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

† Precise temperature control model

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

### 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

### 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

### INCLUDES

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

### ECO Mode vs Active Mode

![ECO Mode vs Active Mode Graph](image)

**Power (Used Watt) vs Temperature (Active)**

**Power (Used Watt) vs Temperature (ECO)**

**200 - 277 VAC (254 - 420 VDC) Versions available**
**PERFORMANCE CURVE**

- **Equation of line:** $y = \Delta T (°C)$  $x =$ Capacity (Watts)
- **Ambient Temp**
  - 35°C $y = 0.06x - 32$
  - 50°C $y = 0.06x - 33.5$
- **Enclosure Air**
  - $y = 0.044x - 32$
  - $y = 0.044x - 33.5$

**DIMENSIONS**

- **Hot Side (Ambient)**
  - 13.02 [331]
  - 20.12 [512]
- **Cold Side (Enclosure)**
  - 4.64 [118]
  - 8.66 [220]
- **External Hot side Fans**
  - Dimensions do not include hardware
  - Mounting hardware and gasket included but not shown
  - Dimensions: Inches [Millimeters]

**Environments Served**

- NEMA-12 IP 52
- NEMA-4 IP 56

**Rating (Traditional)**

- 1820 BTU/hr @ 0 °F $\Delta T$

**Rating (DIN 3168)**

- 534 Watts L35 L35
- 280 Watts L35 L50

**Mounting Style**

- Through Mounted

**Air Conditioning - Air Cooled**

- AEP-2259

**Air Flow Pattern**