FHP-3252 Air Conditioner/Heat Exchanger

Air Cooled
Flush Mounted
Nema-12, 4, 4X
240 VAC Input
High Capacity
2290 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 ambient temperatures
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Weight 93 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: 240 VAC
- Current, Active: 4.6 A
- Current, ECO-Mode: 0.70 A
- Frequency: 50/60 Hz

PERFORMANCE RATINGS
- Cooling (Traditional): 2290 BTU/HR
- Cooling (Din 3168): 672 WATTS
- Cooling COP (at L35 L35): 0.61
- Heating (Traditional): > 3765 BTU/HR
- Heating (Din 3168): > 1104 WATTS
- Heating COP: > 1.0
- Heat Exchanger (ECO-Mode): 18 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-3252</td>
<td>7-1412-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-3252</td>
<td>7-1452-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>EXT*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-3252HC</td>
<td>7-1412-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-3252HC</td>
<td>7-1452-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>EXT*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-3252XE</td>
<td>7-1412-4-000</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-3252XE</td>
<td>7-1452-4-000</td>
<td>Cool only, sealed hot side fans &amp; power supply</td>
<td>EXT*</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-3252XEHC</td>
<td>7-1412-5-000</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-3252XEHC</td>
<td>7-1452-5-000</td>
<td>Heat/Cool, sealed hot side fans &amp; power supply</td>
<td>EXT*</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-3252X</td>
<td>7-1412-2-000</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-3252X</td>
<td>7-1452-2-000</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-3252XH</td>
<td>7-1412-3-000</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-3252XH</td>
<td>7-1452-3-000</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
**FHP-3252**

**MOUNTING STYLE**
Flush Mounted

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

**RATING (TRADITIONAL)**
- 2290 BTU/hr @ 0 °F ΔT
- 3115 BTU/hr @ +20 °F ΔT

**RATING (DIN 3168)**
- 672 Watts L35 L35
- 360 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 = 0.046x - 30.9 )</td>
<td>( y = 0.046x - 32 )</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>( y = 0.034x - 30.9 )</td>
<td>( y = 0.034x - 32 )</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: 9.10 [231] [152]
- Internal Cold Side Fans: 9.10 [231] [152]
- Circuit Breakers: 8.5 [216] [216]
- Mounting Cutout: 17.20X18.90 [437X480]

---

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