PowerCool Series Thermoelectric Cooler Assembly

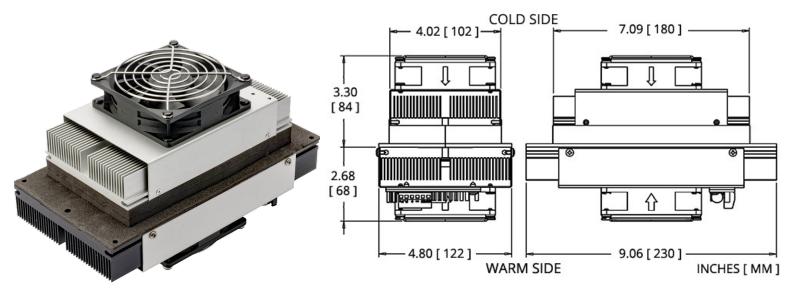
The AA-070-24-22 is an Air-to-Air Thermoelectric Cooler Assembly that uses impingement flow to transfer heat. It offers dependable, compact performance by cooling objects via convection. Heat is absorbed and dissipated through high density heat exchangers equipped with air ducted shrouds and brand name 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 71 Watts when $\Delta T = 0$ and a maximum ΔT of 36 °C at Qc = 0.

Features

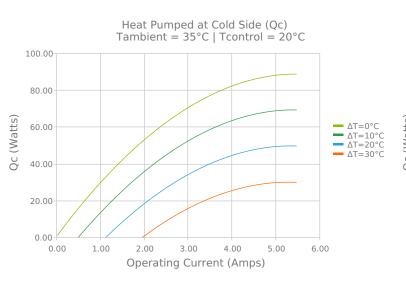
- Compact design
- Precise temperature control
- Reliable solid-state operation
- Low noise
- RoHS-compliant

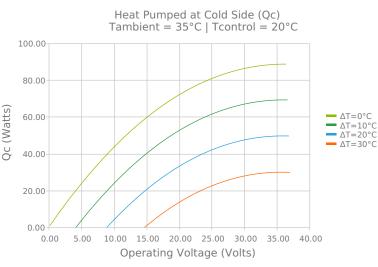
Applications

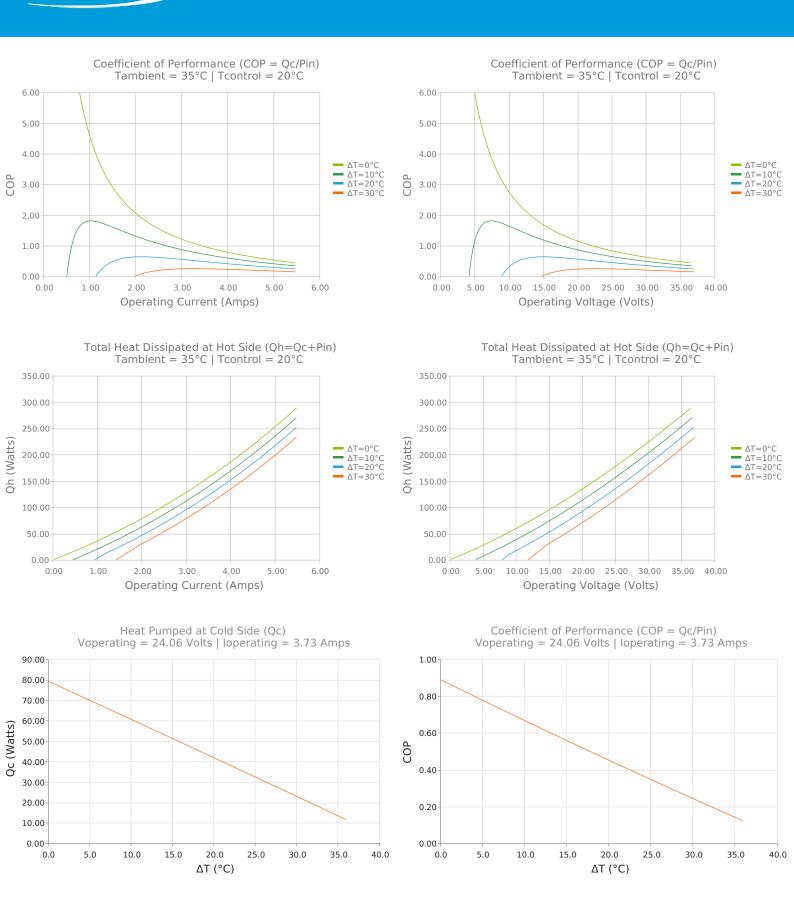
- Medical Diagnostic and Analytical Instrumentation
- Thermoelectric Coolers and Assemblies for Medical Applications
- Liquid Cooling Options for PET and SPECT Scanners
- Cooling for Centrifuges
- High-Performance Liquid Chromatography (HPLC)
- Heating and Cooling for Liquid Chromatography Systems



ELECTRICAL AND THERMAL PERFORMANCE







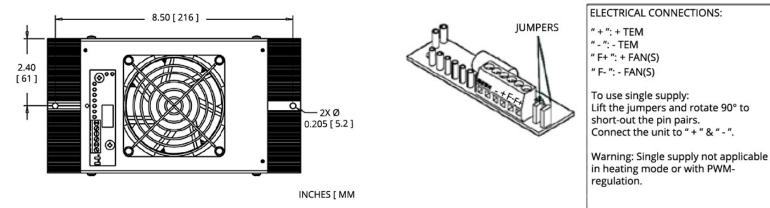
SPECIFICATIONS

Operating Temperature Range
Supply Voltage
Current Draw
Power Supply
Performance Tolerance
Fan MTBF
Weight

MOUNTING HOLE LOCATION

-10°C to 48°C
24.0 VDC nominal / 30.0 VDC maximum
3.4 A running / 4.7 A startup
91.0 Watts
10%
40,000 hours
2.50 kg

WIRING SCHEMATIC



NOTES

¹For indoor use only

²Units 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.

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