FHP-4252 Air Conditioner/Heat Exchanger

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

240 VAC Input
High Capacity
3615 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>Control</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Cooling</td>
<td>35 °C</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-Mode)</td>
<td>25 °C</td>
</tr>
<tr>
<td>Active Heating</td>
<td>10 °C</td>
</tr>
<tr>
<td>Typical Hysteresis</td>
<td>5 °C</td>
</tr>
<tr>
<td>Operating Ambient</td>
<td>-40/+65 °C</td>
</tr>
<tr>
<td>Operating Enclosure</td>
<td>-10/+60 °C</td>
</tr>
</tbody>
</table>

POWER INPUTS

- Voltage: 240 VAC
- Current, Active: 12.5 AMPS
- Current, ECO-Mode: 0.9 AMP
- Frequency: 50/60 Hz

PERFORMANCE RATINGS

<table>
<thead>
<tr>
<th>Model</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling (Traditional)</td>
<td>3615 BTU/HR</td>
</tr>
<tr>
<td>Cooling (Din 3168)</td>
<td>1060 WATTS</td>
</tr>
<tr>
<td>Heating (Traditional)</td>
<td>&gt; 12000 BTU/HR</td>
</tr>
<tr>
<td>Heating (Din 3168)</td>
<td>&gt; 3600 WATTS</td>
</tr>
<tr>
<td>Heating COP</td>
<td>&gt; 1.0</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-Mode)</td>
<td>30 W/°C</td>
</tr>
</tbody>
</table>

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

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

250 VDC configuration for crane applications available

CONCLUSIONS

<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-4252</td>
<td>7-J5J2-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-4252HC</td>
<td>7-J5J2-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-4252XE</td>
<td>7-J5J2-4-000</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-4252XEHC</td>
<td>7-J5J2-5-000</td>
<td>Heat/Cool, sealed hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-4252X</td>
<td>7-J5J2-2-000</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-4252XHC</td>
<td>7-J5J2-3-000</td>
<td>Heat/Cool, Mil. grade hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>
**FHP-4252**

**MOUNTING STYLE**
Flush Mounted

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

**RATING (TRADITIONAL)**
- 3615 BTU/hr @ 0 °F ΔT
- 4725 BTU/hr @ +20 °F ΔT

**RATING (DIN 3168)**
- 1060 Watts L35 L35
- 670 Watts L35 L50

---

**PERFORMANCE CURVE**

Equation of line: \( y = \Delta T(°C) \) \( x = \) 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 = 0.034x - 36 )</td>
<td>( y = 0.034x - 37.9 )</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>( y = 0.025x - 36 )</td>
<td>( y = 0.025x - 37.9 )</td>
</tr>
</tbody>
</table>

---

**DIMENSIONS**

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

---

[External Hot Side Fans]

[Internal Cold Side Fans]

[Mounting Surface]

[Circuit Breaker]

[Input Cord]

(22) 10-32 Studs