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

Design Features
✴ 35 watts/in² (5.5 watts/cm²) for long service life
✴ Space-saving vertical configuration
✴ Bottom mount design for even heating and varying solution levels
✴ Standard 2” sludge legs (longer available)
✴ 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
✴ Standard 3-ft. flexible PVC liquid-tight conduit
✴ Three-Phase standard; single-phase available as option
✴ 240, 480 volts standard as listed — other voltages available
✴ Longer and shorter vertical lengths available; consult Tempco

Ordering Code: TMM5

Type: TMM5

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

Hot Zone (in.) Horizontal
Watts + 100
Phase: 1 or 3

Vertical Length (in.)

Standard Watts vs. Length

<table>
<thead>
<tr>
<th>Watts</th>
<th>Hot Zone</th>
<th>V. Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>3000</td>
<td>13 330</td>
<td>19 483</td>
</tr>
<tr>
<td>6000</td>
<td>17 432</td>
<td>37 940</td>
</tr>
<tr>
<td>9000</td>
<td>22 559</td>
<td>37 940</td>
</tr>
<tr>
<td>12000</td>
<td>26 660</td>
<td>37 940</td>
</tr>
<tr>
<td>15000</td>
<td>31 787</td>
<td>37 940</td>
</tr>
<tr>
<td>18000</td>
<td>36 914</td>
<td>50 1270</td>
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<tr>
<td>24000</td>
<td>44 1118</td>
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</tr>
<tr>
<td>27000</td>
<td>50 1270</td>
<td>50 1270</td>
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<tr>
<td>30000</td>
<td>55 1397</td>
<td>50 1270</td>
</tr>
<tr>
<td>36000</td>
<td>64 1626</td>
<td>50 1270</td>
</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

Standard lead time is 2 to 3 weeks.

Ordering Information
TMM5 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.

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

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.