### AHP-4259 Air Conditioner/Heat Exchanger

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

100-240 VAC Input
High Capacity
3410 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
- 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 110 LBS.

### CONTROL TEMPERATURES

<table>
<thead>
<tr>
<th>Control Type</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Cooling</td>
<td>35 °C</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-Mode)</td>
<td>25 °C</td>
</tr>
<tr>
<td>Active Heating</td>
<td>10 °C</td>
</tr>
<tr>
<td>Typical Hysteresis</td>
<td>±5 °C</td>
</tr>
<tr>
<td>Operating Ambient</td>
<td>-40° to +65 °C</td>
</tr>
<tr>
<td>Operating Enclosure</td>
<td>-10° to +60 °C</td>
</tr>
</tbody>
</table>

### POWER INPUTS

- **Input Voltage**: 100 - 240 VAC
- **Current, Active**: 15 - 6.5 AMPS
- **Alternate Input Voltage**: 127 - 374 VDC
- **Current, ECO-Mode**: 1 AMP
- **Frequency**: 47 - 63 / 440 Hz
- **Power Consumption**: 1500 Watts

### PERFORMANCE RATINGS

- **Cooling (Traditional)**: 3410 BTU/HR
- **Cooling (Din 3168)**: 1000 Watts
- **Cooling COP (at L35 L35)**: 0.67
- **Heating (Traditional)**: > 5100 BTU/HR
- **Heating (Din 3168)**: > 1500 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
- Circuit breaker

### CONFIGURATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Notes</th>
<th>Temperature</th>
<th>Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-4259</td>
<td>0-J5JB-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-4259</td>
<td>0-J5SB-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>EXT*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-4259HC</td>
<td>0-J51B-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-4259HC</td>
<td>0-J55B-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>EXT*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-4259XE</td>
<td>0-J5JB-4-000</td>
<td>Cool only, sealed hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-4259XE</td>
<td>0-J55B-4-000</td>
<td>Cool only, sealed hot side fans &amp; power supply</td>
<td>EXT*</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-4259XEH</td>
<td>0-J51B-5-000</td>
<td>Heat/Cool, sealed hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-4259XEH</td>
<td>0-J55B-5-000</td>
<td>Heat/Cool, sealed hot side fans &amp; power supply</td>
<td>EXT*</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-4259XEHCy</td>
<td>0-J5LB-5-000</td>
<td>Heat/Cool, sealed hot side fans &amp; power supply</td>
<td>TC-5300D</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-4259XEH†</td>
<td>0-J5LB-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>TC-5300D</td>
<td>NEMA-12, IP 52</td>
</tr>
</tbody>
</table>

† Precise temperature control model

* Unit is set for 5-32 VDC external signal, relay(s) included
**Equation of line:** $y = -5.1x + 30.1$  

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>$35^\circ C$</th>
<th>$50^\circ C$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>$y = 0.03x - 30.1$</td>
<td>$y = 0.030x - 31.8$</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>$y = 0.023x - 30.1$</td>
<td>$y = 0.023x - 31.8$</td>
</tr>
</tbody>
</table>

**DIMENSIONS**

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

**Air Flow Pattern**