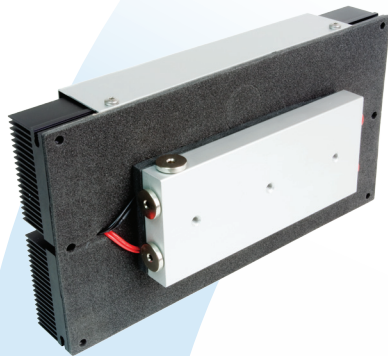


LA PowerCool Series, LA-045-24-02

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

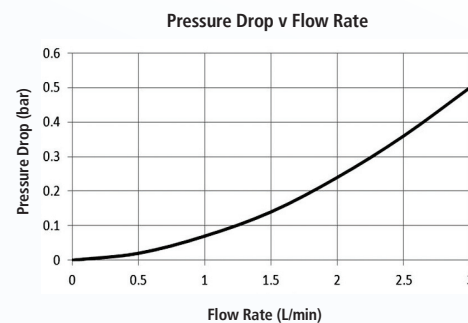
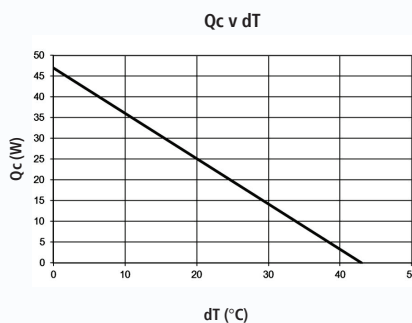
APPLICATIONS

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

Specifications

Cooling Power Q _c max (W)	47
Running Current (A)	2.8
Startup Current (A)	3.2
Nominal Voltage (V)	24
Max Voltage (V)	30
Power Input (W)	67
Operating Temperature (°C)	-10 to 48
Weight (kg)	1.3
MTBF (fans – hrs)	50,000
Performance Tolerance	±10%

PERFORMANCE CURVE



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Asia: +86.755.2714.1166

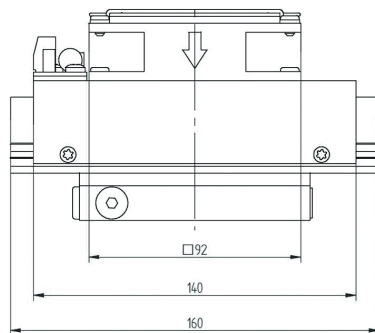
CLV-customerservice@lairdtech.com

www.lairdtech.com/thermal

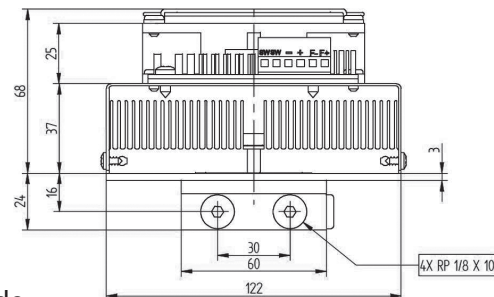
LA PowerCool Series, LA-045-24-02

Thermoelectric Assembly

ISOMETRIC DRAWINGS

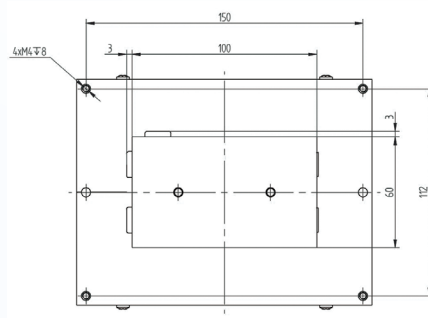


Cold Side

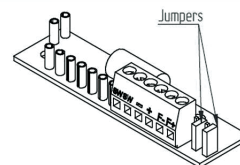


Warm Side

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.

2x L-PNIPP-6-1/8 Turbulators included.

All dimensions in mm.

THR-DS-LA-045-24-02 0212

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