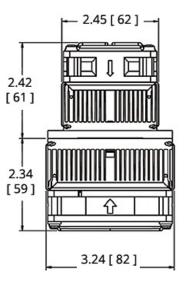
#### PowerCool Series Thermoelectric Cooler Assembly

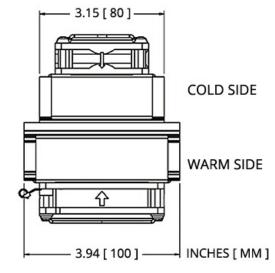
The AA-024-24-22 is an Air-to-Air Thermoelectric Assembly (TEA) that uses impingement flow to transfer heat. It offers dependable, compact performance by cooling objects via convection. Heat is absorbed and dissipated through high density heat exchangers equipped with air ducted shrouds and brand name fans. The heat pumping action is created by thermoelectric modules, which are custom designed to achieve a high coefficient of performance (COP). It has a maximum Qc of 23.2 Watts when  $\Delta T = 0$  and a maximum  $\Delta T$  of 39 °C at Qc = 0.

#### Features

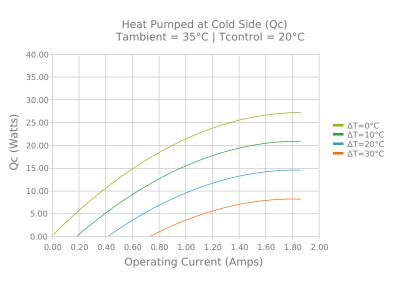
- reatures
- Compact designPrecise temperature control
- Reliable solid-state operation
- Low noise
- RoHS-compliant
- Applications
- Medical Diagnostic and Analytical Instrumentation
- Thermoelectric Coolers and Assemblies for Medical Applications
- Liquid Cooling Options for PET and SPECT Scanners
- Cooling for Centrifuges
- High-Performance Liquid Chromatography (HPLC)

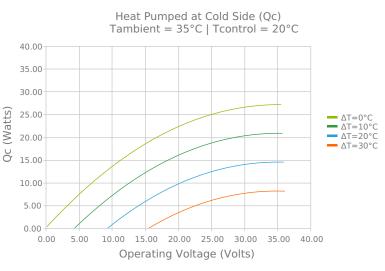


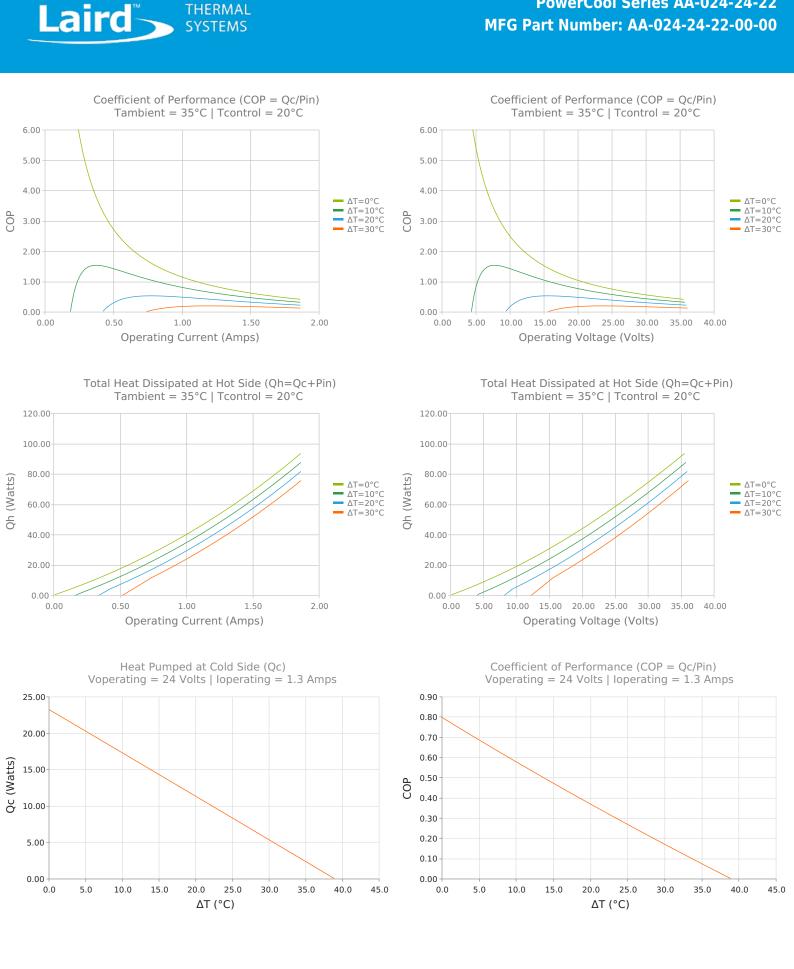




# **ELECTRICAL AND THERMAL PERFORMANCE**



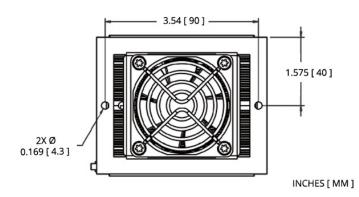




## **SPECIFICATIONS**

| Operating Temperature Range | -10 °C to 54°C                      |
|-----------------------------|-------------------------------------|
| Supply Voltage              | 24.0 VDC nominal / 30.0 VDC maximum |
| Current Draw                | 1.5 A running / 1.5 A startup       |
| Power Supply                | 36.0 Watts                          |
| Performance Tolerance       | 10%                                 |
| Fan MTBF                    | 50,000 hours                        |
| Weight                      | 0.60 kg                             |

### **MOUNTING HOLE LOCATION**



| -10 °C to 54°C                      |  |
|-------------------------------------|--|
| 24.0 VDC nominal / 30.0 VDC maximum |  |
| 1.5 A running / 1.5 A startup       |  |
| 36.0 Watts                          |  |
| 10%                                 |  |
| 50,000 hours                        |  |
| 0.60 kg                             |  |
|                                     |  |

### WIRING SCHEMATIC

regulation.

ELECTRICAL CONNECTIONS: TEM+ : Pink TEM - : Green FAN+ : Purple FAN - : Blue Warning: Single supply not applicable in heating mode or with PWM-

# NOTES

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

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Date: 04/24/2020