**FEATURES**

For use in most aqueous alkaline solutions, plating and phosphate tanks. Check solution recommendation chart with your chemical supplier for proper sheath material selection.

Heavy wall metal sheaths available in: steel, 304 stainless steel, 316 stainless steel, titanium.

Watt densities up to 18 watts per square inch (2.7 w/cm²) ensure long service life.

Vapor-resistant, flame retardant polypropylene terminal enclosure with 3 ft (9m) flexible PVC liquid tight conduit.

Temperature and level controls sized to match the heater.

Lower watt densities for highly viscous solutions.

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**Data Sheet**

Durable, efficient chemical heater. Available in Steel, 304 Stainless Steel, 316 Stainless Steel, and Titanium.

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**DL SERIES, DERATED METAL L-SHAPED HEATERS**

<table>
<thead>
<tr>
<th>WATTS</th>
<th>VOLS</th>
<th>HORIZ. (in)</th>
<th>VERT.* (in)</th>
<th>STEEL</th>
<th>304 SS</th>
<th>316 SS</th>
<th>TITANIUM</th>
<th>SHIP WGF. (lbs)</th>
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<tbody>
<tr>
<td>500</td>
<td>120</td>
<td>13</td>
<td>15</td>
<td>DLP5113-R**</td>
<td>DLF5113-R**</td>
<td>DLS5113-R**</td>
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<td>120</td>
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<td>19</td>
<td>DLP1117-R**</td>
<td>DLF1117-R**</td>
<td>DLS1117-R**</td>
<td>DLT1117-R**</td>
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<tr>
<td>1500</td>
<td>120</td>
<td>22</td>
<td>25</td>
<td>DLP1.5122-R**</td>
<td>DLF1.5122-R**</td>
<td>DLS1.5122-R**</td>
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<td>2000</td>
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<td>26</td>
<td>25</td>
<td>DLP2226-R**</td>
<td>DLF2226-R**</td>
<td>DLS2226-R**</td>
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<td>2500</td>
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<td>31</td>
<td>37</td>
<td>DLP2.5231-R**</td>
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<td>DLS2.5231-R**</td>
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<td>DLS3236-R**</td>
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<td>3500</td>
<td>240</td>
<td>44</td>
<td>59</td>
<td>DLP4244-R**</td>
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<td>DLS4244-R**</td>
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<td>4000</td>
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<td>50</td>
<td>59</td>
<td>DLP5250-R**</td>
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<td>DLS5250-R**</td>
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<td>4500</td>
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<td>DLP6264-R**</td>
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<td>DLP8280-R**</td>
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<td>6000</td>
<td>240</td>
<td>90</td>
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<td>DLP9290-R**</td>
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**Temperature:** Up to 180°C

**Watts:** 500 to 6,000

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Single phase standard
Derated Single L Shaped Metal Bottom Heater

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Wattages</th>
<th>500 Watts to 6,000 Watts</th>
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<tbody>
<tr>
<td>Voltages</td>
<td>120 volts to 600 volts, (600V on 4,500W or lower only)</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>Up to 180º C (82º F)</td>
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</tbody>
</table>

Options

- Special configurations & lengths
- Longer wire and conduit lengths
- All metal welded junction box

Safety Features

- Grounded construction
- Thermal protector built in.
- Replaceable PI protector standard for solutions up to 180º F (82º C).
- See chart below for options

DIMENSIONS

MODEL NUMBER BREAKDOWN

<table>
<thead>
<tr>
<th>DLP</th>
<th>3</th>
<th>3</th>
<th>36</th>
<th>-R17</th>
<th>-</th>
<th>P4</th>
<th>-</th>
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<tbody>
<tr>
<td>Series</td>
<td>Wattage</td>
<td>Voltage</td>
<td>Horizontal Length (in.)</td>
<td>Vertical Length (in.)</td>
<td>Riser Option</td>
<td>Phase</td>
<td>Type of Protector</td>
</tr>
<tr>
<td>DLP = Steel</td>
<td>5 = 500</td>
<td>1 = 120</td>
<td>13 = .5kW</td>
<td>Blank = 90° horizontal bend (std)</td>
<td>Blank = single phase (std)</td>
<td>Replaceable Fuse</td>
<td>Specify variations from standard to other than 1/4&quot; or 1/2&quot;</td>
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<tr>
<td>DLP = 304 stainless steel</td>
<td>1 = 1000</td>
<td>2 = 240</td>
<td>11 = 1kW</td>
<td>Blank = single phase (std)</td>
<td>Blank = single phase (std)</td>
<td>Replaceable Fuse</td>
<td>Specify variations from standard to other than 1/4&quot; or 1/2&quot;</td>
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<tr>
<td>DLP = 316 stainless steel</td>
<td>1.5 = 1500</td>
<td>2 = 240</td>
<td>1.5 = 1.5kW</td>
<td>Blank = single phase (std)</td>
<td>Blank = single phase (std)</td>
<td>Replaceable Fuse</td>
<td>Specify variations from standard to other than 1/4&quot; or 1/2&quot;</td>
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<tr>
<td>DLP = Titanium</td>
<td>2 = 2000</td>
<td>3 = 380</td>
<td>2 = 2kW</td>
<td>Blank = single phase (std)</td>
<td>Blank = single phase (std)</td>
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<td>Specify variations from standard to other than 1/4&quot; or 1/2&quot;</td>
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<td>DLP = Titanium</td>
<td>2.5 = 2500</td>
<td>4 = 480</td>
<td>2.5 = 2.5kW</td>
<td>Blank = single phase (std)</td>
<td>Blank = single phase (std)</td>
<td>Replaceable Fuse</td>
<td>Specify variations from standard to other than 1/4&quot; or 1/2&quot;</td>
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<tr>
<td>DLP = Titanium</td>
<td>3 = 3000</td>
<td>5 = 600</td>
<td>3 = 3kW</td>
<td>Blank = single phase (std)</td>
<td>Blank = single phase (std)</td>
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<td>Specify variations from standard to other than 1/4&quot; or 1/2&quot;</td>
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<tr>
<td>DLP = Titanium</td>
<td>3.5 = 4500</td>
<td>6 = 900</td>
<td>3.5 = 3.5kW</td>
<td>Blank = single phase (std)</td>
<td>Blank = single phase (std)</td>
<td>Replaceable Fuse</td>
<td>Specify variations from standard to other than 1/4&quot; or 1/2&quot;</td>
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<tr>
<td>DLP = Titanium</td>
<td>4 = 5000</td>
<td>7 = 1200</td>
<td>4 = 4kW</td>
<td>Blank = single phase (std)</td>
<td>Blank = single phase (std)</td>
<td>Replaceable Fuse</td>
<td>Specify variations from standard to other than 1/4&quot; or 1/2&quot;</td>
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