FHP-401 Air Conditioner

Air Cooled
Flush Mounted
Nema-12

120 VAC or 240 VAC
190 BTU/HR

**FEATURES**
- Compact (only 10" X 5.86" X 9")
- 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)
- Suitable for NEMA-12 (IP 52) environment
- Operating ambient temperature range -40/+70 °C
- Operating enclosure temperature range -10/+60 °C
- Weight 18 LBS.

**CONTROL TEMPERATURES**
- Active Cooling (TC-1F, TC-3F) 35 °C
- Active Heating (TC-3F) 10 °C
- Typical Hysteresis 5 °C
- Operating Ambient -40/+70 °C
- Operating Enclosure -10/+60 °C

**PERFORMANCE RATINGS**
- Cooling (Traditional) 190 BTU/HR
- Cooling (Din 3168) 56 WATTS
- Cooling COP (at L35 L35) 0.38

**INCLUDED**
- Temperature controller
- Mounting gasket
- Mounting hardware
- Integral power input cord

**POWER INPUTS**
- Voltage 120 or 240 VAC
- Current, Active 1.2 / 0.65 AMPS

**CONFIGURATIONS**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>VOLTAGE VAC</th>
<th>CURRENT AMPS</th>
<th>TEMPERATURE CONTROL</th>
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<tbody>
<tr>
<td>FHP-401</td>
<td>7-F090-0-001</td>
<td>Cool only</td>
<td>120</td>
<td>1.2</td>
<td>None</td>
</tr>
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<td>7-F090-0-001</td>
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<td>1.2</td>
<td>EXT*</td>
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<tr>
<td>FHP-401</td>
<td>7-F030-1-001</td>
<td>Heat/Cool</td>
<td>120</td>
<td>1.2</td>
<td>TC-3F</td>
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<td>FHP-402</td>
<td>7-F092-0-001</td>
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<td>240</td>
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<td>TC-3F</td>
</tr>
</tbody>
</table>

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

**Equation of Line:**

\[ y = \frac{0.69}{T(°C)} x \]

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>Capacity (Watts)</th>
<th>y = 0.69x-38</th>
<th>y = 0.69x-39</th>
</tr>
</thead>
<tbody>
<tr>
<td>30°C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50°C</td>
<td></td>
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<tr>
<td>Enclosure Air</td>
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</table>

**DIMENSIONS**

- External Hot Side Fan: 10.00 [254mm] x 5.86 [149mm]
- Mounting Surface: 9.00 [229mm]
- Internal Cold Side Fan: 3.51 [89mm] x 4.86 [123mm]
- Power Input Leads: 0.96 [24mm] x 5.00 [127mm]

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

**MOUNTING CUTOUT DIMENSIONS**

- Ø4.700 [Ø119mm]
- 4.51 [114mm]
- 2.15 [55mm]
- 2.43 [62mm]
- 0.86 [22mm]
- 5.00 [127mm]
- 6xØ0.218 [Ø6]

**MOUNTING STYLE**

Flush Mounted

**ENVIRONMENTS SERVED**

NEMA-12 IP 52

**RATING (TRADITIONAL)**

- 190 BTU/hr @ 0 °F \(\Delta T\)
- 240 BTU/hr @ +20 °F \(\Delta T\)

**RATING (DIN 3168)**

- 56 Watts L35 L35
- 35 Watts L35 L50

**Air Conditioner - Air Cooled**

**FHP-401**

Air Flow Pattern