68 | P12268-** | F12268-** | S12268-** | T12268-** | 28 | |
| | 480 | (1475) | (1730) | P12468-** | F12468-** | S12468-** | T12468-** | (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 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:** 1,000 watts to 12,000 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:
 - 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 METAL OVER THE SIDE HEATER ORDERING INFORMATION

| Series | Wattage | Voltage | Length | Options | Type of Fuse | 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 4 = 480 -208- = 208 -380- = 380 -415- = 415 -600- = 600 | 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 | | | no designator = 36" length standard specify variations from standard Ex: -X84 = 84" wire and conduit | | | | | | | | | | | | | | | | | | |
| | P = steel F = 304 stainless steel S = 316 stainless steel T = titanium | | | | | <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 |
| 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 | | | | | | | | | | | | | | | | | | | | | | | |
| | -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 | | | | | | | | | | | | | | | | | | | | | | | |

ORDERING EXAMPLE:

T12468-PIM-X84

Titanium, 12,000 watts, 480 volt, 68" overall length, PIM fuse, 84" wire and conduit.

www.oemheaters.com

Toll Free: (866) 685-4443

Email: info@oemheaters.com