AHP-470 Air Conditioner/Heat Exchanger

24 VDC
315 BTU/HR

**FEATURES**

- Compact (only 10” X 5.84” X 7.75”)
- Mounts and operates in any orientation: horizontal, vertical, etc.
- Low vibration and noise
- No moving parts except fans
- Environmentally safe
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Stainless steel exterior housing
- Efficient heat exchanger mode (ECO-Mode)
- Easy to use Pivot Clean feature
- Weight 14 LBS.

**CONTROL TEMPERATURES**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></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/+70 °C</td>
</tr>
<tr>
<td>Operating Enclosure</td>
<td>-10/+60 °C</td>
</tr>
</tbody>
</table>

**POWER INPUTS**

- Voltage 24 VDC
- Current, Active 7.0 AMPS
- Current, ECO-Mode 0.3 AMPS

**PERFORMANCE RATINGS**

- Cooling (Traditional) 315 BTU/HR
- Cooling (Din 3168) 95 WATTS
- Cooling COP (at L35 L35) 0.56
- Heating (Traditional) > 572 BTU/HR
- Heating (Din 3168) > 168 WATTS
- Heating COP > 1.0

**INCLUDES**

- Temperature controller
- Mounting gasket
- Mounting hardware
- Power input leads
- Power saving heat exchanger mode (ECO-Mode)

**MODEL 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>AHP-470</td>
<td>0-F0J5-0-001</td>
<td>Cool only, industrial fans</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-470HC</td>
<td>0-F095-1-001</td>
<td>Heat/Cool, industrial fans</td>
<td>None*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-470HC</td>
<td>0-F015-1-001</td>
<td>Heat/Cool, industrial fans</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-470XE</td>
<td>0-F0J5-4-001</td>
<td>Cool only, sealed hot side fan</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-470XEH</td>
<td>0-F095-5-001</td>
<td>Heat/Cool, sealed hot side fan</td>
<td>None*</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-470XEH</td>
<td>0-F015-5-001</td>
<td>Heat/Cool, sealed hot side fan</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-470X</td>
<td>0-F0J5-2-001</td>
<td>Cool only, Mil. grade hot side fan</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-470XHC</td>
<td>0-F095-3-001</td>
<td>Heat/Cool, Mil. grade hot side fan</td>
<td>None*</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-470XMHC</td>
<td>0-F015-3-001</td>
<td>Heat/Cool, Mil. grade fans</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-470XMHC</td>
<td>0-F0J5-3-011</td>
<td>Heat/Cool, Mil. grade fans</td>
<td>TC-4F</td>
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</tr>
</tbody>
</table>

* For controller options contact TECA; Heating function via reverse polarity (controller dependent)
PERFORMANCE CURVE

Equation of Line: \( y = DT(°C) \times \text{Capacity (Watts)} \)

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>20°C</th>
<th>60°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-470</td>
<td>( y = 0.42x - 38.9 )</td>
<td>( y = 0.42x - 41.5 )</td>
</tr>
</tbody>
</table>

DIMENSIONS

* Dimension does not include hardware and sealant.
Mounting hardware and gasket included but not shown.
Dimensions: Inches [Millimeters]

Air Conditioner - Air Cooled

AHP-470

MOUNTING STYLE
Through Mounted

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

RATING (TRADITIONAL)
AHP-470  315 BTU/hr @ 0 °F D T
405 BTU/hr @ +20 °F D T

RATING (DIN 3168)
AHP-470  95 Watts L35 L35
62 Watts L35 L50

DIMENSIONS

INTERNAL COLD SIDE FAN

MOUNTING CUTOUT DIMENSIONS

External Hot Side Fan

Mounting Surface

(4) 6-32 Mounting Taps

(4) 10-32 Mounting Taps

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