**IMMERSION HEATERS**

**HEAVY-DUTY OVER-THE-SIDE IMMERSION HEATERS**

TLC and KTLC Series: Copper sheath heating elements for clean water.

TLS and KTLS Series: Stainless steel sheath heating elements for mild corrosive solutions.

TLI and KTLI Series: Incoloy sheath and riser heating elements for corrosive fluids.

TLO and KTLO Series: Steel sheath heating elements for medium weight oils.

Optional Thermostat Kits: Containing OMEGALUX® AR-type thermostat and mounting hardware are available to fit in heater terminal box.

Lightweight, portable, easy to install L-shape construction, puts the heat at the bottom of the tank and the terminal enclosure at the top of the tank. These heaters are convenient answers for many immersion heating applications. Capacities, dimensions and sheaths fit a wide range of heating applications. Easy to install and remove for cleaning with straight or circular element designs to fit many tank configurations.

**FEATURES**

- Copper Sheath and Riser (40 W/in²)
- Steel Sheath and Riser (20 W/in²)
- Stainless Steel Sheath and Riser (40 W/in²)
- Incoloy Sheath and Riser (40 W/in²)
- 91 and 122 cm (36 and 48") Riser Heights
- Moisture Resistant Terminal Enclosure
- Thermowell
- 10 cm (4") Sludge Legs Increases A Dimension 8.9 cm (3½") Keeping Heated Section off Bottom of Tank

**Construction:** All wetted parts of these immersions heaters are made of the same metal or alloy for optimum corrosion resistance.

All gasketed terminal boxes are steel, coated with acid resistant paint finish.

**Corrosion Resistance:** Wide choice of sheath materials should provide corrosion resistance in heating liquids. Check chemical composition of solution before selecting sheath material.

Sludge legs, or compatible metals, keep heated section off bottom of vessel, 10 cm (4") standard height. Included with each heater [increases A Dimension by 8.9 cm (3½")]. Sludge legs are standard on all heaters.

**Dimensions:**

**Straight Elements**

- 1 NPT Conduit Opening 1-1/2" (3.8)
- 1-1/2" (11)
- 0.475" Dia. Elements (1.2)
- View (cover removed)

**Circular Elements**

- 1 NPT Conduit Opening 1-1/2" (3.8)
- 4-1/2 (11)
- 0.475" Dia. Elements (1.2)
- View (cover removed)

**Section A-A**

- Min. Tank Clearance

**Dimensions:**

- in (cm)
- 4-1/2 (10.3)
- 8-5/16 (21.1)
- 1-1/2 (3.8)
- 11-1/2 (29)

To Order, Call 1-800-USA-HEAT or Shop Online at omega.com™

**Most Popular Models Highlighted!**

**Optional Thermostat Kits**

<table>
<thead>
<tr>
<th>Thermostat Kit</th>
<th>Temperature Range</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR-115-KIT-4</td>
<td>0-100°F</td>
<td>$190</td>
</tr>
<tr>
<td>AR-219-KIT-4</td>
<td>60-250°F</td>
<td>$190</td>
</tr>
<tr>
<td>AR-519-KIT-4*</td>
<td>200-550°F</td>
<td>$190</td>
</tr>
</tbody>
</table>

* Note: Not UL Listed or CSA Certified with 200-550°F Thermostat Kit.

**Caution:** Contact OMEGALUX® when bath temperatures exceed 400°F in any given application.
OVER-THE-SIDE IMMERSION HEATERS
FOR CLEAN WATER APPLICATIONS

FEATURES
These heaters are lightweight and portable and provide convenient solutions to many heating applications. TLC Series heaters have two or three straight heating elements, while KTLC Series heaters have two or three curved heating elements.

APPLICATIONS
For clean water heating applications (pH 6 to 8).

SPECIFICATIONS
Wattage: 2 to 18 kW
Power: 120, 240, 480V, 1 and 3 phase
Watt Density: 40W/in²

CAUTION AND WARNING!
Fire and electrical shock may result if products are used improperly or installed or used by non-qualified personnel. See inside back cover for additional warnings.

To Order (Specify Model Number)

<table>
<thead>
<tr>
<th>kW</th>
<th>Min. Tank Clearance (B) – cm (in)</th>
<th>Min. Tank Clearance (B) – cm (in)</th>
<th>Price</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two Elements — Copper, 40 W/in²</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>2</td>
<td>91 (36) 31 (12 1⁄4)</td>
<td>TCL-220A-036/120 1100</td>
<td>27 (10 1⁄2)</td>
<td>KTLC-220A-036/120 1100</td>
</tr>
<tr>
<td>4</td>
<td>91 (36) 57 (22 1⁄4)</td>
<td>TCL-240A-036/120 1250</td>
<td>35 (13 1⁄2)</td>
<td>KTLC-240A-036/120 1250</td>
</tr>
<tr>
<td>6</td>
<td>91 (36) 75 (29 1⁄4)</td>
<td>TCL-260A-036/120 1300</td>
<td>41 (16 1⁄2)</td>
<td>KTLC-260A-036/120 1300</td>
</tr>
<tr>
<td>8</td>
<td>121 (48) 75 (29 1⁄2)</td>
<td>TCL-260TI-048/240 1350</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>10</td>
<td>121 (48) 103 (41 1⁄2)</td>
<td>TCL-210A-048/240 1400</td>
<td>54 (21 1⁄2)</td>
<td>KTLC-210A-048/240 1400</td>
</tr>
<tr>
<td>12</td>
<td>121 (48) 133 (52 1⁄2)</td>
<td>TCL-212A-048/240 1450</td>
<td>59 (23 1⁄2)</td>
<td>KTLC-212A-048/240 1450</td>
</tr>
</tbody>
</table>

| Three Elements — Copper, 40 W/in² |
| 3  | 91 (36) 31 (12 1⁄4)              | TCL-330A-036/120 1250            | 27 (10 1⁄2) | KTLC-330A-036/120 1250 |
| 6  | 91 (36) 57 (22 1⁄4)              | TCL-360A-036/120 1400            | 35 (13 1⁄2) | KTLC-360A-036/120 1400 |
| 9  | 91 (36) 75 (29 1⁄4)              | TCL-390A-036/120 1500            | 41 (16 1⁄2) | KTLC-390A-036/120 1500 |
| 12 | 121 (48) 95 (37 1⁄2)             | TCL-312A-048/240 1600            | 47 (18 1⁄2) | KTLC-312A-048/240 1600 |
| 15 | 121 (48) 133 (52 1⁄2)            | TCL-318A-048/240 1800            | 60 (23 1⁄2) | KTLC-318A-048/240 1800 |
| 18 | 121 (48) 133 (52 1⁄2)            | TCL-318A-048/480 1800           | 60 (23 1⁄2) | KTLC-318A-048/480 1800 |

* To designate voltage, insert “-240” for 240V or “-480” for 480V. ** Add the suffix “3P” to model number for 3 phase power.

More than 100,000 Products Available!

- **Temperature**

- **Flow and Level**
  Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

- **pH and Conductivity**
  Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

- **Data Acquisition**

- **Pressure, Strain and Force**
  Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

- **Heaters**