AHP-590CP Cold/Hot Plate

Air Cooled
General Purpose 24 VDC
High Efficiency
145 Watts

**FEATURES**
- Flat aluminum plate (8” x 4.70”) [203 x 119]
- Standard 6-32X.25 UNC threads
- Compact (only 10” x 5.76” x 4.45”) [254 x 146 x 113]
- Mounts and operates in any orientation: horizontal, vertical, etc.
- Low vibration and noise
- No moving parts except fan
- Environmentally safe
- No compressor, fluorocarbons or filters
- Cools and heats via reverse polarity
- Virtually maintenance-free operation
- Pivot clean
- Weight 7 LBS. (3.2 KG)

**INCLUDES**
- Mounting gasket
- Mounting hardware
- Power input leads

**OPTIONS**
- Custom cold plate threads and/or inserts
- Flat plate without holes or threads
- Stainless steel exterior fan shroud and housing
- Custom fans: Quiet, Speed Control, Waterproof
- Use with TC-3400, TC-3500 and TC-4600 controls

**PERFORMANCE RATINGS**
- Cooling: 145 WATTS
- Cooling COP: 1
- Heating: > 145 Watts

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>PERFORMANCE RATING WATTS</th>
<th>VOLTAGE VDC</th>
<th>CURRENT AMPS</th>
<th>TEMP CONTROL</th>
<th>OPERATING AMBIENT °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-590CPHC</td>
<td>1-G095-1-001</td>
<td>Heat/Cool</td>
<td>145 WATTS</td>
<td>24</td>
<td>6</td>
<td>None</td>
<td>-10/+60</td>
</tr>
</tbody>
</table>

Heat function via reverse polarity (requires controller with H-Bridge)
**PERFORMANCE CURVE**

Equation of Line: \( y = \Delta T°C \), \( x \) = Capacity (Watts)

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>Equation</th>
<th>Cold Plate</th>
</tr>
</thead>
<tbody>
<tr>
<td>35°C</td>
<td>( y = 0.23x - 33.4 )</td>
<td>( y = 0.23x - 34.7 )</td>
</tr>
<tr>
<td>50°C</td>
<td></td>
<td></td>
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**DIMENSIONS**

- **Hot Side Fan**
  - Dimension: 10.00 [254]
  - Terminal Strip: 5.76 [146]

- **Cold Plate Surface**
  - Accessory Holes: 4.70 [119]
  - 4x6-32 Cold Plate

**ENVIRONMENTS**

- Bench Top, Factory, Industrial, OEM

**COOLING CAPACITY**

- 145 Watts @ 0 °C \( \Delta T \)

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