# FHP-750 Air Conditioner

**Features**
- Externally mounted, no intrusion
- Compact (only 12”L X 6”W X 9”D)
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Stainless steel exterior housing
- NEMA-4 and NEMA-12 versions
- Both 120 VAC and 240 VAC available
- Mounts in any orientation (condensate control may not work properly in all orientations)
- Custom finishes
- Operating ambient temperature range -40/+70 °C
- Operating enclosure temperature range -10/+60 °C
- Weight 16 LBS.

## Power Inputs
- **Voltage**: 24 VDC
- **Current, Active**: 9.0 AMPS

## Performance Ratings
- **Cooling (Traditional)**: 430 BTU/HR
- **Cooling (Din 3168)**: 125 WATTS
- **Cooling COP (at L35 L35)**: 0.58
- **Heating (Traditional)**: 735 BTU/HR
- **Cooling (Din 3168)**: 216 WATTS
- **Heating COP (at L35 L35)**: > 1.0

## Control Temperatures
<table>
<thead>
<tr>
<th>Control</th>
<th>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>-</td>
<td>35</td>
</tr>
<tr>
<td>TC-6F</td>
<td>-</td>
<td>-</td>
<td>25 or 35</td>
</tr>
</tbody>
</table>

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

## 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-750</td>
<td>7-A585-0-000</td>
<td>Cool only, industrial fans</td>
<td>TC-6F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-750</td>
<td>7-A5F5-0-000</td>
<td>Cool only, industrial fans</td>
<td>TC-1F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-750</td>
<td>7-A555-0-000</td>
<td>Cool only, industrial fans</td>
<td>EXT*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-750HC</td>
<td>7-A595-1-000</td>
<td>Heat/Cool, industrial fans</td>
<td>EXT†</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-750XE</td>
<td>7-A585-4-000</td>
<td>Cool only, sealed hot side fan</td>
<td>TC-6F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-750XE</td>
<td>7-A5F5-4-000</td>
<td>Cool only, sealed hot side fan</td>
<td>TC-1F</td>
<td>NEMA-4, IP 56</td>
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<td>7-A595-5-000</td>
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<td>EXT†</td>
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</tr>
</tbody>
</table>

* Unit is set for 5-32 VDC external signal, relay(s) included
† Unit can be used with external H-Bridge and controller
**FHP-750**

**Mounting Style**

Flush Mounted

**Environments Served**

- NEMA-12  IP 52
- NEMA-4  IP 56

**Rating (Traditional)**

- 430 BTU/hr @ 0 °F ΔT
- 560 BTU/hr @ +20 °F ΔT

**Rating (DIN 3168)**

- 125 Watts  L35 L35
- 78 Watts  L35 L50

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**Performance Curve**

Equation of line: \( y = \Delta T(\degree{C}) \times \text{Capacity (Watts)} \)

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>Enclosure Air</th>
<th>Cold Sink</th>
</tr>
</thead>
<tbody>
<tr>
<td>20°C</td>
<td>( y = 0.29x - 34.5 )</td>
<td>( y = 0.18x - 34.5 )</td>
</tr>
<tr>
<td>40°C</td>
<td>( y = 0.29x - 36.5 )</td>
<td>( y = 0.18x - 36.5 )</td>
</tr>
<tr>
<td>60°C</td>
<td>( y = 0.29x - 38.5 )</td>
<td>( y = 0.18x - 38.5 )</td>
</tr>
</tbody>
</table>

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**Dimensions**

- **Mounting Cutout Dimension**
  - 2.53 [64] 6.22 [158]
  - 2.25 [57] 6X80.218 [Ø6]

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**Air Conditioner - Air Cooled**

Air Flow Pattern