PowerCool Series Thermoelectric Cooler Assembly
The AA-200-24-22 is an Air-to-Air Thermoelectric Assembly (TEA) that uses impingement flow to transfer heat. It offers dependable, compact performance by cooling objects via convection. Heat is absorbed and dissipated through high density heat exchangers equipped with air ducted shrouds and brand name fans. The heat pumping action is created by thermoelectric modules, which are custom designed to achieve a high coefficient of performance (COP). It has a maximum Qc of 193.6 Watts when ΔT = 0 and a maximum ΔT of 47 °C at Qc = 0.

Features
- Compact design
- Precise temperature control
- Reliable solid-state operation
- Low noise
- RoHS-compliant

Applications
- Medical Diagnostic and Analytical Instrumentation
- Thermoelectric Coolers and Assemblies for Medical Applications
- Liquid Cooling Options for PET and SPECT Scanners
- Cooling for Centrifuges
- High-Performance Liquid Chromatography (HPLC)

ELECTRICAL AND THERMAL PERFORMANCE

Heat Pumped at Cold Side (Qc)
Tambient = 35°C | Tcontrol = 20°C

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SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Specification Details</th>
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</thead>
<tbody>
<tr>
<td>Operating Temperature Range</td>
<td>-10 °C to 48°C</td>
</tr>
<tr>
<td>Supply Voltage</td>
<td>24.0 VDC nominal / 30.0 VDC maximum</td>
</tr>
<tr>
<td>Current Draw</td>
<td>10.1 A running / 13.0 A startup</td>
</tr>
<tr>
<td>Power Supply</td>
<td>271.0 Watts</td>
</tr>
<tr>
<td>Performance Tolerance</td>
<td>10%</td>
</tr>
<tr>
<td>Fan MTBF</td>
<td>40,000 hours</td>
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<tr>
<td>Weight</td>
<td>6.00 kg</td>
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</tbody>
</table>

NOTES

1. For indoor use only

2. Units are generally maintenance free, however occasionally it is recommended to clean the heat sinks and fans of debris. This is best done with compressed air.