**FHP-2250 Air Conditioner/Heat Exchanger**

- Air Cooled
- Flush Mounted
- Nema-12, 4, 4X
- 48 VDC Input
- High Efficiency
- 1250 BTU/HR

### Features
- High capacity thermoelectric design
- Power saving air to air heat exchanger mode (ECO-Mode)
- Heavy duty full perimeter mounting
- No intrusion into enclosure
- Central input cord for easy mounting
- Closed loop design
- Condensate control and evaporation system
- Compact (20.5” L X 13” W X 8.5” D)
- 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 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
- Voltage: 48 VDC
- Current, Active: 8 AMPs
- Current, ECO-Mode: 0.9 AMP

### Performance Ratings
- Cooling (Traditional): 1250 BTU/HR
- Cooling (Din 3168): 367 WATTS
- Cooling COP (at L35 L35): 1.02
- Heating (Traditional): > 1220 BTU/HR
- Heating (Din 3168): > 367 WATTS
- Heating COP: > 1.02
- 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>FHP-2250</td>
<td>7-H4J6-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-2250</td>
<td>7-H4J6-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>EX*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-2250HC</td>
<td>7-H4I6-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
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<td>7-H4J6-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>EX*</td>
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</tr>
<tr>
<td>FHP-2250XE</td>
<td>7-H4J6-4-000</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>FHP-2250XE</td>
<td>7-H4J6-4-000</td>
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<tr>
<td>FHP-2250X</td>
<td>7-H4J6-2-000</td>
<td>Cool only, Mil. grade hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>FHP-2250X</td>
<td>7-H4J6-2-000</td>
<td>Cool only, Mil. grade hot side fans &amp; power supply</td>
<td>EX*</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>FHP-2250XHC</td>
<td>7-H4J6-3-000</td>
<td>Heat/Cool, Mil. grade hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>FHP-2250XHC</td>
<td>7-H4J6-3-000</td>
<td>Heat/Cool, Mil. grade hot side fans &amp; power supply</td>
<td>EX*</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

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

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**Includes**
- Power input leads
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Circuit breaker

**TECA**
1-888-TECA-USA (832-2872)  www.thermoelectric.com
Equation of line: \( y = \Delta T(\degree C) \quad x = \text{Capacity (Watts)} \)

<table>
<thead>
<tr>
<th>Environment</th>
<th>Ambient Temp</th>
<th>Enclosure Air</th>
<th>Cold Sink</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>35°C</td>
<td>y = 0.072x - 26.4</td>
<td>y = 0.056x - 26.4</td>
</tr>
<tr>
<td></td>
<td>50°C</td>
<td>y = 0.072x - 27.1</td>
<td>y = 0.056x - 27.1</td>
</tr>
</tbody>
</table>

**MOUNTING STYLE**
- Flush Mounted

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

**RATING (TRADITIONAL)**
- 1250 BTU/hr @ 0 °F \( \Delta T \)

**RATING (DIN 3168)**
- 367 Watts L35 L35
- 168 Watts L35 L50

**PERFORMANCE CURVE**

**DIMENSIONS**

**MOUNTING CUTOUT DIMENSIONS**

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