FHP-2259

Air Conditioner/Heat Exchanger

Air Cooled
Flush Mounted
Nema-12, 4

100-240 VAC Input
High Capacity
1660 BTU/HR

FEATURES
- High capacity thermoelectric design
- Power saving air to air heat exchanger mode (ECO-Mode)
- Heavy duty full perimeter mounting
- No intrusion into enclosure
- Central input cord for easy mounting
- Closed loop design
- Condensate control and evaporation system
- Compact
- Increased efficiency at higher ambient by as much as 10%
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Weight 66 LBS.

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-2259</td>
<td>7-H5JB-0-000</td>
<td>Cool only, industrial fans</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
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<tr>
<td>FHP-2259</td>
<td>7-H55B-0-000</td>
<td>Cool only, industrial fans</td>
<td>EXT*</td>
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<td>Heat/Cool, industrial fans</td>
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<td>FHP-2259XE</td>
<td>7-H5JB-4-000</td>
<td>Cool only, sealed hot side fans</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
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<td>Heat/Cool, industrial fans</td>
<td>TC-5300D</td>
<td>NEMA-12, IP 52</td>
</tr>
</tbody>
</table>

† Precise temperature control model

INCLUDES
- Power supply
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input cord

CONTROL TEMPERATURES

- Active Cooling: 35 °C
- Heat Exchanger (ECO-Mode): 25 °C
- Active Heating: 10 °C
- Typical Hysteresis: 5 °C
- Operating Ambient: -40/+65 °C
- Operating Enclosure: -10/+60 °C

POWER INPUTS

- Input Voltage: 100 - 240 VAC
- Current, Active: 8.4 - 3.5 AMPS
- Alternate Input Voltage: 127 - 374 VDC
- Current, ECO-Mode: 1 AMP
- Frequency: 47 - 63 / 440 Hz
- Power Consumption: 840 Watts

PERFORMANCE RATINGS

- Cooling (Traditional): 1660 BTU/HR
- Cooling (Din 3168): 486 WATTS
- Cooling COP (at L35 L35): 0.58
- Heating (Traditional): > 2780 BTU/HR
- Heating (Din 3168): > 816 WATTS
- Heating COP: > 1.0
- Heat Exchanger (ECO-Mode): 12.5 W/°C

TECA 1-888-TECA-USA (832-2872) www.thermoelectric.com
**Performance Curve**

**Equation of line:** \( y = \Delta T(°C) \) \( x = \) Capacity (Watts)

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>35°C</th>
<th>50°C</th>
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</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>( y = 0.065x - 31.6 )</td>
<td>( y = 0.065x - 33 )</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>( y = 0.048x - 31.6 )</td>
<td>( y = 0.048x - 33 )</td>
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**Mounting Style**
- Flush Mounted

**Environments Served**
- NEMA-12 IP 52
- NEMA-4 IP 56

**Rating (Traditional)**
- 1660 BTU/hr @ 0 °F ΔT

**Rating (DIN 3168)**
- 486 Watts L35 L35
- 276 Watts L35 L50

**Dimensions**

- **Mounting Cutout Dimensions**
  - H: 8.58 [218]
  - W: 11.00 [279]
  - D: 9.46 [240]
  - V: 14 x 0.218 [6]

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  - Flush Mounted

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  - NEMA-4 IP 56

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  - 1660 BTU/hr @ 0 °F ΔT

- **Rating (DIN 3168)**
  - 486 Watts L35 L35
  - 276 Watts L35 L50

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

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