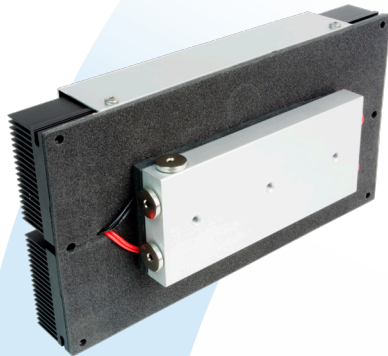


LA PowerCool Series, LA-045-12-02

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

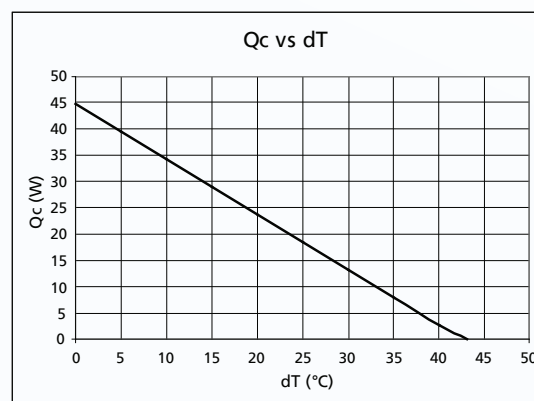
APPLICATIONS

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

Specifications

Cooling Power Qcmax (W)	43
Running Current (A)	4.1
Startup Current (A)	5.1
Nominal Voltage (V)	12
Max Voltage (V)	15
Power Input (W)	49
Operating Temperature (°C)	-10 to 52
Weight (kg)	1.2
MTBF (fans – hrs)	50,000
Performance Tolerance	±10%

PERFORMANCE CURVE



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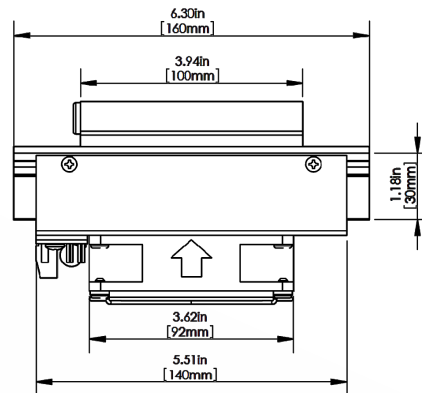
CLV-customerservice@lairdtech.com

www.lairdtech.com/thermal

LA PowerCool Series, LA-045-12-02

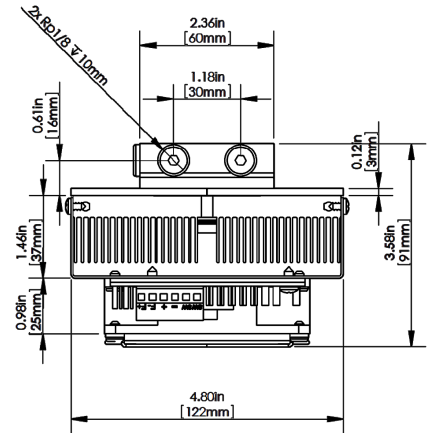
Thermoelectric Assembly

ISOMETRIC DRAWINGS

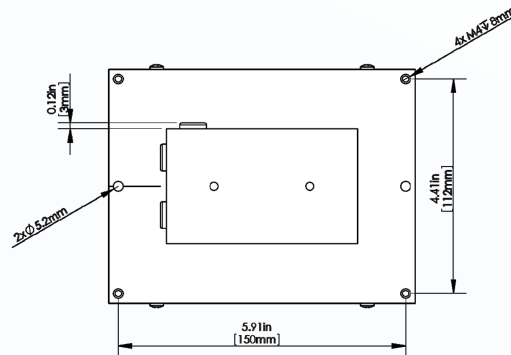


Cold Side

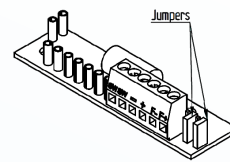
Warm Side



MOUNTING HOLE LOCATION



WIRING SCHEMATIC



Electrical connections	
"+":	+ TEM
"-":	- TEM
"F+":	+ Fan(s)
"F-":	- Fan(s)

To use single supply:
Lift the jumpers and rotate 90° to short-cut the pin pairs.
Connect the unit to "+" & "-".

Warning: Single supply not applicable in heating mode or with PWM-regulation.

NOTES

For indoor use only.

Overheating Thermostat: 75°C ± 5°C on hot side heat sink surface.

THR-DS-LA-045-12-02 0710

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