

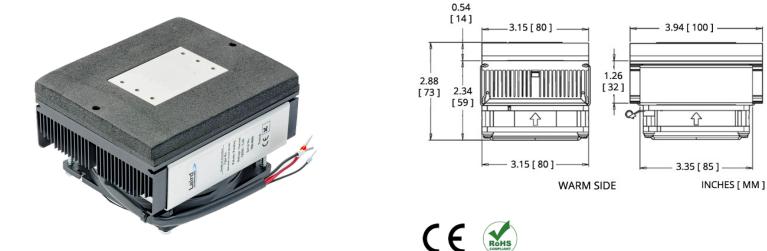
# PowerCool Series DA-034-24-02 MFG Part Number: DA-034-24-02-00-00

#### PowerCool Series Thermoelectric Cooler Assembly

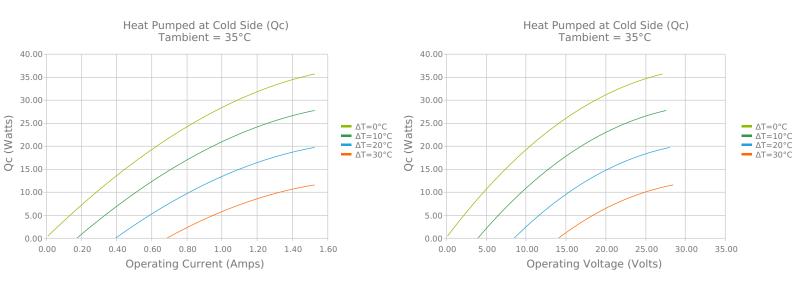
The DA-034-24-02 is a Direct-to-Air Thermoelectric Cooler Assembly that uses impingement flow to transfer heat. It offers dependable, compact performance by cooling objects via conduction. Heat is absorbed through a cold plate and dissipated thru a high density heat exchanger equipped with an air ducted shroud and brand name fan. It has a maximum Qc of 34 Watts when  $\Delta T = 0$  and a maximum  $\Delta T$  of 41 °C at Qc = 0.

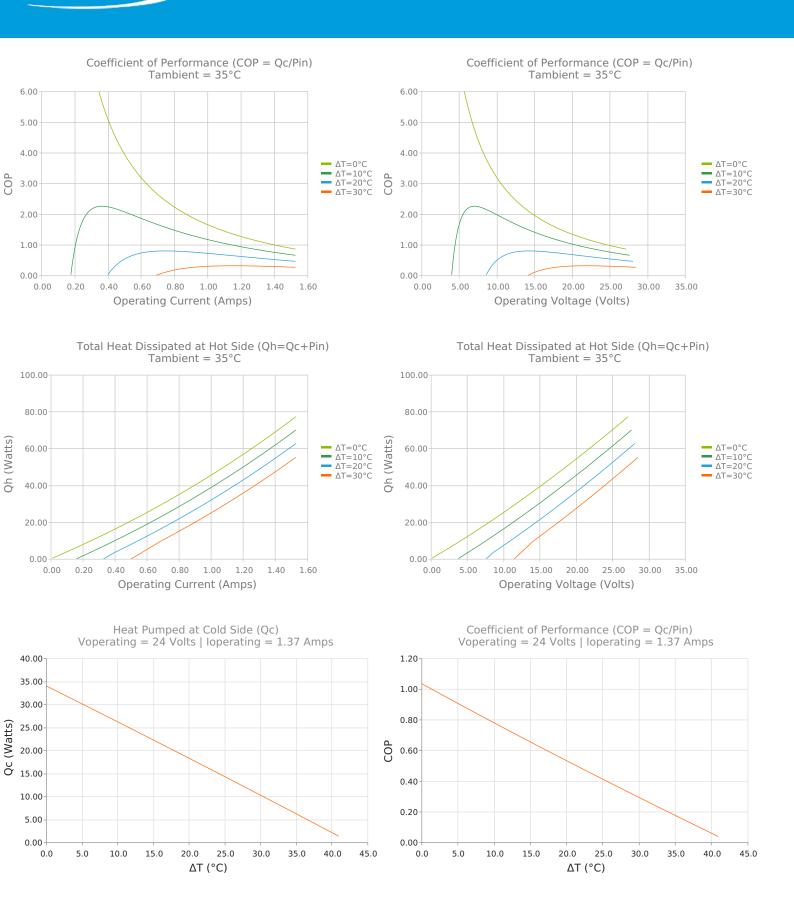
- Features
- Compact design
- Precise temperature control
- Reliable solid-state operation
- Low noiseRoHS-compliant
- Applications
- Medical Diagnostic and Analytical Instrumentation
- Thermoelectric Coolers and Assemblies for Medical Applications
- Liquid Cooling Options for PET and SPECT Scanners
- Cooling for Centrifuges
- High-Performance Liquid Chromatography (HPLC)
- Heating and Cooling for Liquid Chromatography Systems

COLD SIDE



## **ELECTRICAL AND THERMAL PERFORMANCE**

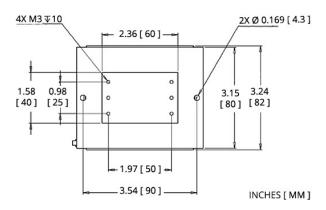




## **SPECIFICATIONS**

Heat Transfer Mechanism, Cold Side	Direct - Conduction
Heat Transfer Mechanism, Hot Side	Air - Forced Convection
Operating Temperature Range	-10°C to 46°C
Supply Voltage	24.0 VDC nominal / 27.0 VDC maximum
Current Draw	1.9 A running / 2.6 A startup
Power Supply	46.0 Watts
Performance Tolerance	10%
Hi-Pot Testing	No Testing
Fan MTBF	50000 hours
Weight	0.45 kg
Panel Mounting	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.
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### NOTES

#### <sup>1</sup>For indoor use only

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