

PowerCool Series Thermoelectric Cooler Assembly

The DA-024-24-02 is a Direct-to-Air Thermoelectric Cooler Assembly that uses impingement flow to transfer heat. It offers dependable, compact performance by cooling objects via conduction. Heat is absorbed through a cold plate and dissipated thru a high density heat exchanger equipped with an air ducted shroud and brand name fan. It has a maximum Qc of 24 Watts when $\Delta T = 0$ and a maximum ΔT of 44 °C at Qc = 0.



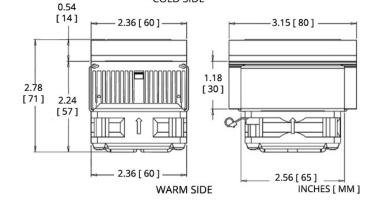
Features

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

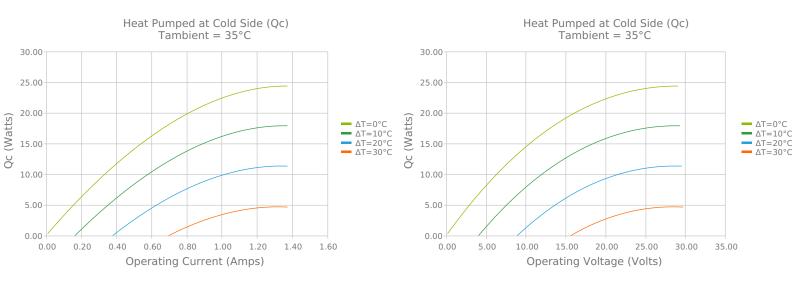
PowerCool Series DA-024-24-02 MFG Part Number: DA-024-24-02-00-00

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 COLD SIDE

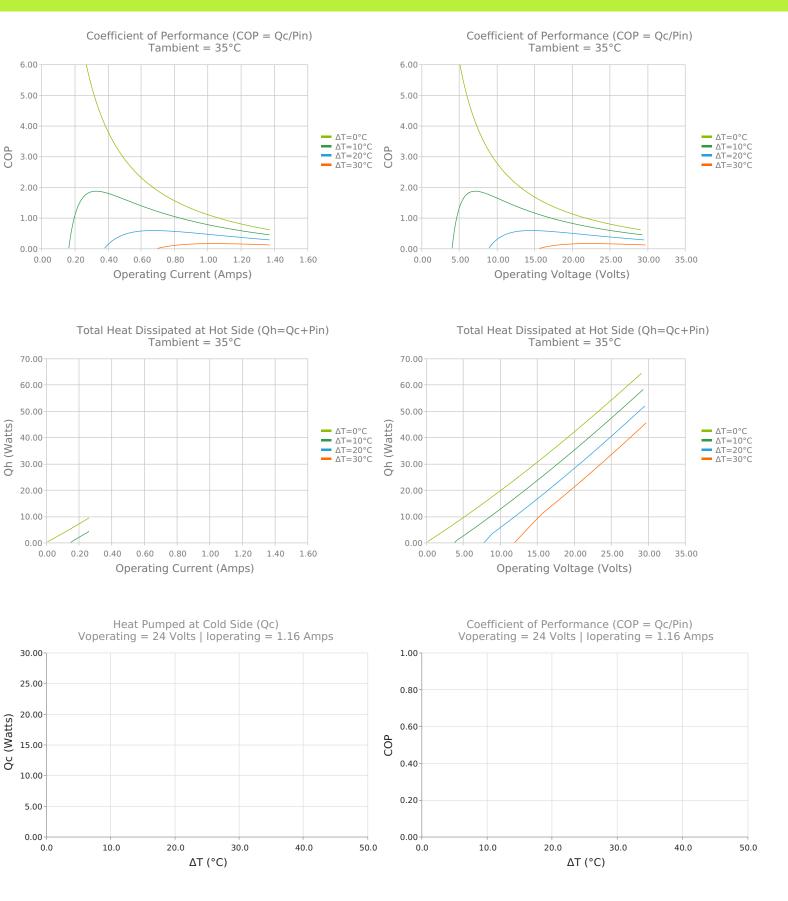


CE ROHS



Electrical and Thermal Performance

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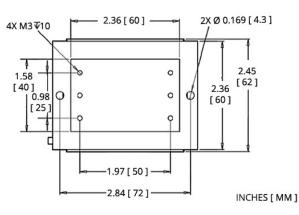
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Specifications

Heat Transfer Mechanism, Cold Side	Direct - Conduction
Heat Transfer Mechanism, Hot Side	Air - Forced Convection
Operating Temperature Range	-10°C to 48°C
Supply Voltage	24.0 VDC nominal / 29.5 VDC maximum
Current Draw	1.6 A running / 2.0 A startup
Power Supply	29.0 Watts
Performance Tolerance	10%
Hi-Pot Testing	No Testing
Fan MTBF	50000 hours
Weight	0.30 kg
Panel Mounting	Flush Mount

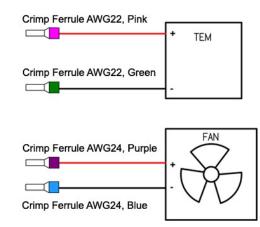


Mounting Hole Location



Wiring Schematic

WIRING DIAGRAM



Notes

¹ For indoor use only	
² it is recommended to clean the heat sinks and fans of debris. This is best done with compressed air.	

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