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

**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 46 watts per square inch (7.1 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.

### 9HS SERIES, NINE ELEMENT STAINLESS STEEL HEATERS

<table>
<thead>
<tr>
<th>WATTS</th>
<th>VOLTS</th>
<th>HOT ZONE</th>
<th>OVERALL LENGTH</th>
<th>MODEL NUMBER</th>
<th>WGT.</th>
<th>WGT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>9000</td>
<td>240</td>
<td>16</td>
<td>17</td>
<td>9HS9217-**</td>
<td>16</td>
<td>(7.3)</td>
</tr>
<tr>
<td>13500</td>
<td>240</td>
<td>16</td>
<td>23</td>
<td>9HS13.5223-**</td>
<td>19</td>
<td>(8.6)</td>
</tr>
<tr>
<td>22500</td>
<td>240</td>
<td>20</td>
<td>29</td>
<td>9HS22.5229-**</td>
<td>23</td>
<td>(10.4)</td>
</tr>
<tr>
<td>31500</td>
<td>240</td>
<td>25</td>
<td>34</td>
<td>9HS31.5234-M-**</td>
<td>25</td>
<td>(11.3)</td>
</tr>
</tbody>
</table>

Temperature: Up to 180°C

Watts: 9000 to 31,500

200 to 600 volts, 600V on 4,500V or lower only

UL listed (except steel). CE compliant (except 600 volts)
9HS Metal Heater

SPECIFICATIONS

Wattages  
9000 Watts to 31,500 Watts

Voltages  
200 volts to 600 volts,  
(600V on 4,500W or lower only)

Temperature Range  
Up to 180°C (82°F)

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 180°F (82°C).  
See chart below for options

DIMENSIONS

MODEL NUMBER BREAKDOWN

<table>
<thead>
<tr>
<th>9HS</th>
<th>13.5</th>
<th>3</th>
<th>23</th>
<th>-</th>
<th>P4</th>
<th>-</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series</td>
<td>Wattage</td>
<td>Voltage</td>
<td>Overall Length (in.)</td>
<td>Phase</td>
<td>Type of Protector</td>
<td>Wire &amp; Conduit Length</td>
</tr>
</tbody>
</table>
| 9HS = 9 element, 316 stainless steel | 9 = 9000 | 2 = 240 | 17 = 18kW | no designator = three phase (std) | Replaceable Fuse | 3/8” length standard (no designator)  
(specify variations from standard Ex: -X84 = 84”) |
| 13.5 = 13500 | 3 = 380 | 23 = 13.5kW | -1 = single phase | P1 (std) = solutions up to 180°F  
P4 = solutions up to 230°F  
P5 = solutions up to 300°F |
| 22.5 = 22500 | 4 = 480 | 29 = 22.5kW | P2 = solutions up to 180°F  
P6 = solutions up to 230°F  
P7 = solutions up to 300°F |
| 31.5 = 31500 | 5 = 415 | 34 = 31.5kW | |
| 6 = 600 | |
| 7 = 400 | |
| 8 = 200 | |
| 9 = 220 | |
| 0 = 200 | |