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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 thru 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

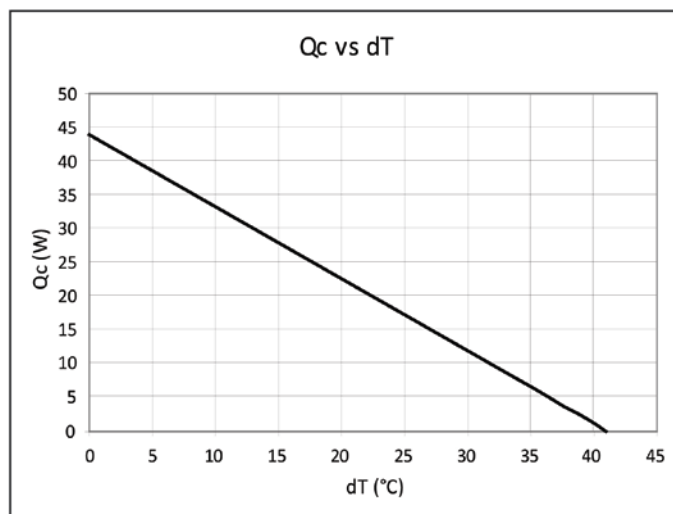
APPLICATIONS

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

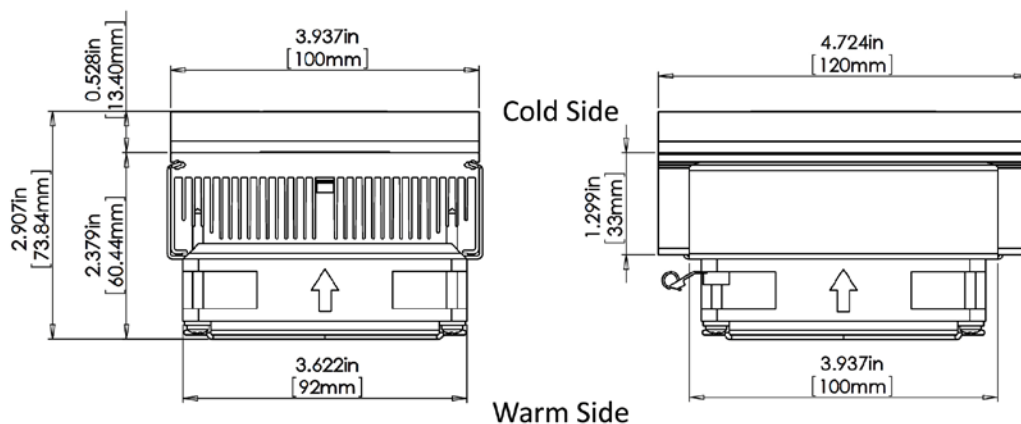
SPECIFICATIONS

Cooling Power Q_{cmax} (W)	44
Running Current (A)	2.2
Startup Current (A)	2.8
Nominal Voltage (V)	24
Max Voltage (V)	30
Power Input (W)	53
Operating Temperature (°C)	-10 to 44
Weight (kg)	0.6
MTBF (fans – hrs)	50,000
Performance Tolerance	±10%

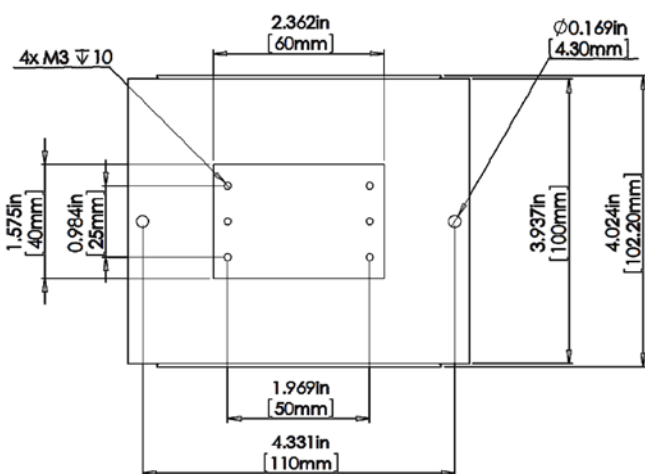
PERFORMANCE CURVE



ISOMETRIC DRAWINGS



MOUNTING HOLE LOCATION



WIRING SCHEMATIC

Electrical connections

TEM+ : Orange
 TEM- : White
 Fan+ : Purple
 Fan- : Blue

NOTES

For indoor use only
 Thermally conductive grease enclosed

LAIRD-ETS-DA-044-24-02-DATA-SHEET-100616

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