FHP-4250 Air Conditioner/Heat Exchanger

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

120 VAC Input
High Efficiency
2408 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
- Increased efficiency at higher ambients
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Weight 116 LBS.

CONTROL TEMPERATURES
<table>
<thead>
<tr>
<th></th>
<th>Active Cooling</th>
<th>Heat Exchanger (ECO-Mode)</th>
<th>Active Heating</th>
<th>Typical Hysteresis</th>
<th>Operating Ambient</th>
<th>Operating Enclosure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>35 °C</td>
<td>25 °C</td>
<td>10 °C</td>
<td>5 °C</td>
<td>-40/+65 °C</td>
<td>-40/+60 °C</td>
</tr>
</tbody>
</table>

POWER INPUTS
- Voltage: 120 VAC
- Current, Active: 6 AMPS
- Current, ECO-Mode: 1.7 AMP
- Frequency: 50/60 Hz

PERFORMANCE RATINGS
- Cooling (Traditional): 2408 BTU/HR
- Cooling (Din 3168): 706 WATTS
- Cooling COP (at L35 L35): 0.98
- Heating (Traditional): > 2455 BTU/HR
- Heating (Din 3168): > 720 WATTS
- Heating COP: > 1.0
- Heat Exchanger (ECO-Mode): 30 W/°C

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

CONTROL TEMPERATURES

ACTIVE COOLING 35 °C
HEAT EXCHANGER (ECO-Mode) 25 °C
ACTIVE HEATING 10 °C

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250 VDC configuration for crane applications available

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-4250</td>
<td>7-J4J0-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-4250</td>
<td>7-J450-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>EXT*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-4250HC</td>
<td>7-J4I0-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-4250HC</td>
<td>7-J450-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>EXT*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-4250XE</td>
<td>7-J4J0-4-000</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-4250XE</td>
<td>7-J450-4-000</td>
<td>Cool only, sealed hot side fans &amp; power supply</td>
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<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-4250XEH</td>
<td>7-J4J0-2-000</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-4250XEH</td>
<td>7-J450-2-000</td>
<td>Cool only, Mil. grade hot side fans &amp; power supply</td>
<td>EXT*</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>FHP-4250XHC</td>
<td>7-J4I0-3-000</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-4250XHC</td>
<td>7-J450-3-000</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
Air Conditioner - Air Cooled

**FHP-4250**

**MOUNTING STYLE**
Flush Mounted

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

**RATING (TRADITIONAL)**
- 2408 BTU/hr @ 0 °F ΔT
- 3520 BTU/hr @ +20 °F ΔT

**RATING (DIN 3168)**
- 706 Watts L35 L35
- 300 Watts L35 L50

**PERFORMANCE CURVE**

Equation of line: \( y = \Delta T (°C) = \text{Capacity (Watts)} \)

<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>( y = 0.034x - 24 )</td>
<td>( y = 0.034x - 25 )</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>( y = 0.026x - 24 )</td>
<td>( y = 0.026x - 25 )</td>
</tr>
</tbody>
</table>

**DIMENSIONS**

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