IHP-470
Internal Mount Air Conditioner/Heat Exchanger
Air Cooled
Internal Mounted
Nema-12, 4, 4X

24 VDC
228 BTU/HR

FEATURES
• Compact (only 17.4” X 8” X 7.8”)
• Mounts and operates in any orientation, inside enclosure
• Available in two installation styles:
  - Style A: Installs from inside of the enclosure
  - Style B: Installs from outside of the enclosure
• Low vibration and noise
• No moving parts except fans
• Environmentally safe
• No compressor, fluorocarbons or filters
• Virtually maintenance-free operation
• Stainless steel housing
• Efficient heat exchanger mode (ECO-Mode)
• Weight 16 LBS.

CONTROL TEMPERATURES
Active Cooling 35 °C
Heat Exchanger (ECO-Mode) 25 °C
Active Heating 10 °C
Typical Hysteresis 5 °C
Operating Ambient -40/+70 °C
Operating Enclosure -10/+60 °C

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

PERFORMANCE RATINGS
Cooling (Traditional) 228 BTU/HR
Cooling (Din 3168) 67 WATTs
Cooling COP (at L35 L35) 0.40
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)

Picture above shows both installation styles
Shown on the left is the Style A (installs from inside of the enclosure)
Shown on the right is the Style B (installs from outside of the enclosure)
## PERFORMANCE CURVE

**Equation of Line:**  
\[ y = \frac{\Delta T}{\text{Ambient Temp}} + \frac{\Delta T}{50°C} \cdot \text{Capacity (Watts)} \]

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>35°C</th>
<th>50°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHP-470</td>
<td>( y = 0.44x - 29.6 )</td>
<td>( y = 0.44x - 30.8 )</td>
</tr>
</tbody>
</table>

### CONFIGURATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>INSTALLATION STYLE</th>
<th>TEMPERATURE CONTROL</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHP-470</td>
<td>B-F0J5-0-001</td>
<td>Cool only, industrial fans</td>
<td>A</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>IHP-470HC</td>
<td>B-F095-1-001</td>
<td>Heat/Cool, industrial fans</td>
<td>A</td>
<td>None*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>IHP-470HC</td>
<td>B-F015-1-001</td>
<td>Heat/Cool, industrial fans</td>
<td>A</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>IHP-470XE</td>
<td>B-F0J5-4-001</td>
<td>Cool only, sealed hot side fan</td>
<td>A</td>
<td>TC-4F</td>
<td>NEMA-4/4X, IP 56</td>
</tr>
<tr>
<td>IHP-470XEHC</td>
<td>B-F095-5-001</td>
<td>Heat/Cool, sealed hot side fan</td>
<td>A</td>
<td>None*</td>
<td>NEMA-4/4X, IP 56</td>
</tr>
<tr>
<td>IHP-470XHC</td>
<td>B-F015-5-001</td>
<td>Heat/Cool, sealed hot side fan</td>
<td>A</td>
<td>TC-7F</td>
<td>NEMA-4/4X, IP 56</td>
</tr>
<tr>
<td>IHP-470XHC</td>
<td>B-F015-5-002</td>
<td>Cool only, Mil. grade hot side fan</td>
<td>A</td>
<td>TC-4F</td>
<td>NEMA-4X/Harsh, IP 56</td>
</tr>
<tr>
<td>IHP-470XHC</td>
<td>B-F015-5-003</td>
<td>Heat/Cool, Mil. grade hot side fan</td>
<td>A</td>
<td>None*</td>
<td>NEMA-4X/Harsh, IP 56</td>
</tr>
<tr>
<td>IHP-470X</td>
<td>B-F0J5-2-001</td>
<td>Cool only, industrial fans</td>
<td>B</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>IHP-470HC</td>
<td>B-F095-1-101</td>
<td>Heat/Cool, industrial fans</td>
<td>B</td>
<td>None*</td>
<td>NEMA-12, IP 5</td>
</tr>
<tr>
<td>IHP-470HC</td>
<td>B-F015-1-101</td>
<td>Heat/Cool, industrial fans</td>
<td>B</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>IHP-470XE</td>
<td>B-F0J5-4-101</td>
<td>Cool only, sealed hot side fan</td>
<td>B</td>
<td>TC-4F</td>
<td>NEMA-4/4X, IP 56</td>
</tr>
<tr>
<td>IHP-470XEHC</td>
<td>B-F095-5-101</td>
<td>Heat/Cool, sealed hot side fan</td>
<td>B</td>
<td>None*</td>
<td>NEMA-4/4X, IP 56</td>
</tr>
<tr>
<td>IHP-470XHC</td>
<td>B-F015-5-101</td>
<td>Heat/Cool, sealed hot side fan</td>
<td>B</td>
<td>TC-7F</td>
<td>NEMA-4X/Harsh, IP 56</td>
</tr>
<tr>
<td>IHP-470X</td>
<td>B-F0J5-2-101</td>
<td>Cool only, Mil. grade hot side fan</td>
<td>B</td>
<td>TC-4F</td>
<td>NEMA-4X/Harsh, IP 56</td>
</tr>
<tr>
<td>IHP-470XHC</td>
<td>B-F095-3-101</td>
<td>Heat/Cool, Mil. grade hot side fan</td>
<td>B</td>
<td>None*</td>
<td>NEMA-4X/Harsh, IP 56</td>
</tr>
<tr>
<td>IHP-470XHC</td>
<td>B-F015-3-101</td>
<td>Heat/Cool, Mil. grade hot side fan</td>
<td>B</td>
<td>TC-7F</td>
<td>NEMA-4X/Harsh, IP 56</td>
</tr>
</tbody>
</table>

* For controller options contact TECA; Heating function via reverse polarity (controller dependent)
DIMENSIONS (Style A: Installs from inside of the enclosure)

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

DIMENSIONS (Style B: Installs from outside of the enclosure)

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