

PowerCool Series Thermoelectric Cooler Assembly

The DA-034-24-02 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 34 Watts when $\Delta T=0$ and a maximum ΔT of 41 °C at Qc = 0.



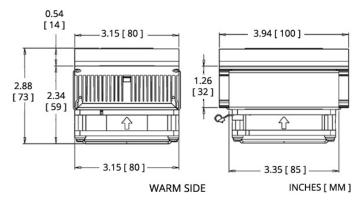
Features

- 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

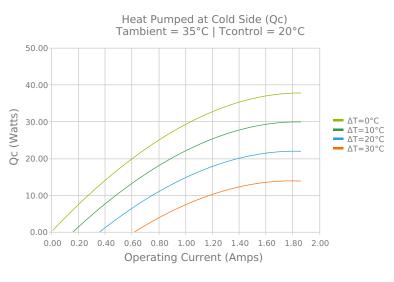
COLD SIDE

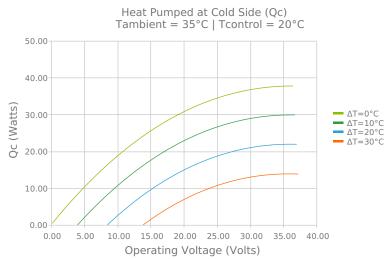




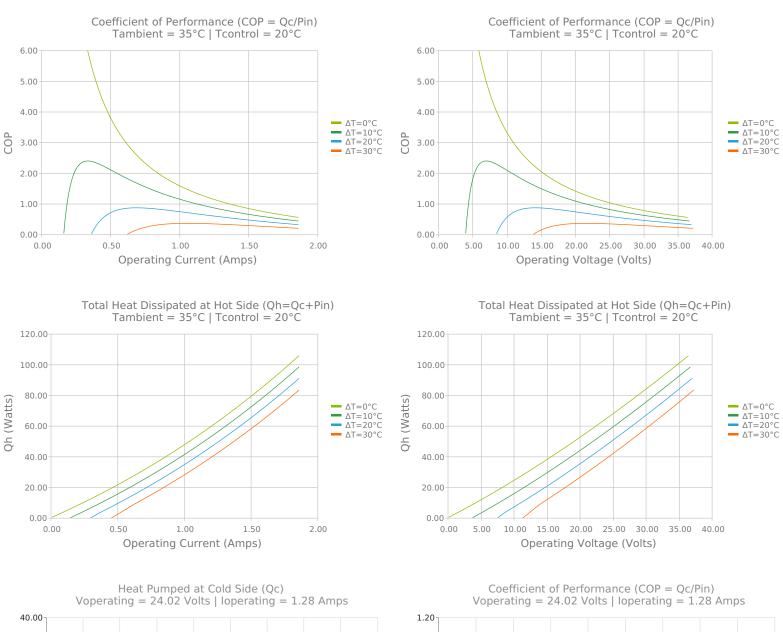


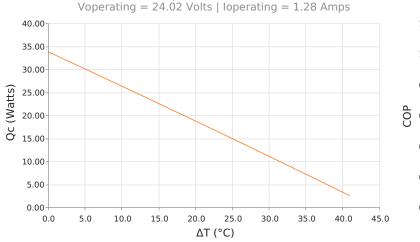
ELECTRICAL AND THERMAL PERFORMANCE

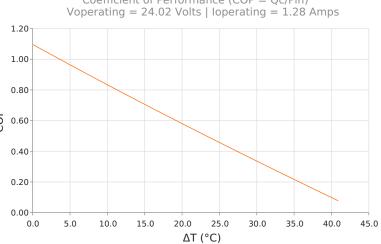














SPECIFICATIONS

Heat Transfer Mechanism, Cold Side

Heat Transfer Mechanism, Hot Side

Operating Temperature Range

Supply Voltage

Current Draw

Power Supply

Performance Tolerance

Hi-Pot Testing

Fan MTBF

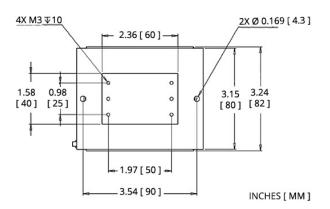
Weight

Panel Mounting

Direct - Conduction
Air - Forced Convection
-10°C to 46°C
24.0 VDC nominal / 27.0 VDC maximum
1.9 A running / 2.6 A startup
46.0 Watts
10%
No Testing
50,000 hours
0.45 kg
Flush Mount



MOUNTING HOLE LOCATION



WIRING SCHEMATIC

ELECTRICAL CONNECTIONS:

TEM+: Pink TEM -: Green FAN+: Purple FAN -: Blue

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

NOTES

¹For indoor use only

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