Laird TECHNOLOGIES

Innovative **Technology** for a **Connected** World

DA PowerCool Series, DA-014-12-02
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 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 RoHS

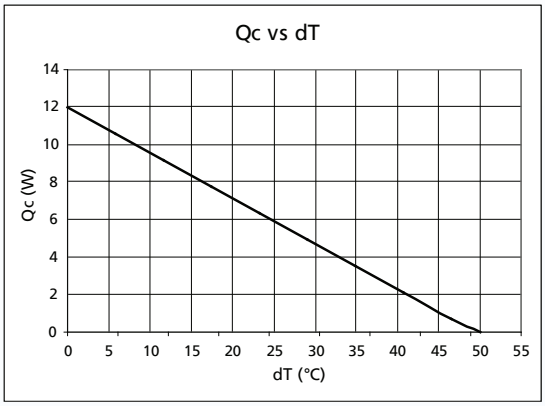
- Compact design
- Precise temperature control
- Reliable solid-state operation
- DC operation
- RoHS compliant

APPLICATIONS

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

Specifications	
Cooling Power Qcmax (W)	12
Running Current (A)	1.8
Startup Current (A)	2.3
Nominal Voltage (V)	12
Max Voltage (V)	15
Power Input (W)	22
Operating Temperature (°C)	-10 to 44
Weight (kg)	0.2
MTBF (fans – hrs)	50,000
Performance Tolerance	±10%

PERFORMANCE CURVE



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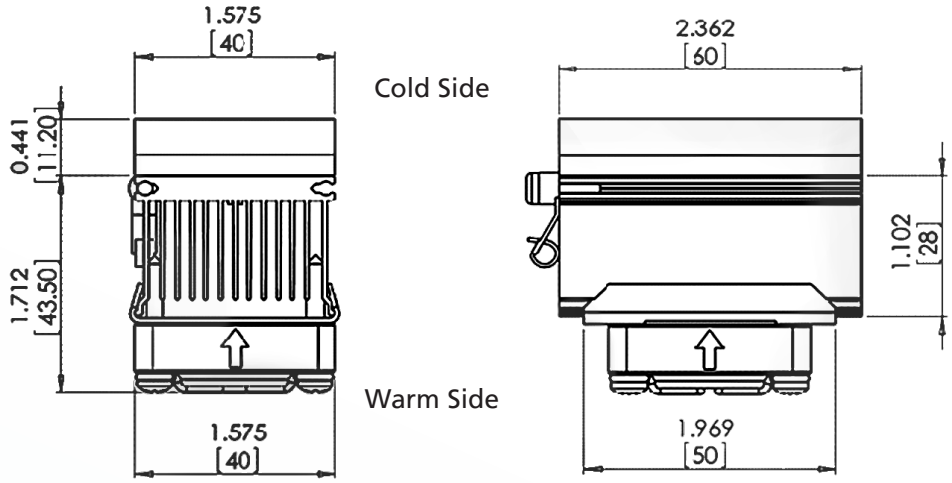
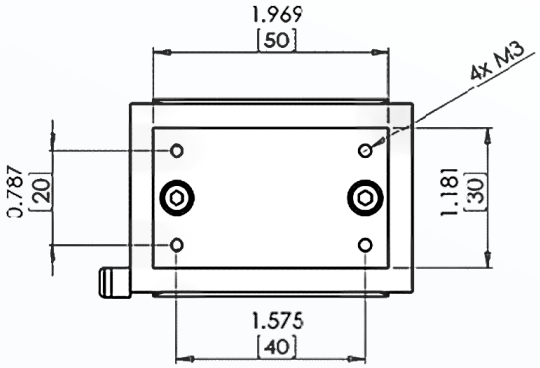
ISOMETRIC DRAWINGS



MOUNTING HOLE LOCATION



WIRING SCHEMATIC

Electrical connections

TEM+ : Purple
TEM- : Blue
Fan+ : Brown
Fan- : Grey

NOTES

For indoor use only.
Thermally conductive grease enclosed.