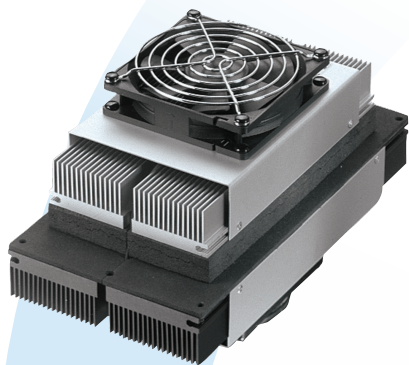


AA Cascade Series, AAC-050-24-22

Thermoelectric Assembly



CASCADE SERIES AIR-TO-AIR THERMOELECTRIC ASSEMBLY

The AA Cascade Series is an Air-to-Air thermoelectric assembly (TEA) that 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 multistage cascades to achieve a high temperature differential, which allows this series to reach colder temperatures than standard AA product offerings. 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

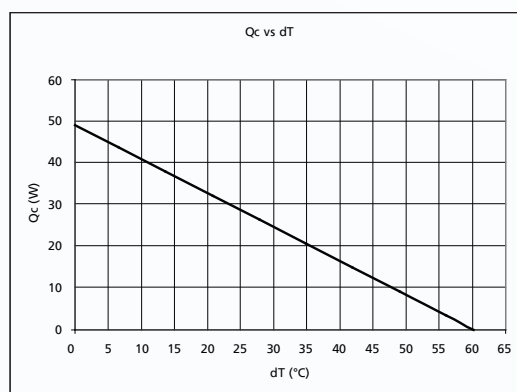
APPLICATIONS

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

Specifications

Cooling Power Q _{cmax} (W)	49
Running Current (A)	4.7
Startup Current (A)	5.6
Nominal Voltage (V)	24
Max Voltage (V)	30
Power Input (W)	113
Operating Temperature (°C)	-10 to 47
Weight (kg)	2.7
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

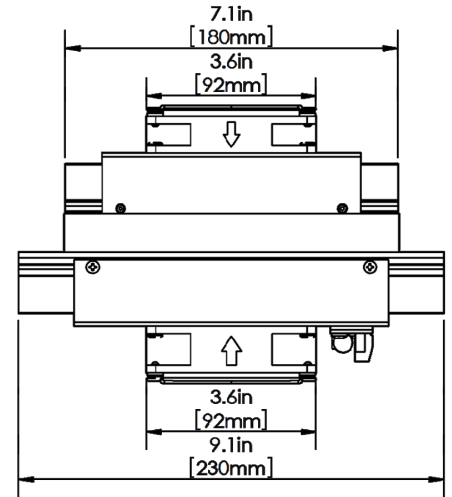
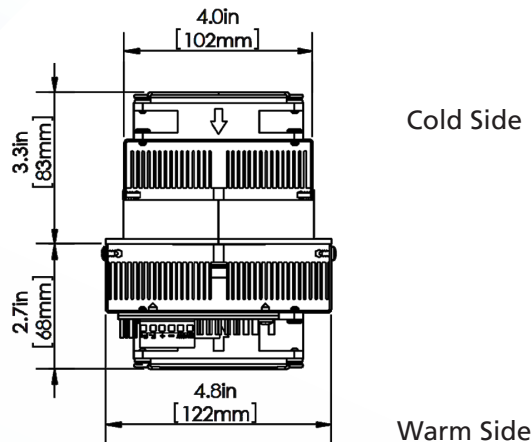
CLV-customerservice@lairdtech.com

www.lairdtech.com/thermal

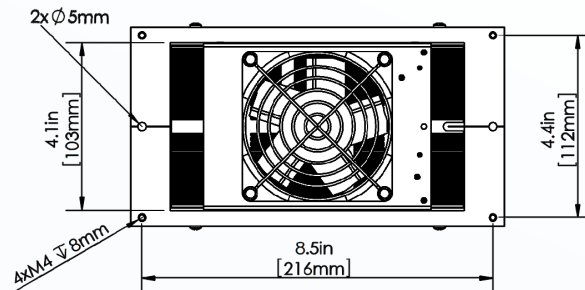
AA Cascade Series, AAC-050-24-22

Thermoelectric Assembly

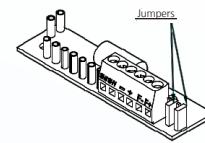
ISOMETRIC DRAWINGS



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 no applicable in heating mode or with PWM-regulation.

NOTES

For indoor use only.

Overheating thermostat: 75°C ± 5°C on heat sink surface.

THR-DS-AAC-050-24-22 0610

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