

AA Tunnel Series AA-027-12-22

Thermoelectric Assembly



The AA Tunnel Series is an Air-to-Air thermoelectric assembly (TEA) that minimizes the number of airflow paths required to operate. It offers dependable, compact performance by cooling objects via convection. Heat is absorbed and dissipated through 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. Custom configurations are available, however, MOQ applies.

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FEATURES

- Tunnel Series compact design
- Precise temperature control
- Reliable solid-state operation
- DC operation
- RoHS compliant

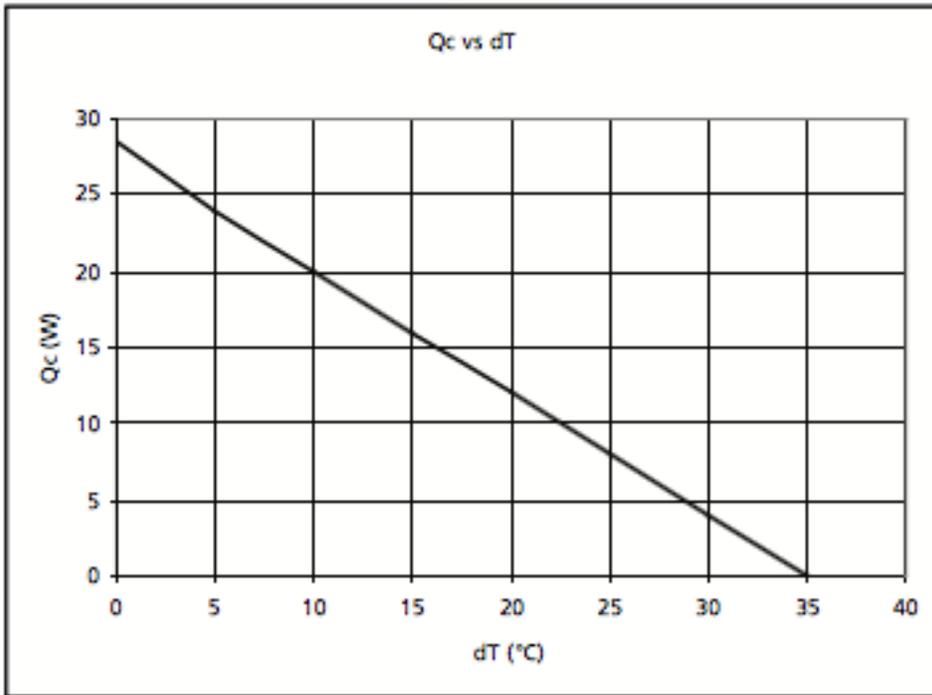
APPLICATIONS

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

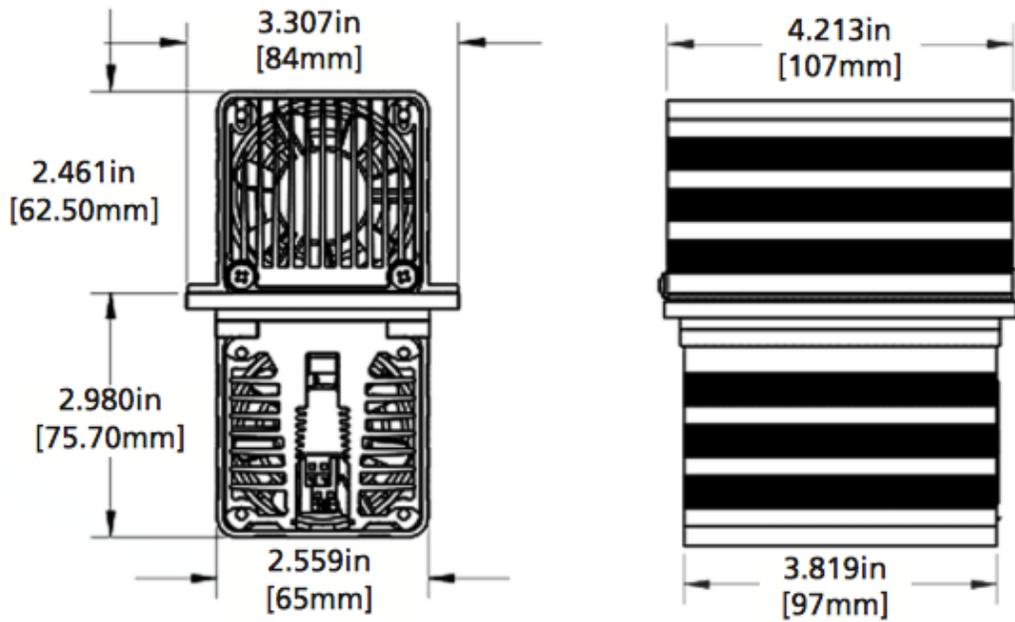
SPECIFICATIONS

| TECHNICAL | |
|----------------------------|-----------|
| Cooling Power Qcmax (W) | 28.5 |
| Running Current (A) | 3.1 |
| Startup Current (A) | 4.0 |
| Nominal Voltage (V) | 12 |
| Max Voltage (V) | 15 |
| Power Input (W) | 37.2 |
| Operating Temperature (°C) | -10 to 39 |
| Weight (kg) | 1.0 |
| MTBF (fans – hrs) | 50,000 |
| Performance Tolerance | ±10% |

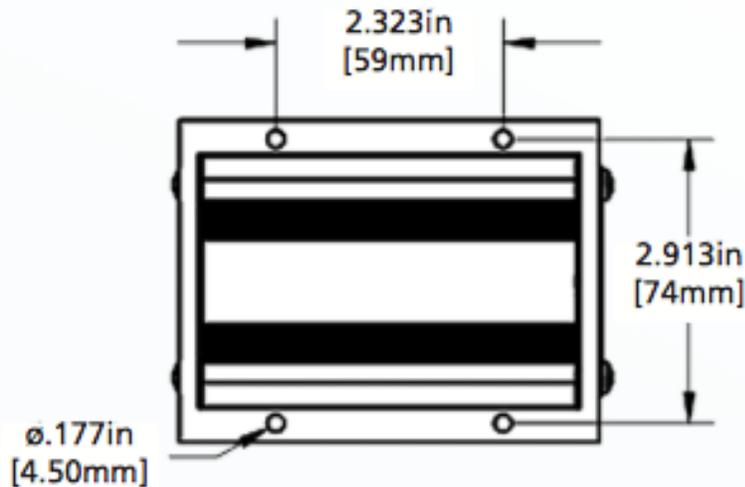
PERFORMANCE CURVE



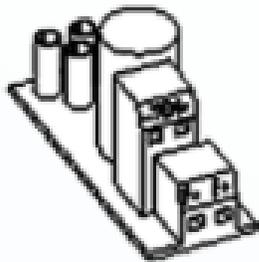
ISOMETRIC DRAWINGS



MOUNTING HOLE LOCATION



WIRING SCHEMATIC



Electrical Connections

- "TEM+": + TEM
- "TEM-": - TEM
- "F+": + Fan(s)
- "F-": - Fans(s)

NOTES

Four (4) mounting screws enclosed
 For indoor use only

Laird-ETS-AA-027-12-22-Data-Sheet-100616

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