**FHP-2250**

Air Cooled  
Flush Mounted  
Nema-12, 4, 4X

### 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: 120 VAC
- Current, Active: 3.6 AMPS
- Current, ECO-Mode: 1 AMP
- Frequency: 50/60 Hz

### PERFORMANCE RATINGS
- Cooling (Traditional): 1220 BTU/HR
- Cooling (Din 3168): 358 WATTS
- Cooling COP (at L35 L35): 0.83
- Heating (Traditional): > 1640 BTU/HR
- Heating (Din 3168): > 480 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>FHP-2250</td>
<td>7-H4J0-0-000</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-H4J0-0-000</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-H4J0-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-2250HC</td>
<td>7-H4J0-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>EXT*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-2250XE</td>
<td>7-H4J0-4-000</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>Heat/Cool, sealed hot side fans &amp; power supply</td>
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<tr>
<td>FHP-2250X</td>
<td>7-H4J0-2-000</td>
<td>Cool only, Mil. grade hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
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<tr>
<td>FHP-2250X</td>
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<td>EXT*</td>
<td>NEMA-4X, IP 56</td>
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<tr>
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<td>7-H4J0-3-000</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-H4J0-3-000</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

### INCLUDES
- Power supply
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input cord
- Circuit breaker

### 250 VDC configuration for crane applications available

**TECA**  
1-888-TECA-USA (832-2872)  
www.thermoelectric.com
**FHP-2250**

**Mounting Style**
Flush Mounted

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

**Rating (Traditional)**
- 1220 BTU/hr @ 0 °F ΔT
- 1770 BTU/hr @ +20 °F ΔT

**Rating (DIN 3168)**
- 358 Watts L35 L35
- 150 Watts L35 L50

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**Equation of line:**

\[
y = \frac{y}{H9004/H9004/H9019/H9019} \times \text{Capacity (Watts)}
\]

<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 = 0.069x - 24.7)</td>
<td>(y = 0.069x - 25.4)</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>(y = 0.053x - 24.7)</td>
<td>(y = 0.053x - 25.4)</td>
</tr>
</tbody>
</table>

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**Dimensions**

- External Hot Side Fans: 13.02 [331]
- Internal Cold Side Fans: 8.53 [217]
- 20.55 [522]
- (14) 10-32 Studs

**Mounting Cutout Dimensions**

- 6.10 [155]  6.10 [155]
- 2.03 [52]   2.03 [52]
- 9.89 [251]
- 9.89 [251]
- 4.65 [120]
- 4.65 [120]
- 9.88 [251]
- 9.88 [251]

Dimensions do not include hardware.
Mounting hardware and gasket included but not shown.
Dimensions in millimeters.