**AHP-2250 Air Conditioner/Heat Exchanger**

*Air Cooled Through Mounted 48 VDC Input High Efficiency Nema-12, 4, 4X 1420 BTU/HR*

### FEATURES
- High capacity thermoelectric design
- Power saving air to air heat exchanger mode (ECO-Mode)
- Heavy duty full perimeter mounting
- Lower profile intrusion into enclosure
- Central input cord for easy mounting
- Closed loop design
- Condensate control and evaporation system
- Compact
- Increased efficiency at higher ambients by as much as 10%
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Weight 60 LBS.

### CONTROL TEMPERATURES
- **Active Cooling** 35 °C
- **Heat Exchanger (ECO-Mode)** 25 °C
- **Active Heating** 10 °C
- **Typical Hysteresis** 5 °C
- **Operating Ambient** -40/+65 °C
- **Operating Enclosure** -10/+60 °C

### POWER INPUTS
- **Voltage** 48 VDC
- **Current, Active** 7.5 AMPS
- **Current, ECO-Mode** 0.9 AMPS

### PERFORMANCE RATINGS
- **Cooling (Traditional)** 1420 BTU/HR
- **Cooling (Din 3168)** 417 WATTS
- **Cooling COP (at L35 L35)** 1.16
- **Heating (Traditional)** > 1420 BTU/HR
- **Heating (Din 3168)** > 417 WATTS
- **Heating COP** 1.16
- **Heat Exchanger (ECO-Mode)** 12.5 W/°C

### 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-2250</td>
<td>0-H4J6-0-000</td>
<td>Cool only, industrial fans</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-2250</td>
<td>0-H4J6-0-000</td>
<td>Cool only, industrial fans</td>
<td>EXT*</td>
<td>NEMA-12, IP 52</td>
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<tr>
<td>AHP-2250HC</td>
<td>0-H4J6-1-000</td>
<td>Heat/Cool, industrial fans</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
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<td>0-H4J6-1-000</td>
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<td>EXT*</td>
<td>NEMA-12, IP 52</td>
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<tr>
<td>AHP-2250XE</td>
<td>0-H4J6-4-000</td>
<td>Cool only, sealed hot side fans</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-2250XE</td>
<td>0-H4J6-4-000</td>
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<td>EXT*</td>
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<tr>
<td>AHP-2250X</td>
<td>0-H4J6-2-000</td>
<td>Cool only, Mil. grade hot side fans</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
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<tr>
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<td>Cool only, Mil. grade hot side fans</td>
<td>EXT*</td>
<td>NEMA-4X, IP 56</td>
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<tr>
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<td>Heat/Cool, Mil. grade hot side fans</td>
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</tr>
<tr>
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<td>0-H4J6-3-000</td>
<td>Heat/Cool, Mil. grade hot side fans</td>
<td>EXT*</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

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

### INCLUDES
- Power input leads
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Circuit breaker

250 VDC configuration for crane applications available

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[TECA 1-888-TECA-USA (832-2872)](tel:1888TECAUSA) [www.thermoelectric.com](http://www.thermoelectric.com)
### Performance Curve

Equation of line: $y = AT(°C)$  $x = $ Capacity (Watts)

<table>
<thead>
<tr>
<th>Ambient Temp.</th>
<th>35 °C</th>
<th>50 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>$y = .066x - 27.5$</td>
<td>$y = .066x - 28.3$</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>$y = .05x - 27.5$</td>
<td>$y = .05x - 28.3$</td>
</tr>
</tbody>
</table>

### Dimensions

- External Hot Side Fans
- Mounting Surface
- Internal Cold Side Fans
- (14) 10-32 Studs
- Circuit Breaker
- Input Cord

Dimensions do not include hardware
Mounting hardware and gasket included but not shown
Dimensions: Inches [Millimeters]

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### Mounting Cutout Dimensions

- Top [155]
- Bottom [155]
- Right [155]
- Left [155]

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### Mounting Style

- Through Mounted

### Environments Served

- NEMA-12   IP 52
- NEMA-4,4X  IP 56

### Rating (Traditional)

- 1420 BTU/hr @ 0 °F ΔT

### Rating (DIN 3168)

- 417 Watts L35 L35
- 270 Watts L35 L50

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### AHP-2250

Air Conditioner - Air Cooled