

# LA PowerCool Series, LA-024-12-02

## Thermoelectric Assembly



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

The LA PowerCool Series is a Liquid-to-Air thermoelectric assembly (TEA) that offers dependable, compact performance by cooling objects via liquid to transfer heat. Heat is absorbed through a liquid heat exchanger and dissipated thru a high density heat sink 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 are available, however, MOQ applies.

### FEATURES

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

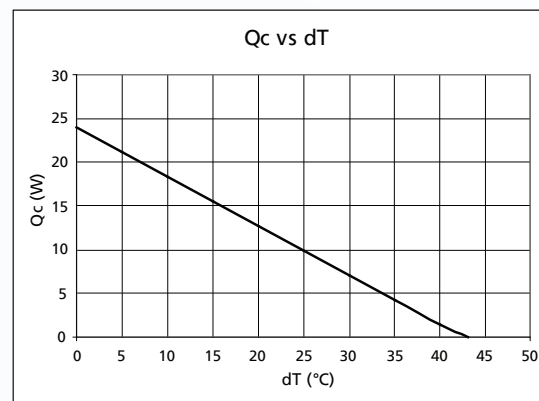
### APPLICATIONS

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

### Specifications

Cooling Power Qcmax (W)	24
Running Current (A)	2.4
Startup Current (A)	3.2
Nominal Voltage (V)	12
Max Voltage (V)	15
Power Input (W)	29
Operating Temperature (°C)	-10 to 48
Weight (kg)	0.44
MTBF (fans – hrs)	50,000
Performance Tolerance	±10%

### PERFORMANCE CURVE



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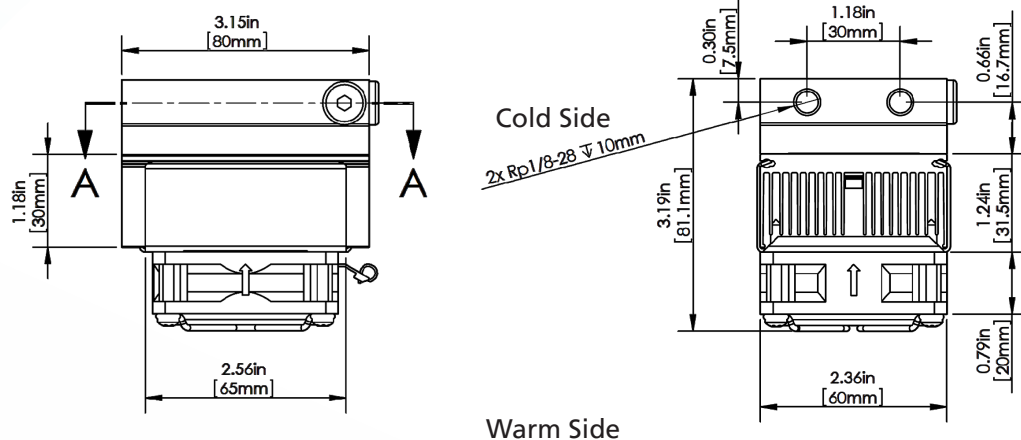
CLV-customerservice@lairdtech.com

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

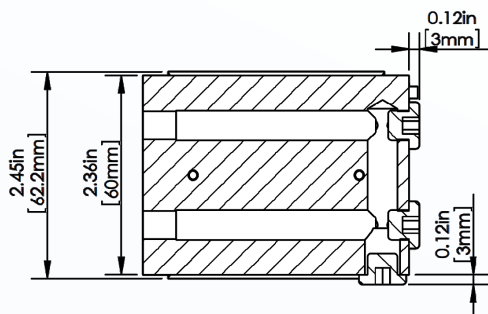
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### ISOMETRIC DRAWINGS



### MOUNTING HOLE LOCATION



### WIRING SCHEMATIC

#### Electrical connections

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

### NOTES

For indoor use only.  
Turbulators mounted in liquid heat sink channels.

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