Typical Applications
For plating tanks, phosphatizing and concentrated aqueous solutions. Check compatibility guide on pages 11-88 and 11-89 and with chemical supplier for proper sheath material selection.

Design Features
- 18 and 35 watts/in² (2.8 and 5.5 watts/cm²) for long service life
- Low watt density for extended service
- Heavy duty, long lasting construction
- T1 thermal fuse protection standard; T2 bi-metal switch optional
- Grounded for safety
- UL listed except plain steel; for US and Canada
- Vapor-tight polypropylene terminal enclosure with universal mounting bracket
- Standard 3-ft. flexible PVC liquid-tight conduit
- Standard design includes a common wiring terminal enclosure with a single conduit hub for external connections; power wiring from the three tubes can be configured single- or three-phase.
- 120, 240, 480 volts standard as listed — other voltages available
- Longer lengths available; consult Tempco

### Ordering Code: T M M 2

**Type:** TMM2

**Material**
- A – Steel
- B – 304 SS
- C – 316 SS
- T – Titanium

**Length (in.)**

**Hot Zone (in.)**

**Watts ÷ 100**

**Phase:** 1

**Voltage**
- 1 – 120
- 2 – 240
- 4 – 480

**Thermal Over-Temperature Protection**

**Thermal Fuse**
- 1L – Solutions up to 180°F
- 1M – Solutions from 180°F to 220°F
- 1H – Solutions from 220°F to 300°F

**Bi-Metal Switch**
- 2L – Solutions up to 180°F
- 2M – Solutions from 180°F to 220°F
- 2H – Solutions from 220°F to 300°F

### Standard Watts vs. Length and Hot Zone

<table>
<thead>
<tr>
<th>Watts</th>
<th>Hot Zone</th>
<th>Length</th>
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</thead>
<tbody>
<tr>
<td>High</td>
<td>Low</td>
<td>in</td>
</tr>
<tr>
<td>3000</td>
<td>1500</td>
<td>6</td>
</tr>
<tr>
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<td>3000</td>
<td>10</td>
</tr>
<tr>
<td>9000</td>
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</tr>
<tr>
<td>42000</td>
<td>21000</td>
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</tr>
</tbody>
</table>

**Conduit Length (in.)**
- 36” standard

**Thermal Over-Temperature Protection**

**Thermal Fuse**
- 1L – Solutions up to 180°F
- 1M – Solutions from 180°F to 220°F
- 1H – Solutions from 220°F to 300°F

**Bi-Metal Switch**
- 2L – Solutions up to 180°F
- 2M – Solutions from 180°F to 220°F
- 2H – Solutions from 220°F to 300°F

**Ordering Information**
TMM2 heaters are offered with the options listed in this worksheet. Create an ordering code by filling in the blanks with the appropriate number and/or letter designation for your requirements, and a part number will be assigned.

**Standard lead time is 2 to 3 weeks.**

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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