**IHP-470**

**Internal Mount Air Conditioner/Heat Exchanger**

Air Cooled  
Internal Mounted  
Nema-12, 4, 4X

24 VDC  
228 BTU/HR

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**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)

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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:** \( y = \frac{11(\text{°C})}{x} \) \( x = \text{Capacity (Watts)} \)

<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>
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<tr>
<td>IHP-470HC</td>
<td>B-F0I5-1-001</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, IP 56</td>
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<tr>
<td>IHP-470XEHC</td>
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<td>Heat/Cool, sealed hot side fan</td>
<td>A</td>
<td>None*</td>
<td>NEMA-4, IP 56</td>
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<td>NEMA-4, IP 56</td>
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<tr>
<td>IHP-470X</td>
<td>B-F0J5-0-101</td>
<td>Cool only, industrial fans</td>
<td>B</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
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<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>
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<tr>
<td>IHP-470HC</td>
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<td>Heat/Cool, industrial fans</td>
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<td>B-F095-5-101</td>
<td>Heat/Cool, sealed hot side fan</td>
<td>B</td>
<td>None*</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>IHP-470XEHC</td>
<td>B-F0I5-5-101</td>
<td>Heat/Cool, sealed hot side fan</td>
<td>B</td>
<td>TC-7F</td>
<td>NEMA-4, 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-4, 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-4, IP 56</td>
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<tr>
<td>IHP-470XHC</td>
<td>B-F0I5-3-101</td>
<td>Heat/Cool, Mil. grade hot side fan</td>
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<td>TC-7F</td>
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</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]