AHP-2259

**Air Conditioner/Heat Exchanger**

- Air Cooled
- Through Mounted
- Nema-12, 4

**100-240 VAC Input**

**High Capacity**

**1820 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 ambient 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.

### 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-2259</td>
<td>0-H5JB-0-000</td>
<td>Cool only, industrial fans</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
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<td>AHP-2259</td>
<td>0-H55B-0-000</td>
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<td>EXT*</td>
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<td>AHP-2259HC</td>
<td>0-H51B-1-000</td>
<td>Heat/Cool, industrial fans</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
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<td>Heat/Cool, industrial fans</td>
<td>EXT*</td>
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<tr>
<td>AHP-2259XE</td>
<td>0-H51B-4-000</td>
<td>Cool only, sealed hot side fans</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
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<td>AHP-2259XE</td>
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<tr>
<td>AHP-2259XEHC†</td>
<td>0-H5LB-5-000</td>
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<td>TC-5300D</td>
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<td>Heat/Cool, industrial fans</td>
<td>TC-5300D</td>
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</tr>
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</table>

† Precise temperature control model

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

### 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

- **Input Voltage**: 100 - 240 VAC
- **Current, Active**: 8.4 - 3.5 AMPS
- **Alternate Input Voltage**: 127 - 374 VDC
- **Current, ECO-Mode**: 1 AMP
- **Frequency**: 47 - 63 / 440 Hz
- **Power Consumption**: 840 Watts

### PERFORMANCE RATINGS

- **Cooling (Traditional)**: 1820 BTU/HR
- **Cooling (Din 3168)**: 534 WATTS
- **Cooling COP (at L35 L35)**: 0.65
- **Heating (Traditional)**: > 2780 BTU/HR
- **Heating (Din 3168)**: > 816 WATTS
- **Heating COP**: > 1.0
- **Heat Exchanger (ECO-Mode)**: 12.5 W/°C

### INCLUDES

- Power supply
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input cord

### 200 - 277 VAC (254 - 420 VDC) Versions available
**AHP-2259**

**MOUNTING STYLE**
Through Mounted

**ENVIRONMENTS SERVED**
- NEMA-12  IP 52
- NEMA-4  IP 56

**RATING (TRADITIONAL)**
- 1820 BTU/hr @ 0 °F ΔT

**RATING (DIN 3168)**
- 534 Watts L35 L35
- 280 Watts L35 L50

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**PERFORMANCE CURVE**

Equation of line: \( y = \Delta T(°C) \times x = \text{Capacity (Watts)} \)

<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 = 0.06x - 32 )</td>
<td>( y = 0.06x - 33.5 )</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>( y = 0.044x - 32 )</td>
<td>( y = 0.044x - 33.5 )</td>
</tr>
</tbody>
</table>

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**DIMENSIONS**

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

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**Air Conditioner - Air Cooled**