



The AA PowerCool Series is an Air-to-Air thermoelectric assembly that uses impingement flow to transfer heat. It 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 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

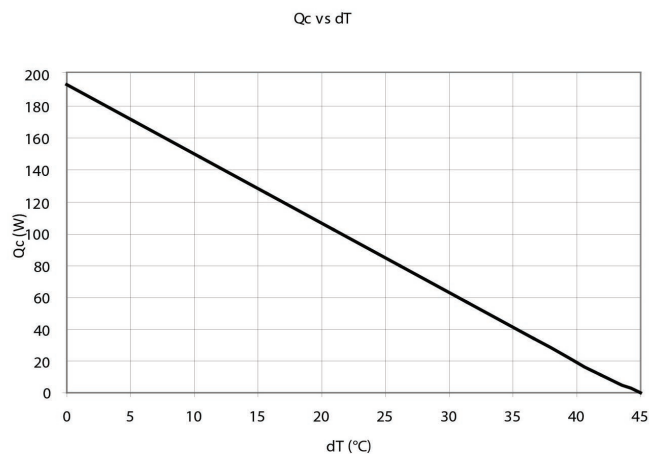
APPLICATIONS

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

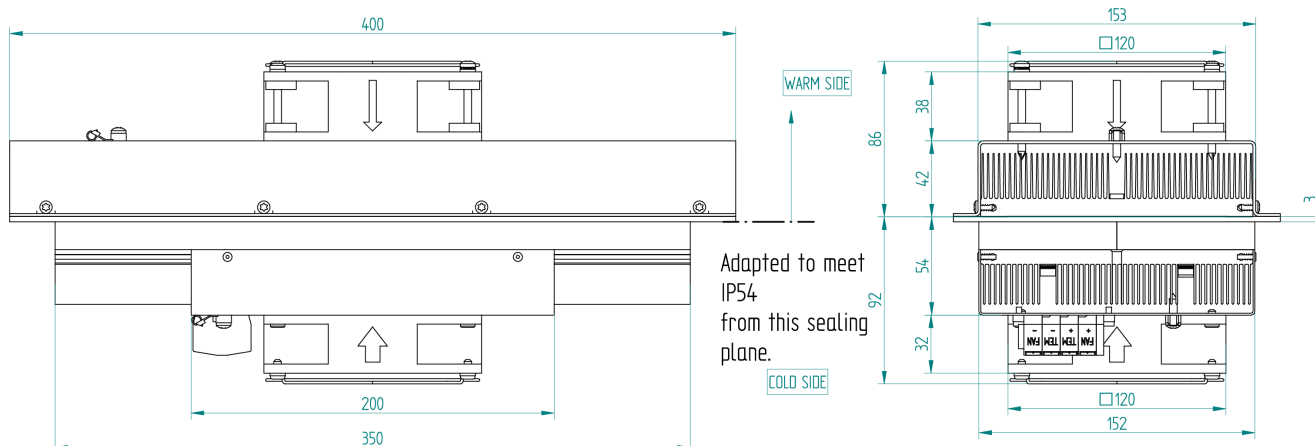
TECHNICAL SPECIFICATIONS

Cooling Power Q _c max (W)	195
Running Current (A)	10.1
Startup Current (A)	13.0
Nominal Voltage (V)	24
Max Voltage (V)	30
Power Input (W)	271
Operating Temperature (°C)	-10 to 56
Weight (kg)	6.0
MTBF (fans - hrs)	40,000
Performance Tolerance	±10%

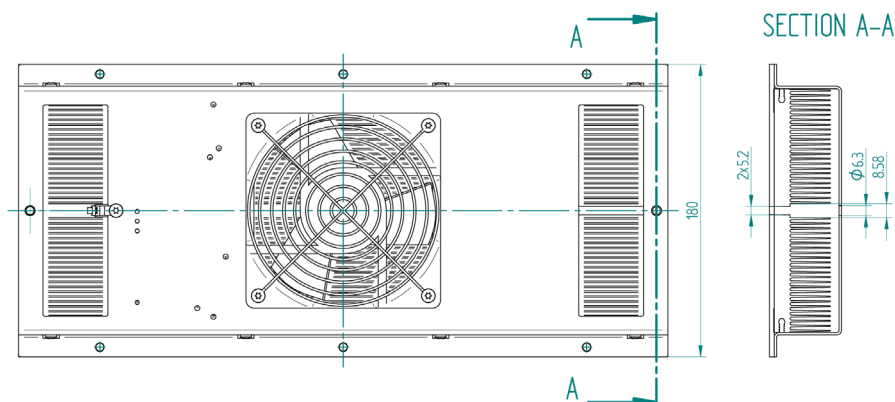
PERFORMANCE QC VS ΔT



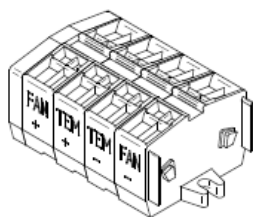
ISOMETRIC DRAWINGS



MOUNTING HOLE LOCATION



WIRING SCHEMATIC



Electrical connections

Connect:

"Fan+": + Fans

"TEM+": + TEM

"TEM-": - TEM

"FAN-": - Fans

Warning:

Do not reverse current or use PWM-regulation on fan supply.

Note

- For indoor use only

www.lairdthermal.com



Laird warrants to the original end user customer of its products that its products are free from defects in material and workmanship. Subject to conditions and limitations Laird will, at its option, either repair or replace any part of its products that prove defective because of improper workmanship or materials. This limited warranty is in force for the useful lifetime of the original end product into which the Laird product is installed. Useful lifetime of the original end product may vary but is not to exceed five (5) years from the original date of the end product purchase.

Any information furnished by Laird Inc. and its agents is believed to be accurate and reliable. All specifications are subject to change without notice. Responsibility for the use and application of Laird materials rests with the end user, since Laird and its agents cannot be aware of all potential uses. Laird makes no warranties as to the fitness, merchantability or suitability of any Laird materials or products for any specific or general uses. Laird shall not be liable for incidental or consequential damages of any kind. All Laird products are sold pursuant to the Laird Terms and Conditions of sale in effect from time to time, a copy of which will be furnished upon request.

© Copyright 2019 Laird Inc. All Rights Reserved. Laird, Laird Technologies, the Laird Logo, and other marks are trademarks or registered trademarks of Laird Inc. or an affiliate company thereof. Other product or service names may be the property of third parties. Nothing herein provides a license under any Laird or any third party intellectual property rights.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Laird Thermal Systems:](#)

[AA-200-24-24-00-10](#)