



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.

Americas: +1.919.597.7300
Europe: +46.31.420530
Asia: +86.755.2714.1166
ets.sales@lairdtech.com
www.lairdtech.com

FEATURES

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

APPLICATIONS

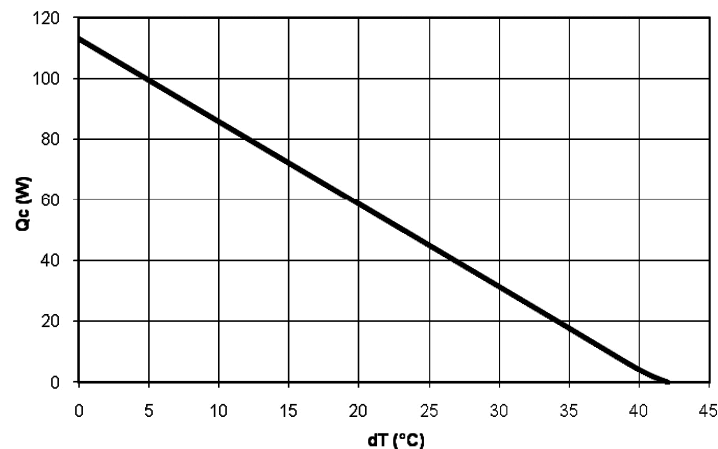
- Analytical instrumentation
- Medical diagnostics
- Photonics laser systems
- Industrial instrumentation
- Food and beverage cooling

SPECIFICATIONS

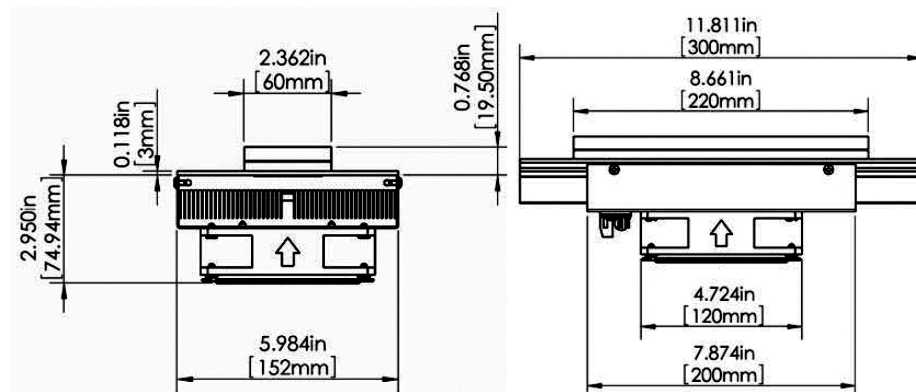
Cooling Power Q _c max (W)	113
Running Current (A)	5.8
Startup Current (A)	6.7
Nominal Voltage (V)	24
Max Voltage (V)	30
Power Input (W)	139
Operating Temperature (°C)	-10 to 47
Weight (kg)	2.9
MTBF (fans - hrs)	50,000
Performance Tolerance	±10%

PERFORMANCE CURVE

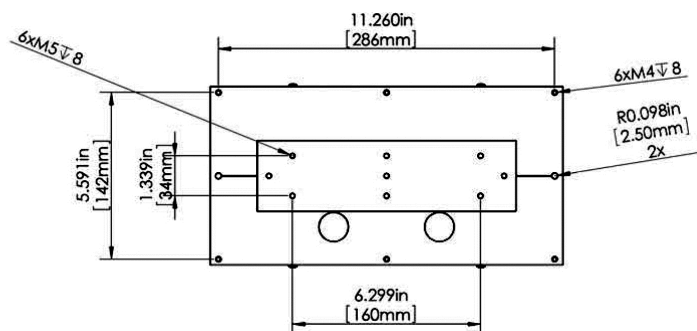
Q_c vs dT



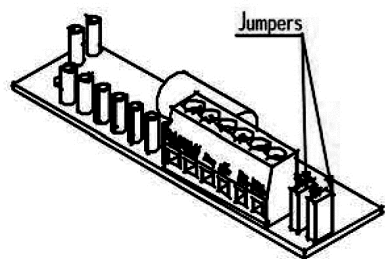
ISOMETRIC DRAWINGS



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 not applicable in heating mode or with PWM-regulation.

NOTES

For indoor use only

Overheating Thermostat: $75^{\circ}\text{C} \pm 5^{\circ}\text{C}$ on hot side heat sink surface

LAIRD-ETS-DA-115-24-02-DATA-SHEET-020617

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