**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:
  - Plain Steel
  - 304 stainless steel
  - 316 stainless steel
  - Titanium

**LONG-LASTING PERFORMANCE:**
- Watt densities of 35 watts per square inch (5.4 cm²) ensure long service life.

**CORROSION RESISTANT HEAD:**
- Vapor resistant, flame retardant polypropylene terminal enclosure with 3-foot (.9m) flexible PVC liquid tight conduit.

**SAFETY FEATURES:**
- Grounded construction.
- Thermal protection built in. Resettable P2 protector standard for solutions up to 180°F (82°C).

**CERTIFICATIONS:**
- cULus listed and CE compliant (except 600 volts).

**SIZES:**
- 18,000 watts to 54,000 watts.

**VOLTAGES:**
- 240 to 600 volts. Three phase standard, single phase available. Some amperage limitations apply, consult factory.

**OPTIONS AVAILABLE (consult factory):**
- Resettable thermal protectors:
  - P6: for solutions from up to 230°F (110°C)
  - Longer vertical lengths (cold zones).
  - Special configurations.
  - Longer wire and conduit lengths.
  - Lower watt densities for highly viscous solutions.
  - Temperature and level controls sized to match the heater.
  - All metal welded junction box.

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**3V SERIES, TRIPLE METAL DEEP TANK HEATERS**

<table>
<thead>
<tr>
<th>WATTS</th>
<th>VOLTS</th>
<th>THREE TUBE LENGTH</th>
<th>STEEL</th>
<th>304 SS</th>
<th>316 SS</th>
<th>TITANIUM</th>
</tr>
</thead>
<tbody>
<tr>
<td>18000</td>
<td>240</td>
<td>36 (914)</td>
<td>3VP18236-R**</td>
<td>3VF18236-R**</td>
<td>3VS18236-R**</td>
<td>3VT18236-R**</td>
</tr>
<tr>
<td>24000</td>
<td>240</td>
<td>44 (1118)</td>
<td>3VP24244-R**</td>
<td>3VF24244-R**</td>
<td>3VS24244-R**</td>
<td>3VT24244-R**</td>
</tr>
<tr>
<td>27000</td>
<td>480</td>
<td>50 (1270)</td>
<td>3VP27450-R**</td>
<td>3VF27450-R**</td>
<td>3VS27450-R**</td>
<td>3VT27450-R**</td>
</tr>
<tr>
<td>30000</td>
<td>480</td>
<td>55 (1397)</td>
<td>3VP30455-R**</td>
<td>3VF30455-R**</td>
<td>3VS30455-R**</td>
<td>3VT30455-R**</td>
</tr>
<tr>
<td>36000</td>
<td>480</td>
<td>64 (1626)</td>
<td>3VP36464-R**</td>
<td>3VF36464-R**</td>
<td>3VS36464-R**</td>
<td>3VT36464-R**</td>
</tr>
<tr>
<td>45000</td>
<td>480</td>
<td>77 (1956)</td>
<td>3VP45477-R**</td>
<td>3VF45477-R**</td>
<td>3VS45477-R**</td>
<td>3VT45477-R**</td>
</tr>
<tr>
<td>48000</td>
<td>480</td>
<td>82 (2083)</td>
<td>3VP48482-R**</td>
<td>3VF48482-R**</td>
<td>3VS48482-R**</td>
<td>3VT48482-R**</td>
</tr>
<tr>
<td>54000</td>
<td>480</td>
<td>91 (2311)</td>
<td>3VP54491-R**</td>
<td>3VF54491-R**</td>
<td>3VS54491-R**</td>
<td>3VT54491-R**</td>
</tr>
</tbody>
</table>

*Specify riser height required. Example: 3VS18236-R59-P2*
### ORDERING EXAMPLE:

3VS18436-R59-P2  
Triple tube, deep tank, 316 stainless, 18kW, 480 volt, 3 phase, 36" heater tube length, 59" riser, P2 protector.

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### TRIPLE TUBE DEEP TANK METAL OVER THE SIDE HEATER ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Series</th>
<th>Wattage</th>
<th>Voltage</th>
<th>Heater Tube Length (in.)</th>
<th>Riser Length</th>
<th>Options</th>
<th>Type of Protector</th>
<th>Wire and Conduit Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>18 = 18000</td>
<td>2 = 240</td>
<td>36 = 18kw</td>
<td>Specify custom lengths, (so that overall length does not exceed tank depth). Ex:R48=48&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24 = 24000</td>
<td>3 = 380</td>
<td>44 = 24kw</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>27 = 27000</td>
<td>4 = 480</td>
<td>50 = 27kw</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30 = 30000</td>
<td>5 = 415</td>
<td>55 = 30kw</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>36 = 36000</td>
<td>6 = 600</td>
<td>64 = 36kw</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>45 = 45000</td>
<td>7 = 400</td>
<td>77 = 45kw</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>48 = 48000</td>
<td>8 = 208</td>
<td>82 = 48kw</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>54 = 54000</td>
<td>9 = 220</td>
<td>91 = 54kw</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0 = 200</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3VP = Plain Steel  
3VF = 304 Stainless Steel  
3VS = 316 Stainless Steel  
3VT = Titanium  

No designator = 3 phase power (standard)  
-1 = single phase power  

36" conduit length standard (no designator)  
Specify variations from standard  
Ex: -X84 = 84"  

- Resettable Fuse  
(Additional control components required)  
-P2  
For solutions up to 180°F  
-P6  
For 180° - 230°F solutions