FHP-1501 Air Conditioner

Air Cooled
Flush Mounted
NEMA-12, NEMA-4

24 VDC Input
950 BTU/HR

**FEATURES**

- Externally mounted (no intrusion)
- Mounts in multi-unit array for incremental capacity
- Compact (only 15” X 12” X 9”)
- Mounts in any orientation (condensate control may not work properly in all orientations)
- No moving parts except fans
- Environmentally safe
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Stainless steel exterior housing
- Custom finishes
- Operating ambient temperature range -40/+70 °C
- Operating enclosure temperature range -10/+60 °C
- Weight 55 LBS.

**POWER INPUTS**

- Voltage: 24 VDC
- Current, Active: 18 AMPS

**PERFORMANCE RATINGS**

- Cooling (Traditional): 950 BTU/HR
- Cooling (Din 3168): 278 WATTS
- Cooling COP (at L35 L35): 0.64
- Heating (Traditional): 1470 BTU/HR
- Heating (Din 3168): 430 WATTS
- Heating COP (at L35 L35): > 1.0

**CONTROL TEMPERATURES**

<table>
<thead>
<tr>
<th>Temp. Active Heat °C</th>
<th>ECO-Mode °C</th>
<th>Active Cool °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC-1F</td>
<td>-</td>
<td>- 35</td>
</tr>
<tr>
<td>TC-6F</td>
<td>-</td>
<td>25 or 35</td>
</tr>
<tr>
<td>TC-3F</td>
<td>10</td>
<td>35</td>
</tr>
<tr>
<td>TC-7F</td>
<td>10 25 35</td>
<td></td>
</tr>
</tbody>
</table>

**INCLUDES**

- Mounting gasket and hardware
- Power input leads
- Condensate control system

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-1501</td>
<td>7-2185-0-000</td>
<td>Cool only</td>
<td>TC-6F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-1501</td>
<td>7-21F5-0-000</td>
<td>Cool only</td>
<td>TC-1F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-1501</td>
<td>7-2155-0-000</td>
<td>Cool only</td>
<td>EXT</td>
<td>NEMA-12, IP 52</td>
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<tr>
<td>FHP-1501HC</td>
<td>7-2135-1-000</td>
<td>Cool only</td>
<td>TC-3F</td>
<td>NEMA-12, IP 52</td>
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<tr>
<td>FHP-1501HC</td>
<td>7-2115-1-000</td>
<td>Heat/Cool</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-1501HC</td>
<td>7-2115-1-000</td>
<td>Heat/Cool</td>
<td>EXT</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-1501HC</td>
<td>7-2115-1-000</td>
<td>Heat/Cool</td>
<td>TC-4600</td>
<td>NEMA-12, IP 52</td>
</tr>
</tbody>
</table>

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

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

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

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>20°C</th>
<th>40°C</th>
<th>60°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>$y = 0.117x - 30.6$</td>
<td>$y = 0.117x - 32.6$</td>
<td>$y = 0.117x - 35.0$</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>$y = 0.093x - 30.6$</td>
<td>$y = 0.093x - 32.6$</td>
<td>$y = 0.093x - 35.0$</td>
</tr>
</tbody>
</table>

FHP-1501

MOUNTING STYLE
Flush Mounted

ENVIRONMENTS SERVED
NEMA-12 IP 52
NEMA-4 IP 56

RATING (TRADITIONAL)
950 BTU/hr @ 0 °F $\Delta T$
1270 BTU/hr @ +20 °F $\Delta T$

RATING (DIN 3168)
278 Watts L35 L35
162 Watts L35 L50

DIMENSIONS

Air Conditioner - Air Cooled

Air Flow Pattern