

# 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.

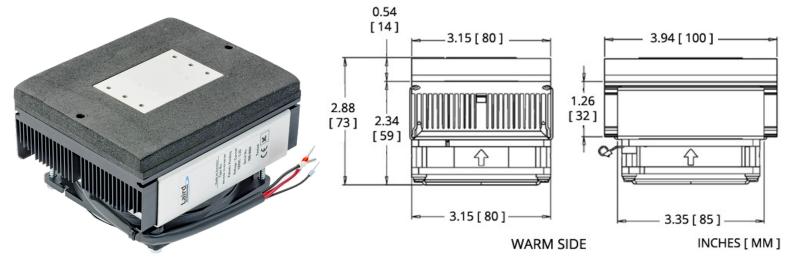
#### Features

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

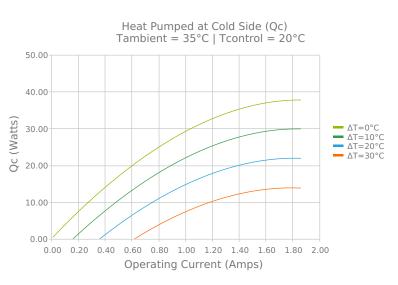
#### **Applications**

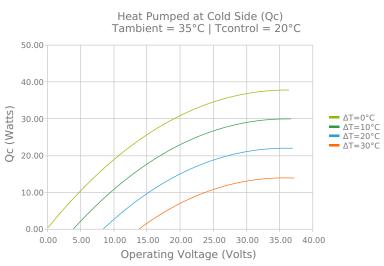
- Medical Diagnostic and Analytical Instrumentation
- Thermoelectric Coolers and Assemblies for Medical Applications
- Liquid Cooling Options for PET and SPECT Scanners
- Cooling for Centrifuges
- High-Performance Liquid Chromatography (HPLC)
- Heating and Cooling for Liquid Chromatography Systems

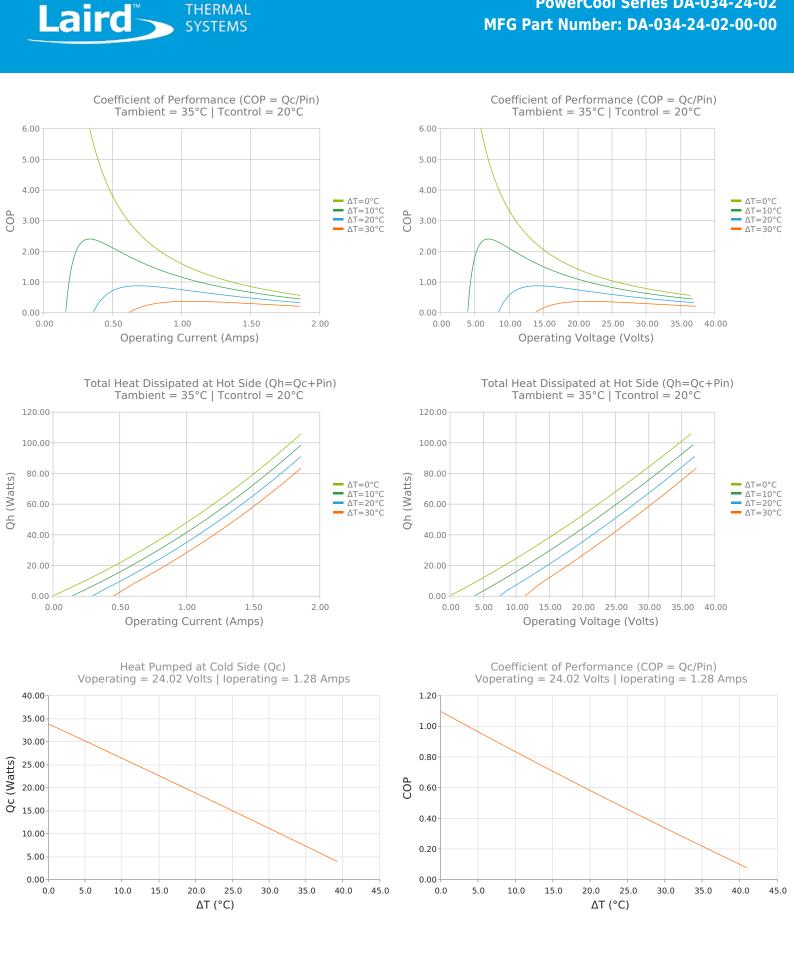
### COLD SIDE



## **ELECTRICAL AND THERMAL PERFORMANCE**







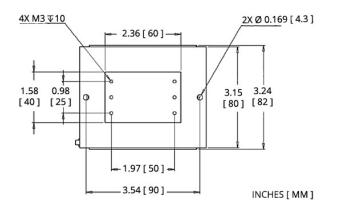
## **SPECIFICATIONS**

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

-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%
50,000 hours
0.45 kg

### **MOUNTING HOLE LOCATION**

Weight



### 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**

<sup>1</sup> For indoor use only
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Date: 06/04/2021