

# DA PowerCool Series, DA-024-24-02

## Thermoelectric Assembly



### POWERCOOL SERIES DIRECT-TO-AIR THERMOELECTRIC ASSEMBLY

The DA PowerCool Series is a Direct-to-Air thermoelectric assembly (TEA) 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 through a high density heat exchanger equipped with an air ducted shroud and brand name fan. The thermoelectric modules are custom designed to achieve a high coefficient of performance (COP) to minimize power consumption. This product series is available in a wide range of cooling capacities and voltages. Custom configurations and moisture protection options are available, however, MOQ applies.

#### FEATURES

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

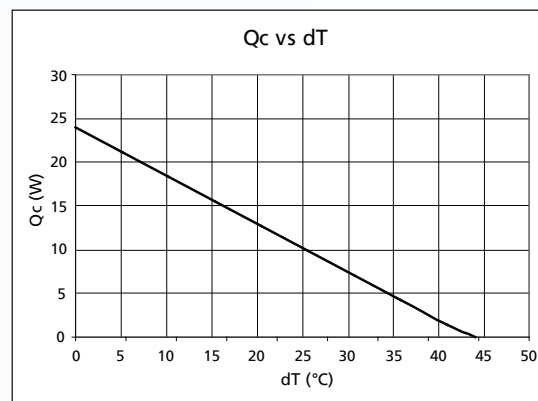
#### APPLICATIONS

- Analytical instrumentation
- Medical diagnostics
- Photonics laser systems
- Industrial instrumentation
- Food and beverage cooling

#### Specifications

Cooling Power $Q_{cmax}$ (W)	24
Running Current (A)	2.0
Startup Current (A)	2.8
Nominal Voltage (V)	24
Max Voltage (V)	30
Power Input (W)	48
Operating Temperature (°C)	-10 to 48
Weight (kg)	0.3
MTBF (fans – hrs)	50,000
Performance Tolerance	±10%

#### PERFORMANCE CURVE



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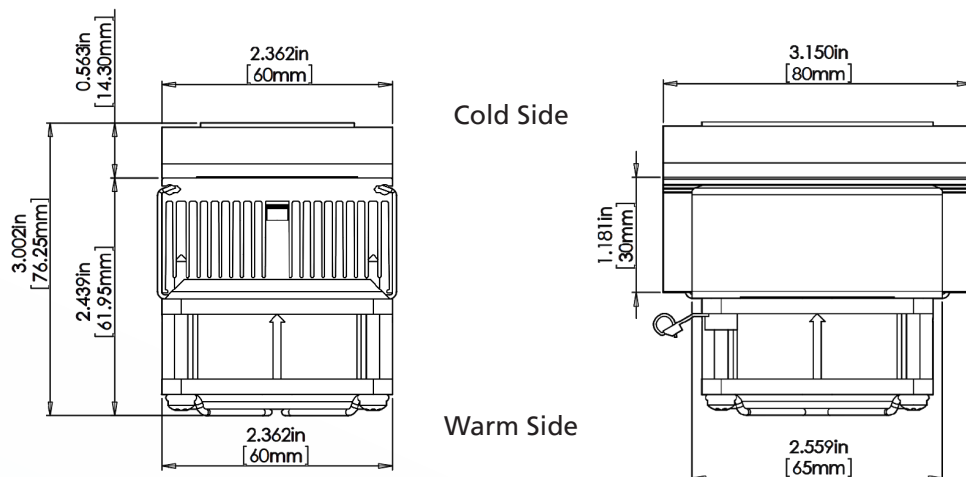
CLV-customerservice@lairdtech.com

[www.lairdtech.com/thermal](http://www.lairdtech.com/thermal)

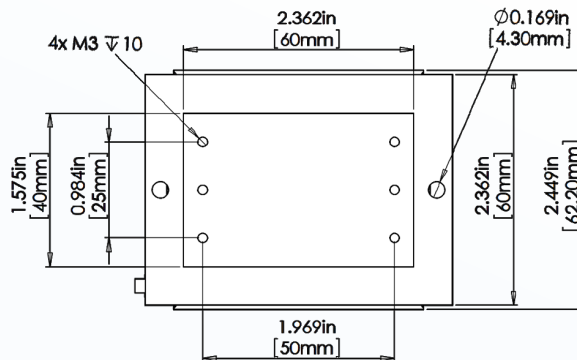
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### ISOMETRIC DRAWINGS



### MOUNTING HOLE LOCATION



### WIRING SCHEMATIC

#### Electrical connections

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

### NOTES

For indoor use only.  
Thermally conductive grease enclosed.

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