AHP-2259 Air Conditioner/Heat Exchanger

 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.

 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

 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>
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<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>
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<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>
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<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-4/4X, IP 56</td>
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<tr>
<td>AHP-2259XE</td>
<td>0-H55B-4-000</td>
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<tr>
<td>AHP-2259XEH†</td>
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<td>Heat/Cool, sealed hot side 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

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

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

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**PERFORMANCE CURVE**

Equation of line: $y = a(T - b)$  $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>$y = 0.06x - 32$</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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**MOUNTING STYLE**
Through Mounted

**ENVIRONMENTS SERVED**

| NEMA-12 | IP 52 |
| NEMA-4/4X | IP 56 |

**RATING (TRADITIONAL)**

1820 BTU/hr @ 0 °F ΔT

**RATING (DIN 3168)**

534 Watts L35 L55
280 Watts L35 L50

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**AHP-2259**
Air Conditioner - Air Cooled

Air Flow Pattern