**FHP-750**

**Air Conditioner**

- 48 VDC Input
- 430 BTU/HR

**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 | 48 VDC |
| Current, Active | 4.5 AMPS |

**PERFORMANCE RATINGS**

- Cooling (Traditional) 430 BTU/HR
- Cooling (Din 3168) 125 WATTS
- Heating (Din 3168) 735 BTU/HR
- Heating COP (at L35 L35) > 1.0

**POWER INPUTS**

- Cooling (Traditional) 430 BTU/HR
- Cooling (Din 3168) 125 WATTS
- Heating (Traditional) 735 BTU/HR
- Heating COP (at L35 L35) 0.58

**CONTROL TEMPERATURES**

<table>
<thead>
<tr>
<th>Temp. 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-A586-0-000</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-A5F6-0-000</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-A556-0-000</td>
<td>Cool only, industrial fans</td>
<td>EXT*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-750HC</td>
<td>7-A596-1-000</td>
<td>Heat/Cool, industrial fans</td>
<td>EXT†</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-750XE</td>
<td>7-A586-4-000</td>
<td>Cool only, sealed hot side fan</td>
<td>TC-6F</td>
<td>NEMA-4/4X, IP 56</td>
</tr>
<tr>
<td>FHP-750XE</td>
<td>7-A5F6-4-000</td>
<td>Cool only, sealed hot side fan</td>
<td>TC-1F</td>
<td>NEMA-4/4X, IP 56</td>
</tr>
<tr>
<td>FHP-750XE</td>
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</tr>
<tr>
<td>FHP-750XEHC</td>
<td>7-A596-5-000</td>
<td>Heat/Cool, sealed hot side fan</td>
<td>EXT†</td>
<td>NEMA-4/4X, IP 56</td>
</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
### PERFORMANCE CURVE

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

Equation of line: $y = \Delta T(\circ C)$  $x =$ Capacity (Watts)

### DIMENSIONS

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

### FHP-750

**MOUNTING STYLE**
- Flush Mounted

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

**RATING (TRADITIONAL)**
- $430$ BTU/hr @ $0^\circ F \Delta T$

**RATING (DIN 3168)**
- $125$ Watts L35 L35
- $78$ Watts L35 L50

**Air Conditioner - Air Cooled**

**Air Flow Pattern**

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