IHP-2259

Air Conditioner/Heat Exchanger

Air Cooled
Internal Mounted
Nema-12, 4

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.

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>
<td>Cool only, industrial fans</td>
<td>EXT*</td>
<td>NEMA-12, IP 52</td>
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<tr>
<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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<td>IHP-2259HC</td>
<td>B-H45B-1-100</td>
<td>Heat/Cool, industrial fans</td>
<td>EXT*</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, IP 56</td>
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<td>IHP-2259XE</td>
<td>B-H45B-4-100</td>
<td>Cool only, sealed hot side fans</td>
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<tr>
<td>IHP-2259XEHC</td>
<td>B-H4IB-5-100</td>
<td>Heat/Cool, sealed hot side fans</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
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<td>IHP-2259XEHC</td>
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<td>Heat/Cool, sealed hot side fans</td>
<td>EXT*</td>
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<td>IHP-2259XEHC†</td>
<td>B-H4LB-5-100</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

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: 5.0 - 2.1 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): 0.6
- Heating (Traditional): > 1530 BTU/HR
- Heating (Din 3168): > 450 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

TECA 1-888-TECA-USA (832-2872) www.thermoelectric.com
**AIR CONDITIONER - AIR COOLED**

**IHP-2259**

**Mounting Style**
- Internal Mounted

**Environments Served**
- NEMA-12: IP 52
- NEMA-4: 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:**
\[ y = \Delta T(°C) = \frac{x}{\text{Capacity (Watts)}} \]

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

**Dimensions**

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

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