

# **DA Tunnel Series DA-033-12-02**

## Thermoelectric Assembly

The DA Tunnel Series is an Direct-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**

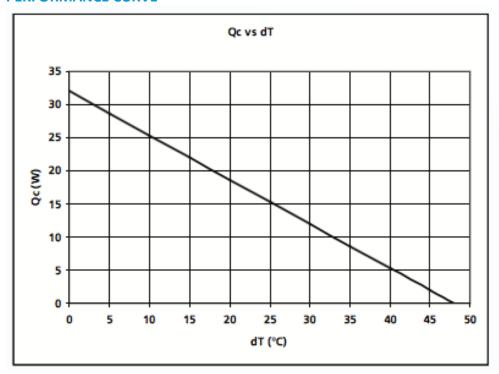
- Analytical instrumentation
- Medical diagnostics
- Photonics laser systems
- Industrial instrumentation
- · Food and beverage cooling

#### **SPECIFICATIONS**

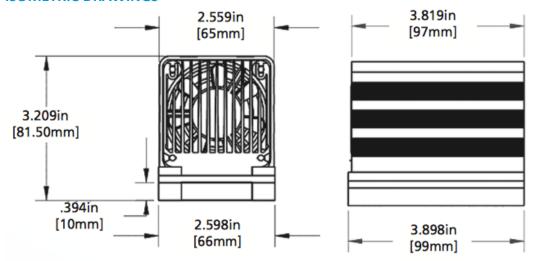
TECHNICAL	
Cooling Power Qcmax (W)	32.0
Running Current (A)	3.1
Startup Current (A)	3.5
Nominal Voltage (V)	12
Max Voltage (V)	14.7
Power Input (W)	37.2
Operating Temperature (°C)	-10 to 45
Weight (kg)	0.54
MTBF (fans – hrs)	40,000
Performance Tolerance	±10%



### **PERFORMANCE CURVE**

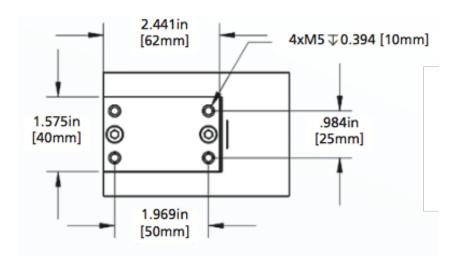


### **ISOMETRIC DRAWINGS**





### **MOUNTING HOLE LOCATION**



#### **WIRING SCHEMATIC**

## **Electrical Connections**

"TEM+": RED

"TEM-": BLACK

"F+": + RED

"F-": - BLACK OR BLUE

#### **NOTES**

Thermal grease included For indoor use only

#### Laird-ETS-DA-033-12-02-Data-Sheet-100616

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