

DA PowerCool Series, DA-045-12-02

Thermoelectric Assembly

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



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

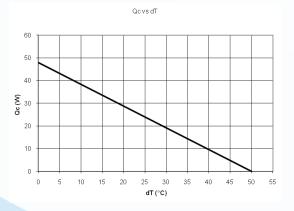
- Compact design
- Precise temperature control
- Reliable solid-state operation
- DC operation
- RoHS compliant

APPLICATIONS

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

| 48 |
|-----------|
| 6.1 |
| 7.0 |
| 12 |
| 15 |
| 73 |
| -10 to 46 |
| 1.2 |
| 50,000 |
| ±10% |
| |

PERFORMANCE CURVE



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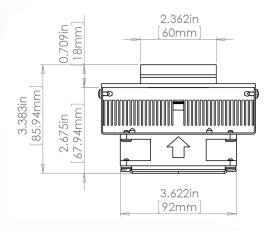


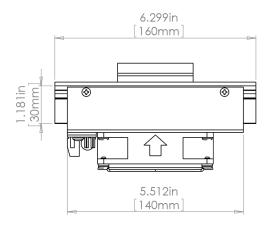
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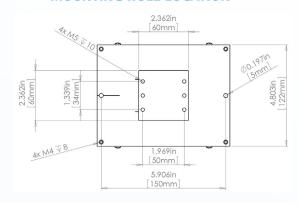
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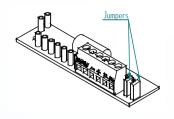
ISOMETRIC DRAWINGS





MOUNTING HOLE LOCATION





NOTES

For indoor use only.

Thermally Conductive Grease enclosed.

Overheating Thermostat: 75°C ± 5°C on hot side heat sink surface

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

Warning: Single supply not applicable in heating mode or with PWM-regulation.

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