

PowerCool Series Thermoelectric Cooler Assembly

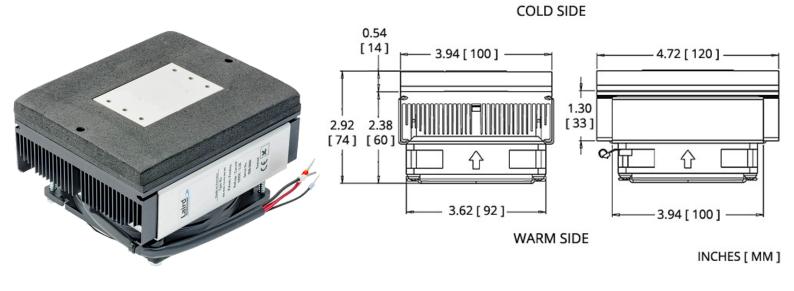
The DA-044-12-02 is a Direct-to-Air Thermoelectric Cooler Assembly that uses impingement flow to transfer heat. It offers dependable, compact performance by cooling objects via conduction. Heat is absorbed through a cold plate and dissipated thru a high density heat exchanger equipped with an air ducted shroud and brand name fan. It has a maximum Qc of 42 Watts when $\Delta T=0$ and a maximum ΔT of 41 °C at Qc = 0.

Features

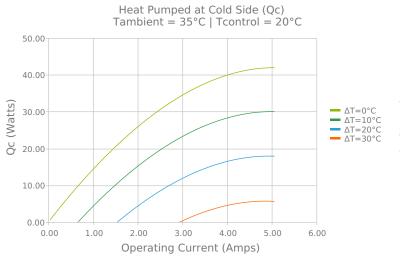
- Compact design
- Precise temperature control
- Reliable solid-state operation
- Low noise
- RoHS-compliant

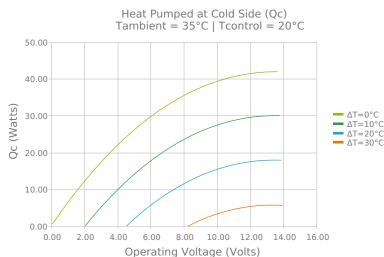
Applications

- 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

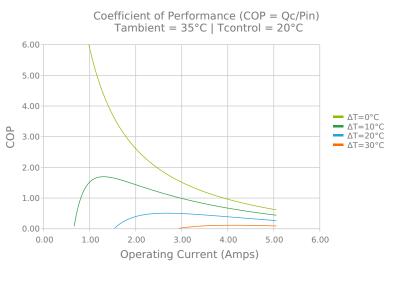


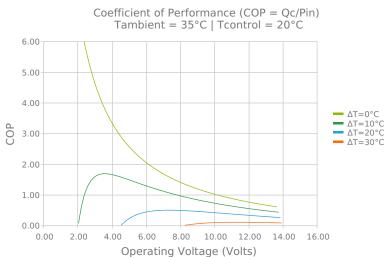
ELECTRICAL AND THERMAL PERFORMANCE

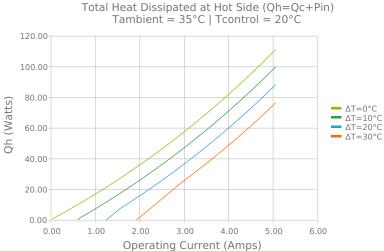


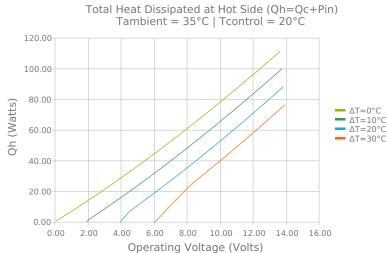


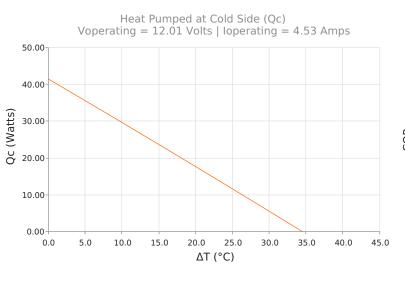


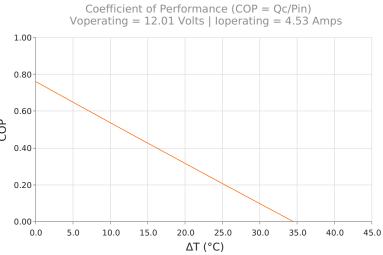














SPECIFICATIONS

Operating Temperature Range

Supply Voltage

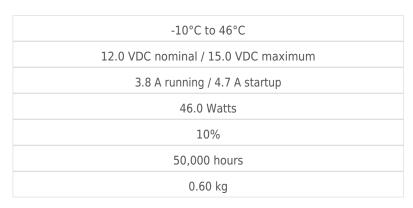
Current Draw

Power Supply

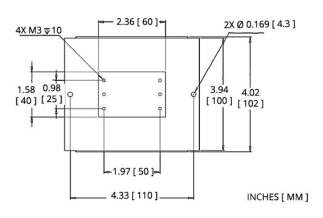
Performance Tolerance

Fan MTBF

Weight



MOUNTING HOLE LOCATION



WIRING SCHEMATIC

ELECTRICAL CONNECTIONS:

TEM+: Orange TEM -: White FAN+: Purple FAN -: Blue

Warning: Single supply not applicable in heating mode or with PWM-regulation.

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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