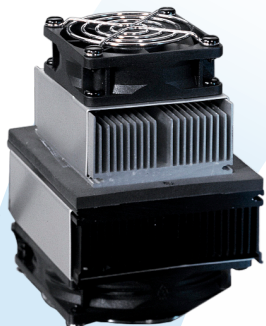


# AA PowerCool Series, AA-024-12-22

## Thermoelectric Assembly



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

The AA PowerCool Series 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 thru high density heat exchangers equipped with air ducted shrouds and brand name fans. 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

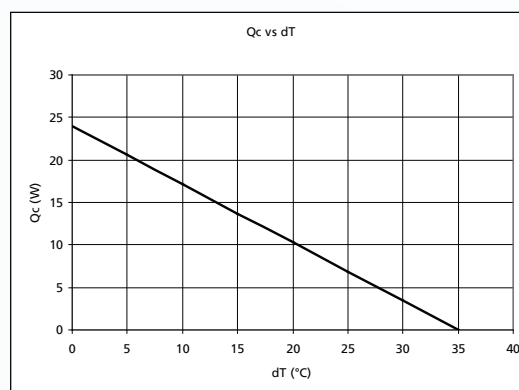
#### APPLICATIONS

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

#### Specifications

Cooling Power Q <sub>cmax</sub> (W)	24
Running Current (A)	2.4
Startup Current (A)	2.7
Nominal Voltage (V)	12
Max Voltage (V)	15
Power Input (W)	29
Operating Temperature (°C)	-10 to 51
Weight (kg)	0.6
MTBF (fans – hrs)	40,000
Performance Tolerance	±10%

#### PERFORMANCE CURVE



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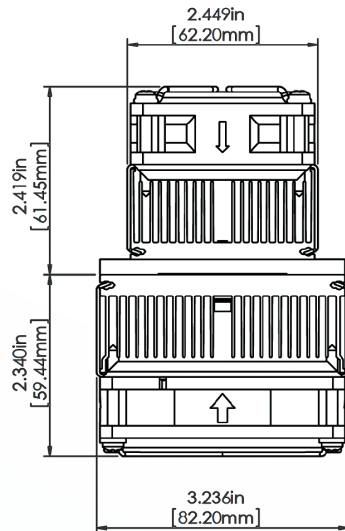
CLV-customerservice@lairdtech.com

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

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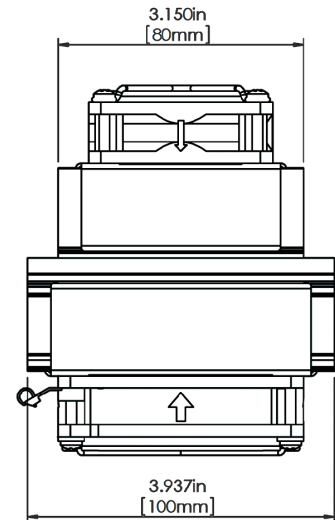
## Thermoelectric Assembly

### ISOMETRIC DRAWINGS

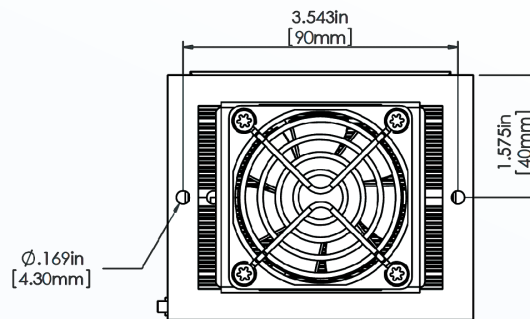


Cold Side

Warm Side



### MOUNTING HOLE LOCATION



### WIRING SCHEMATIC

#### Electrical connections

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

### NOTES

For indoor use only.

THR-DS-AA-024-12-22 0210

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Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd  
Minhang District, Shanghai , China

➤ Sales :

Direct     +86 (21) 6401-6692  
  
Email        amall@ameya360.com  
  
QQ            800077892  
  
Skype        ameyasales1 ameyasales2

➤ Customer Service :

Email        service@ameya360.com

➤ Partnership :

Tel            +86 (21) 64016692-8333  
  
Email        mkt@ameya360.com