FHP-4252 Air Conditioner/Heat Exchanger

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

240 VAC Input
High Efficiency
2615 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.

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-4252</td>
<td>7-J4J2-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
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<td>FHP-4252</td>
<td>7-J4J2-4-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
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<td>FHP-4252HC</td>
<td>7-J4J2-1-000</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>FHP-4252HC</td>
<td>7-J4J2-4-000</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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<tr>
<td>FHP-4252X</td>
<td>7-J4J2-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
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<tr>
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<td>7-J4J2-4-000</td>
<td>Cool only, sealed hot side fans &amp; power supply</td>
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<tr>
<td>FHP-4252XHC</td>
<td>7-J4J2-5-000</td>
<td>Heat/Cool, sealed hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
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<tr>
<td>FHP-4252XHC</td>
<td>7-J4J2-2-000</td>
<td>Cool only, Mil. grade hot side fans &amp; power supply</td>
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<td>NEMA-4, IP 56</td>
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<td>FHP-4252XHC</td>
<td>7-J4J2-3-000</td>
<td>Heat/Cool, Mil. grade hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
</tbody>
</table>

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

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

PERFORMANCE RATINGS

Cooling (Traditional) 2615 BTU/HR
Cooling (Din 3168) 767 WATTS
Cooling COP (at L35 L35) 0.80
Heating (Traditional) > 3270 BTU/HR
Heating (Din 3168) > 960 WATTS
Heating COP > 1.0
Heat Exchanger (ECO-Mode) 30 W/°C

IN 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

CONTROL TEMPERATURES

POWER INPUTS
Voltage 240 VAC
Current, Active 4.0 AMPS
Frequency 50/60 Hz

HEAD to HEAD vs Active Mode

250 VDC configuration for crane applications available

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>
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<tbody>
<tr>
<td>Enclosure Air</td>
<td>( y = 0.035x - 26.8 )</td>
<td>( y = 0.035x - 27.5 )</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>( y = 0.027x - 26.8 )</td>
<td>( y = 0.027x - 27.5 )</td>
</tr>
</tbody>
</table>

**Mounting Style:**
- Flush Mounted

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

**Rating (Traditional):**
- 2615 BTU/hr @ 0 °F \( \Delta T \)
- 3693 BTU/hr @ +20 °F \( \Delta T \)

**Rating (DIN 3168):**
- 767 Watts  L35 L35
- 360 Watts  L35 L50

**Dimensions:**
- External Hot Side Fans: 25.02 [636]
- Internal Cold Side Fans: 20.52 [521]
- Mounting Surface: 8.53 [217]
- Circuit Breaker: 1.00 [25]
- Input Cord: 4.95 [126]
- (22) 10-32 Studs: 9.89 [251]

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

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