IHP-2259 Air Conditioner/Heat Exchanger

- Air Cooled
- Internal Mounted
- Nema-12, 4/4X
- 100 - 240 VAC Universal Input
- High Efficiency
- 1040 BTU/HR

FEATURES
- High efficiency thermoelectric design
- Power saving air to air heat exchanger mode (ECO-Mode)
- Heavy duty full perimeter mounting
- Easy installation from exterior of the enclosure
- Closed loop design
- Condensate control and evaporation system
- Increased efficiency at higher ambients by as much as 10%
- Temperature driven fan speed for quieter operations
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts flush with no protrusion outside of the enclosure
- Integral or remote temperature controller
- Weight 66 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 4.5 - 1.8 AMPS
Alternate Input Voltage 127 - 374 VDC
Current, ECO-Mode (120 VAC) 1 AMP
Frequency 47 - 63 / 440 Hz
Nominal Power Consumption 500 Watts

PERFORMANCE RATINGS
Cooling (Traditional) 1040 BTU/HR
Cooling (Din 3168) 305 WATTS
Cooling COP (at L35 L35) 0.68
Heating (Traditional) > 1530 BTU/HR
Heating (Din 3168) > 450 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>IHP-2259</td>
<td>B-H4JB-0-100</td>
<td>Cool only, industrial fans</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
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<tr>
<td>IHP-2259</td>
<td>B-H45B-0-100</td>
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<td>NEMA-12, IP 52</td>
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<td>IHP-2259HC</td>
<td>B-H4IB-1-100</td>
<td>Heat/Cool, industrial fans</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
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<tr>
<td>IHP-2259XE</td>
<td>B-H4JB-4-100</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>IHP-2259XEHC†</td>
<td>B-H4LB-5-100</td>
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<td>TC-5300D</td>
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<td>B-H4LB-1-100</td>
<td>Heat/Cool, industrial fans</td>
<td>TC-5300D</td>
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</tr>
</tbody>
</table>

† Precise temperature control model
* Unit is set for 5-32 VDC external signal, relay(s) included
**IHP-2259**

**MOUNTING STYLE**
- Internal Mounted

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

**RATING (TRADITIONAL)**
- 1040 BTU/hr @ 0 °F ΔT

**RATING (DIN 3168)**
- 305 Watts  L35 L35
- 84 Watts  L35 L50

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**PERFORMANCE CURVE**

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

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>35°C</th>
<th>50°C</th>
</tr>
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<tr>
<td>Enclosure Air</td>
<td>( y=0.062x-18.9 )</td>
<td>( y=0.062x-20.2 )</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>( y=0.046x-18.9 )</td>
<td>( y=0.046x-20.2 )</td>
</tr>
</tbody>
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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