FHP-2250 Air Conditioner/Heat Exchanger

**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 card 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: 24 VDC
- Current, Active: 15 AMPS
- Current, ECO-Mode: 1.9 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</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHP-2250</td>
<td>7-H4I5-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
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<tr>
<td>FHP-2250</td>
<td>7-H455-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>EXT*</td>
<td>NEMA-12, IP 52</td>
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<tr>
<td>FHP-2250HC</td>
<td>7-H4I5-1-000</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>EXT*</td>
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<tr>
<td>FHP-2250XE</td>
<td>7-H4I5-4-000</td>
<td>Cool only, sealed hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
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<td>NEMA-4, IP 56</td>
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<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
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<td>Cool only, Mil. grade hot side fans &amp; power supply</td>
<td>EXT*</td>
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<tr>
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<td>NEMA-4X, IP 56</td>
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<tr>
<td>FHP-2250XH</td>
<td>7-H455-3-000</td>
<td>Heat/Cool, Mil. grade hot side fans &amp; power supply</td>
<td>EXT*</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

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

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

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

**DIMENSIONS**

**FHP-2250**

**Mounting Style**
Flush Mounted

**Environments Served**
- NEMA-12 IP 52
- NEMA-4,4X IP 56

**RATING (Traditional)**
- 1250 BTU/hr @ 0 °F $\Delta T$
- 1776 BTU/hr @ +20 °F $\Delta T$

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

**Air Conditioner - Air Cooled**

**Mounting Cutout Dimensions**

Dimensions do not include hardware
Mounting hardware and gasket included but not shown
Dimensions: inches [millimeters]