PowerCool Series Thermoelectric Cooler Assembly

The DA-044-24-02 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 44 Watts when $\Delta T = 0$ and a maximum ΔT of 41 °C at Qc = 0.

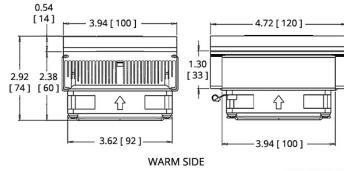
Features

- 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

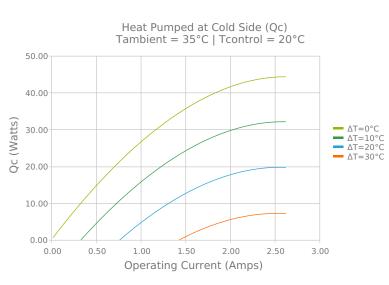


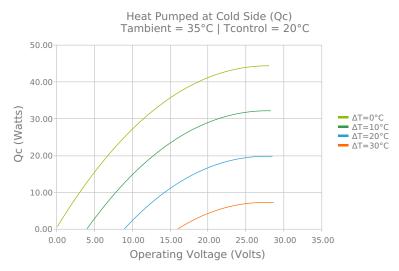
INCHES [MM]

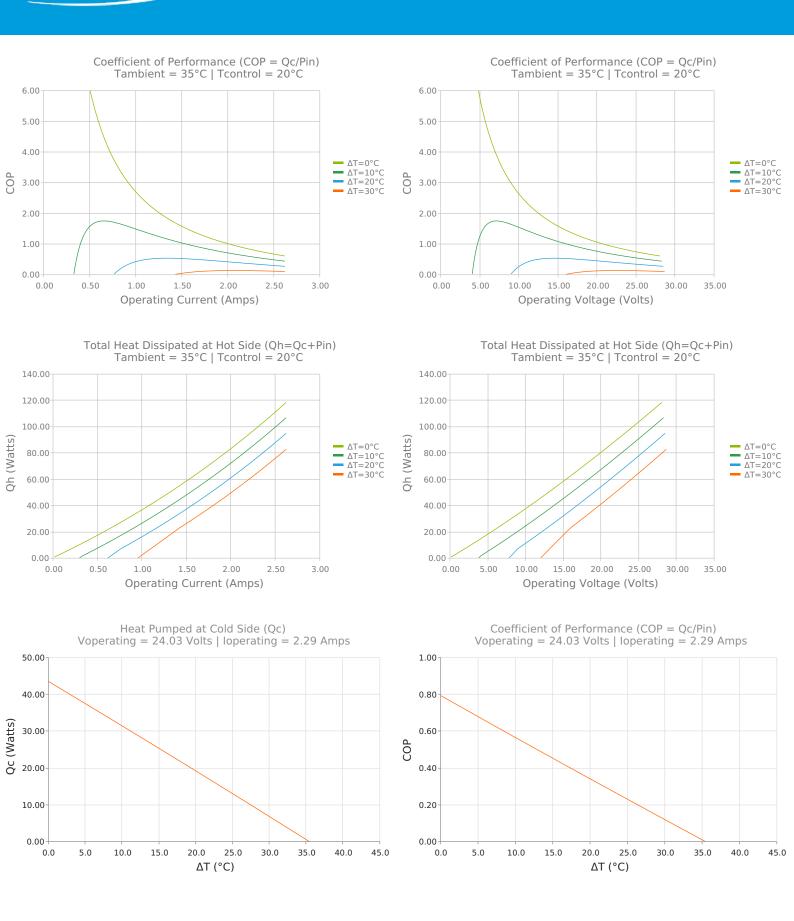




ELECTRICAL AND THERMAL PERFORMANCE





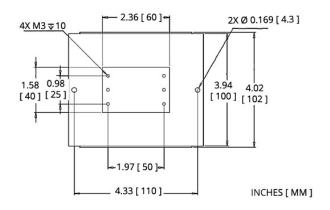


SPECIFICATIONS

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

-10°C to 44°C
24.0 VDC nominal / 30.0 VDC maximum
2.2 A running / 2.8 A startup
46.0 Watts
10%
50,000 hours
0.60 kg

MOUNTING HOLE LOCATION



WIRING SCHEMATIC	

ГЕМ	Wire Color	Crimp Ferrule Color
EM+	Red	White
FEM -	Black	White
AN+	Red	Blue
AN -	Black	Blue

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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