AHP-1800 Air Conditioner

24 VDC Input
High Efficiency
1100 BTU/HR

FEATURES
- High capacity thermoelectric design
- Lower profile intrusion into enclosure
- Closed loop design
- Condensate control and evaporation system
- Compact
- Increased efficiency at higher ambients by as much as 12%
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Operating ambient temperature range -40/+70 °C
- Operating enclosure temperature range -10/+60 °C
- Easy to use Pivot Clean feature
- Weight 55 LBS.
- Agency approvals: UL 1995, CSA 22.2, CE

POWER INPUTS
- Voltage 24 VDC
- Current, Active 18 AMPS
- Current, ECO-Mode 1.9 AMPS

PERFORMANCE RATINGS
- Cooling (Traditional) 1100 BTU/HR
- Cooling (Din 3168) 322 WATTS
- Cooling COP (at L35 L35) 0.74
- Heating (Traditional) > 1473 BTU/HR
- Heating (Din 3168) > 432 WATTS
- Heating COP > 1.0

INCLUDES
- Temperature controller
- Mounting gasket
- Mounting hardware
- Power input leads

CONFIGURATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>TEMPERATURE CONTROL</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-1800</td>
<td>0-0195-0-000</td>
<td>Cool only</td>
<td>None</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-1800</td>
<td>0-0185-0-000</td>
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<td>TC-6F</td>
<td>NEMA-12, IP 52</td>
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<tr>
<td>AHP-1800</td>
<td>0-01F5-0-000</td>
<td>Cool only</td>
<td>TC-1F</td>
<td>NEMA-12, IP 52</td>
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<tr>
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<td>EXT*</td>
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<tr>
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<td>TC-3F</td>
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<td>NEMA-4/4X, IP 56</td>
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<td>TC-6F</td>
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<td>Cool only</td>
<td>TC-1F</td>
<td>NEMA-4/4X, IP 56</td>
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<td>AHP-1800X</td>
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<td>NEMA-12, IP 52</td>
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</tr>
</tbody>
</table>

* Unit is set for 5-32 VC external signal, relay(s) included

CONTROL TEMPERATURES

<table>
<thead>
<tr>
<th>Temp. Control</th>
<th>Active Heat °C</th>
<th>ECO-Mode °C</th>
<th>Active Cool °C</th>
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<tbody>
<tr>
<td>TC-1F</td>
<td>-</td>
<td>35</td>
<td></td>
</tr>
<tr>
<td>TC-6F</td>
<td>-</td>
<td>-</td>
<td>25 or 35</td>
</tr>
<tr>
<td>TC-3F</td>
<td>10</td>
<td>-</td>
<td>35</td>
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<tr>
<td>TC-7F</td>
<td>10</td>
<td>25</td>
<td>35</td>
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</tbody>
</table>

250 VDC configuration for crane applications available

200 VDC configuration for crane applications available

Consult factory for full shock and vibration models
**AHP-1800**

**Mounting Style**
- Through Mounted

**Environments Served**
- NEMA-12  IP 52
- NEMA-4,4X  IP 56

**Rating (Traditional)**
- 1100 BTU/hr @ 0 °F ΔT

**Rating (DIN 3168)**
- 322 Watts L35 L35
- 210 Watts L35 L50

### Performance Curve

Equation of line: \( y = AT^1^\circ (\text{°C}) \) \( x = \text{Capacity (Watts)} \)

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>20°C</th>
<th>40°C</th>
<th>60°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>( y = 0.129x - 38.1 )</td>
<td>( y = 0.129x - 40.1 )</td>
<td>( y = 0.129x - 42.0 )</td>
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<tr>
<td>Cold Sink</td>
<td>( y = 0.09x - 38.1 )</td>
<td>( y = 0.09x - 40.1 )</td>
<td>( y = 0.09x - 42.0 )</td>
</tr>
</tbody>
</table>

### Dimensions

- **Input Power Cable**
  - 12.35 [314] *

- **External Hot Side Fans**
  - 18.00 [457]

- **Mounting Surface**
  - 8.63 [219] *

- **Temperature Adjustment (TC-6F models only)**
  - 4.34 [110] 4.34 [110] 10.80 [274] *

- **Mounting Cutout Dimensions**
  - 10.90 [277] 1.34 [34] 1.34 [34]

* Dimension does not include hardware and sealant. Mounting hardware and gasket included but not shown. Dimensions: Inches [Millimeters]