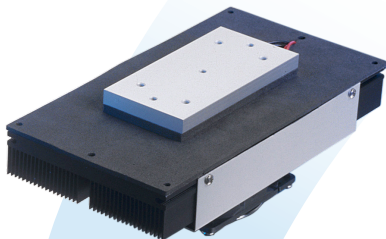


DA PowerCool Series, DA-160-24-02 Thermoelectric Assembly



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

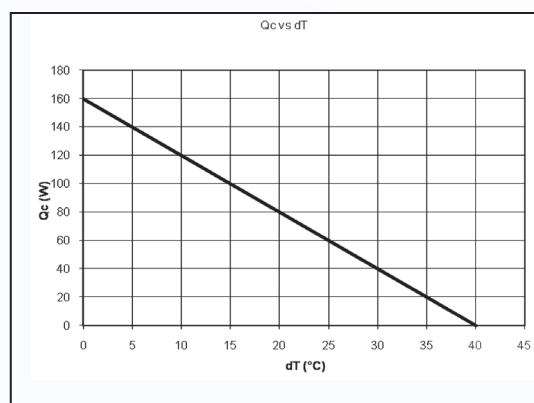
APPLICATIONS

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

Specifications

Cooling Power Q_{cmax} (W)	160
Running Current (A)	7.4
Startup Current (A)	9.0
Nominal Voltage (V)	24
Max Voltage (V)	30
Power Input (W)	178
Operating Temperature (°C)	-10 to 46
Weight (kg)	3.5
MTBF (fans – hrs)	50,000
Performance Tolerance	±10%

PERFORMANCE CURVE



global solutions: local support™

Americas: +1.888.246.9050

Europe: +46.31.704.67.57

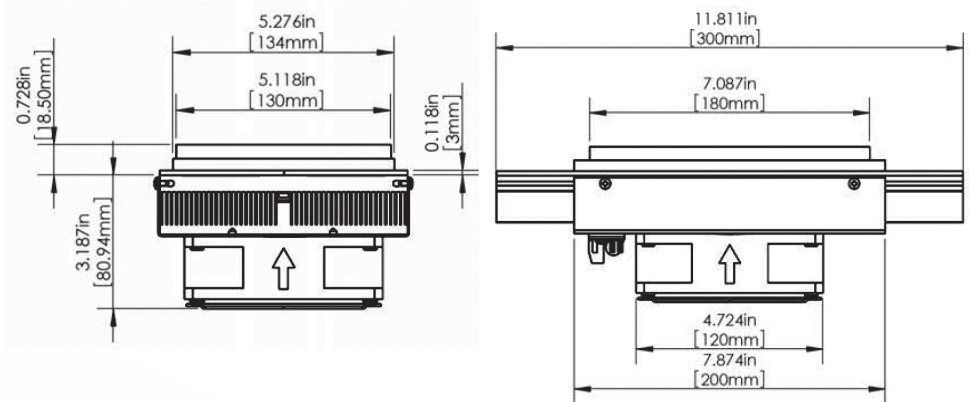
Asia: +86.755.2714.1166

CLV-customerservice@lairdtech.com

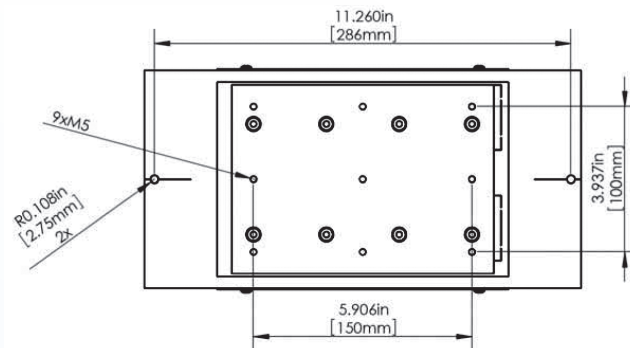
www.lairdtech.com/thermal

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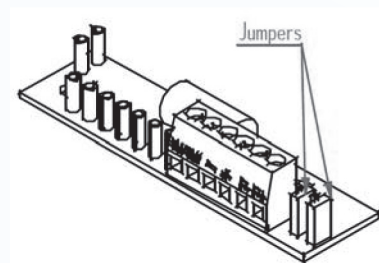
ISOMETRIC DRAWINGS



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
- Thermally Conductive Grease enclosed
- Overheating Thermostat: 75°C ± 5°C on hot side heat sink surface

THR-DS-DA-160-24-02 0510

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