Excellent chemical resistance to aggressive acids!

Inert to most solutions
Low Watt density design saves space & ensures long life
Corrosion-resistant head
Built-in thermal protector & grounded element

Up to 100°C (212°F)
500 to 9,000 Watts
120 to 600 Volts
(600V on 4,500W & lower)
PTFE sleeved 304 stainless steel
cULus
CE (except 600 Volts)

HXL SERIES, SPIRAL L-SHAPED FLUOROPOLYMER (PTFE) HEATERS

<table>
<thead>
<tr>
<th>WATTS</th>
<th>VOLTS</th>
<th>HOT ZONE in/(mm)</th>
<th>OVERALL LENGTH in/(mm)</th>
<th>MAX. COLD ZONE in/(mm)</th>
<th>MODEL NUMBER</th>
<th>SHIP WGT. lbs/(kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td>120</td>
<td>6</td>
<td>32</td>
<td>41</td>
<td>HXL5106-R**</td>
<td>6</td>
</tr>
<tr>
<td>1200</td>
<td>240</td>
<td>(152)</td>
<td>(305)</td>
<td>(1041)</td>
<td>HXL5206-R**</td>
<td>(2.7)</td>
</tr>
<tr>
<td>2000</td>
<td>240</td>
<td>8</td>
<td>12</td>
<td>41</td>
<td>HXL1108-R**</td>
<td>7</td>
</tr>
<tr>
<td>2400</td>
<td>(203)</td>
<td>(305)</td>
<td>(1041)</td>
<td></td>
<td>HXL1208-R**</td>
<td>(3.2)</td>
</tr>
<tr>
<td>3000</td>
<td>240</td>
<td>12</td>
<td>18</td>
<td>40</td>
<td>HXL2112-R**</td>
<td>8</td>
</tr>
<tr>
<td>4000</td>
<td>(305)</td>
<td>(457)</td>
<td>(1016)</td>
<td></td>
<td>HXL2212-R**</td>
<td>(3.6)</td>
</tr>
<tr>
<td>480</td>
<td>HXL2412-R**</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3000</td>
<td>240</td>
<td>17</td>
<td>18</td>
<td>40</td>
<td>HXL3217-R**</td>
<td>13</td>
</tr>
<tr>
<td>4000</td>
<td>480</td>
<td>(432)</td>
<td>(457)</td>
<td>(1016)</td>
<td>HXL3417-R**</td>
<td>(5.9)</td>
</tr>
<tr>
<td>5000</td>
<td>480</td>
<td>24</td>
<td>18</td>
<td>36</td>
<td>HXL4220-R**</td>
<td>15</td>
</tr>
<tr>
<td>5000</td>
<td>(610)</td>
<td>(457)</td>
<td>(914)</td>
<td></td>
<td>HXL4420-R**</td>
<td>(6.8)</td>
</tr>
<tr>
<td>8000</td>
<td>240</td>
<td>24</td>
<td>18</td>
<td>36</td>
<td>HXL5224-R**</td>
<td>18</td>
</tr>
<tr>
<td>8000</td>
<td>480</td>
<td>(610)</td>
<td>(457)</td>
<td>(914)</td>
<td>HXL5424-R**</td>
<td>(8.2)</td>
</tr>
<tr>
<td>6000</td>
<td>240</td>
<td>29</td>
<td>18</td>
<td>30</td>
<td>HXL6229-R**</td>
<td>21</td>
</tr>
<tr>
<td>6000</td>
<td>(737)</td>
<td>(457)</td>
<td>(762)</td>
<td></td>
<td>HXL6429-R**</td>
<td>(9.5)</td>
</tr>
<tr>
<td>9000</td>
<td>240</td>
<td>37</td>
<td>18</td>
<td>32</td>
<td>2HXL8237-R**</td>
<td>26</td>
</tr>
<tr>
<td>9000</td>
<td>480</td>
<td>(940)</td>
<td>(457)</td>
<td>(813)</td>
<td>2HXL8437-R**</td>
<td>(11.8)</td>
</tr>
<tr>
<td>9000</td>
<td>480</td>
<td>44</td>
<td>18</td>
<td>35</td>
<td>2HXL9244-R**</td>
<td>29</td>
</tr>
<tr>
<td>9000</td>
<td>(1118)</td>
<td>(457)</td>
<td>(889)</td>
<td></td>
<td>2HXL9444-R**</td>
<td>(13.2)</td>
</tr>
</tbody>
</table>

Single phase only. Guards recommended. This configuration is not recommended for electroless chemistry, phosphoric acid, or applications prone to sludge buildup.
**Features & Values**

- Inert to most aqueous acid, alkaline, anodizing, & pickling solutions up to 100°C (212°F)
- Rugged, heavy wall PTFE covered stainless steel element reduces permeation. Guaranteed 100% pinhole free
- Space saving & long service life with low Watt density design of 10 W/in² (1.5 W/cm²)
- Vapor-resistant, flame retardant polypropylene terminal enclosure with 3 ft (.9m) flexible PVC liquid tight conduit
- Lower Watt densities available for highly viscous solutions & technical acids

**Specifications**

<table>
<thead>
<tr>
<th>Wattages</th>
<th>500 to 9,000 Watts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltages</td>
<td>120 to 600 Volts</td>
</tr>
<tr>
<td>(600V on 4,500W or lower only)</td>
<td></td>
</tr>
</tbody>
</table>

**Temperature Range**

Up to 100°C (212°F)

**Safety Features**

- Grounded internal metal element
- Built-in thermal protector. Replaceable P1 protector standard for up to 82°C (180°F). Other options available
- Non-floating construction

**Certifications**

- cULus listed
- CE compliant (except 600V)

**Dimensions**

- Vertical Length (in.)
- Type of Protector
- Wire & Conduit Length
- 36" length standard (no designator)

**Model Number Breakdown**

<table>
<thead>
<tr>
<th>HXL</th>
<th>I</th>
<th>I</th>
<th>08</th>
<th>-</th>
<th>R12</th>
<th>-</th>
<th>P1</th>
<th>-</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>1</td>
<td>06</td>
<td>-</td>
<td>R12</td>
<td>-</td>
<td>P1</td>
<td>-</td>
</tr>
</tbody>
</table>

- **Series**
  - HXL = 1 element
  - 2HXL = 2 element

- **Wattage**
  - 5 = 500
  - 6 = 600
  - 7 = 600
  - 8 = 800
  - 9 = 900
  - 10 = 1000

- **Voltage**
  - 1 = 120
  - 2 = 240
  - 3 = 380
  - 4 = 480
  - 5 = 500
  - 6 = 600
  - 7 = 400
  - 8 = 800
  - 9 = 900
  - 12 = 1200

- **Diameter (in.)**
  - 1/2" FNPT
  - Ø0.28 in
  - Ø0.38 in
  - 1.5 in
  - 3.00 in

- **Vertical Length (in.)**
  - 1.5 in
  - 4.9 in
  - 3.38 in
  - 1.75 in
  - 2.63 in

- **Type of Protector**
  - Replaceable Fuse (Type-J TC)
  - Resettable Fuse (Type-J TC)
  - P1 (std) = solutions up to 190°F
  - P2 = solutions up to 190°F
  - P3 = solutions up to 190°F
  - P8 = solutions up to 210°F
  - P18 = solutions up to 250°F

- **Wire & Conduit Length**
  - Specify custom lengths