AHP-5400CPV Versatile Cold/Hot Plate

Air Cooled
Bench Top
240 VAC Input
1100 Watts

FEATURES

• Cools and heats (-20 °C to 90 °C)
• Precision machined anodized aluminum cold plate surface (~ 5175 cm² surface area, flat within +/- .005 cm) (~ 802 in² [5.5 ft²] surface, flat within +/- .002 in)
• Stainless steel threaded inserts available (standard or custom pattern)
• Easy to clean stainless steel apron
• Embedded RTD sensor array for average plate temperature or use center RTD only
• Low-profile design with ergonomic sloped front
• PWM controlled fans for quieter operation
• Operating ambient temperature range of (0 °C to 50 °C)
• Bench top unit, 35.7” X 30.3” footprint
• Virtually maintenance-free operation
• Painted Enameled stainless steel exterior housing
• Weight 150 LBS.

CONTROL FEATURES

• Integral "tunable" PWM temperature control
• PWM, Bi-directional temperature control
• Manually set or autotune to set point for best PID values
• 4 Programmable temperature zones with 4 independent PID settings
• Multi-segment ramp/soak programs with loops
• Internal single RTD sensor and four RTD array, built into the cold plate
• Remote Sensibility™ switchable to exterior accessory RTD sensor
• USB communication with easy to use software
• Labview VI examples available

OPTIONS/ACCESSORIES

• Standard and custom tap patterns
• Clear acrylic hinged cover
• Accessory plate for customization and machining

SPECIFICATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>PLATE CONFIGURATION</th>
<th>PERFORMANCE RATING WATTS</th>
<th>VOLTAGE 50/60 Hz</th>
<th>CURRENT AMPS</th>
<th>OPERATING AMBIENT °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-5400CPV</td>
<td>9-P5KB-1-0A0</td>
<td>Heat/Cool</td>
<td>Smooth Surface</td>
<td>1100</td>
<td>240</td>
<td>12</td>
<td>0-50</td>
</tr>
<tr>
<td>AHP-5400CPV</td>
<td>9-P5KB-1-TAP</td>
<td>Heat/Cool</td>
<td>10-32 Tap Pattern</td>
<td>1100</td>
<td>240</td>
<td>12</td>
<td>0-50</td>
</tr>
<tr>
<td>AHP-5400CPV</td>
<td>9-P5KB-1-MET</td>
<td>Heat/Cool</td>
<td>M5 Tap Pattern</td>
<td>1100</td>
<td>240</td>
<td>12</td>
<td>0-50</td>
</tr>
</tbody>
</table>

For custom threaded inserts and hole patterns contact TECA
**PERFORMANCE CURVE**

Cooling Capacity (BTU/HR)

<table>
<thead>
<tr>
<th>Cooling Capacity (Watts)</th>
<th>0</th>
<th>341</th>
<th>682</th>
<th>1023</th>
<th>1364</th>
<th>1705</th>
<th>2046</th>
<th>2387</th>
<th>2728</th>
<th>3069</th>
<th>3410</th>
<th>3751</th>
<th>4092</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature Differential (°C)</td>
<td>0</td>
<td>5</td>
<td>10</td>
<td>15</td>
<td>20</td>
<td>25</td>
<td>30</td>
<td>35</td>
<td>40</td>
<td>45</td>
<td>50</td>
<td>55</td>
<td>60</td>
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</tbody>
</table>

Equation of line: \( y = AT(°C) \), \( x = \text{Capacity (Watts)} \)

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>25°C</th>
<th>50°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cold Plate</td>
<td>( y = 0.035x - 37.5 )</td>
<td>( y = 0.035x - 39.1 )</td>
</tr>
</tbody>
</table>

**DIMENSIONS**

[Diagram showing dimensions in inches and millimeters]

**ENVIRONMENTS**

- Bench top
- Laboratory
- Industrial

**COOLING CAPACITY**

1100 Watts @ 0 °C \( \Delta T \)

**AHP-5400CPV**

Versatile Cold Plate - Air Cooled

[Image of AHP-5400CPV]

Ambient Air Path

[Diagram showing ambient air path]

[Equation of line: \( y = AT(°C) \), \( x = \text{Capacity (Watts)} \)]