#### Tunnel Series Thermoelectric Cooler Assembly

The DA-025-12-02 is a thermoelectric based air conditioner designed to temperature control small chambers used in analytical and medical diagnostic instruments. The unique design offers premium fans pushing air across-high density heat sinks to minimize the number of air flow paths required to operate. The design utilizes custom thermoelectric modules to maximize cooling capacity with a high coefficient of performance. Moisture resistant insulation is used to keep condensation from penetrating the thermoelectric module cavity. The unit operates on DC and is designed for an indoor lab use environment. It has a maximum Qc of 25 Watts when  $\Delta T = 0$  and a maximum  $\Delta T$  of 42 °C at Qc = 0.

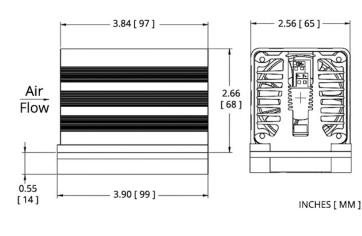
#### Features

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

#### **Applications**

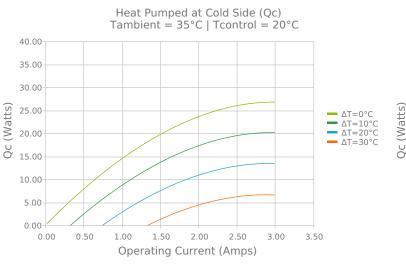
- Thermoelectric Coolers and Assemblies for Medical Applications
- Liquid Cooling Options for PET and SPECT Scanners
- Peltier Cooling for Refrigerated Centrifuges
- High-Performance Liquid Chromatography (HPLC)
- Thermal Management Solutions for Beverage Cooling
- Heating and Cooling for Liquid Chromatography Systems

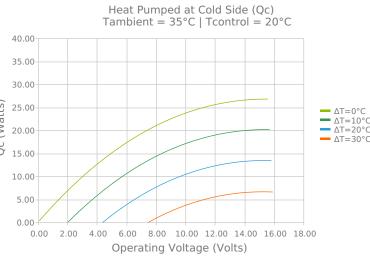


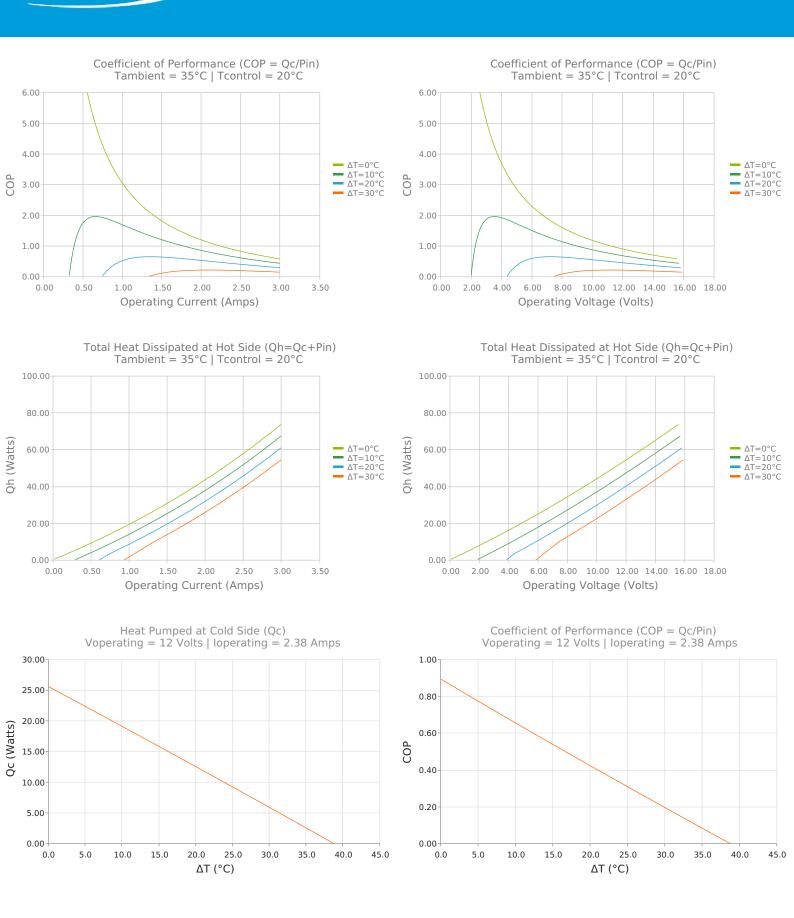




### **ELECTRICAL AND THERMAL PERFORMANCE**





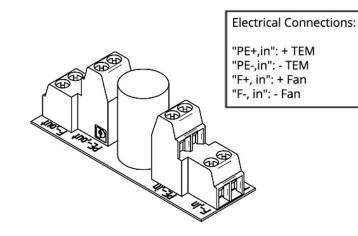


### **SPECIFICATIONS**

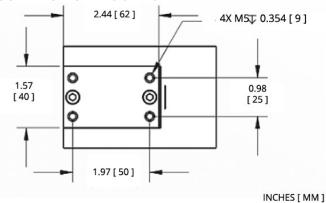
Operating Temperature Range Supply Voltage Current Draw Power Supply Performance Tolerance Fan MTBF Weight

-10°C to 45°C	
12.0 VDC nominal / 15.0 VDC maximum	
2.5 A running / 3.1 A startup	
30.0 Watts	
10%	
50,000 hours	
0.60 kg	

#### WIRING SCHEMATIC



# **MOUNTING HOLE LOCATION**



# NOTES

<sup>1</sup>For indoor use only

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