

# DA Cascade Series DAC-060-24-02

## Thermoelectric Assembly



The DA Cascade Series is an Air to Air thermoelectric assembly (TEA) that 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 multistage cascades to achieve a high temperature differential, which allows this series to reach colder temperatures than standard DA product offerings. Custom configurations and moisture protection options are available, however, MOQ applies.

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#### **FEATURES**

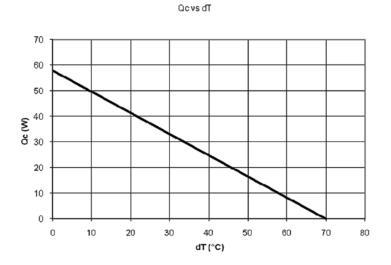
- Compact design
- Precise temperature control
- Reliable solid-state operation
- DC operation
- RoHS compliant

#### **APPLICATIONS**

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

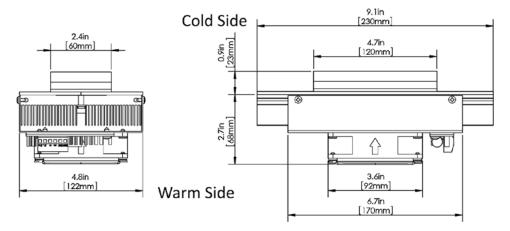
SPECIFICATIONS		
Cooling Power Qcmax (W)	58	
Running Current (A)	4.6	
Startup Current (A)	5.5	
Nominal Voltage (V)	24	
Max Voltage (V)	28	
Power Input (W)	110	
Operating Temperature (°C)	-10 to 48	
Weight (kg)	1.8	
MTBF (fans - hrs)	50,000	
Performance Tolerance	±10%	

### **PERFORMANCE CURVE**

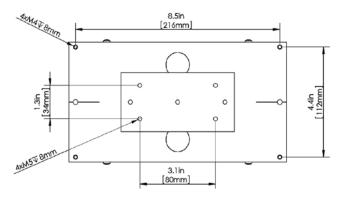




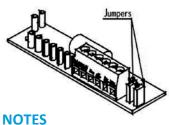
#### ISOMETRIC DRAWINGS



#### MOUNTING HOLE LOCATION



#### WIRING SCHEMATIC



For indoor use only

Thermally Conductive Grease enclosed

Electrical connections: +TEM -TEM+Fan(s) - 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 mde or with PWM-regulation.

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

#### LAIRD-ETS-DAC-060-24-02-DATA-SHEET-100616

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