

Tunnel Series Thermoelectric Cooler Assembly

The DA-025-24-02 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 ΔT of 42 °C at Qc = 0.

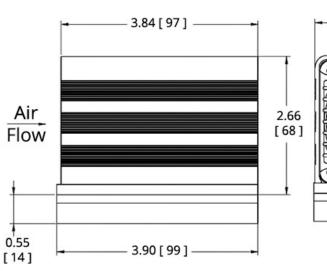
Features

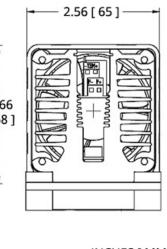
- Compact design
- Precise temperature control
- Reliable solid-state operation
- DC operation
- RoHS-compliant

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

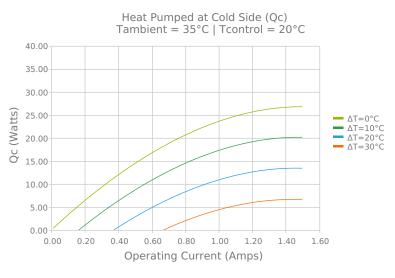


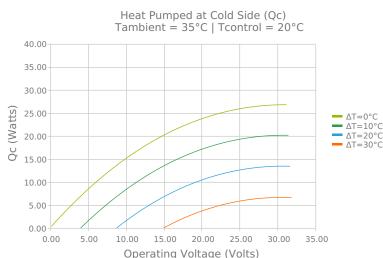




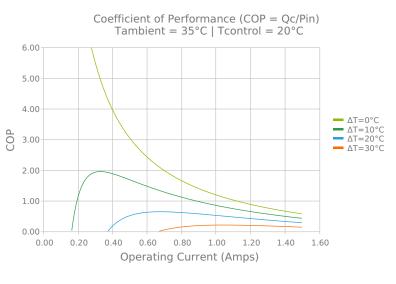
INCHES [MM]

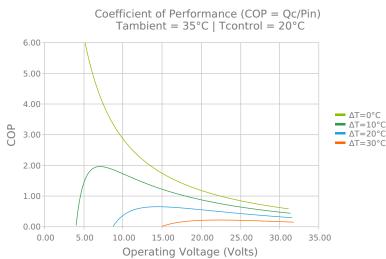
ELECTRICAL AND THERMAL PERFORMANCE

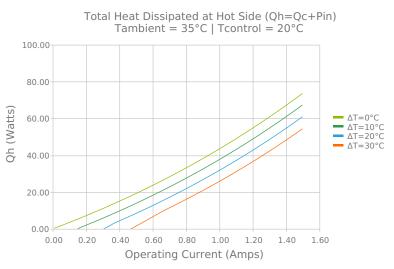


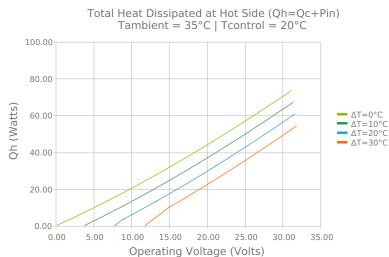


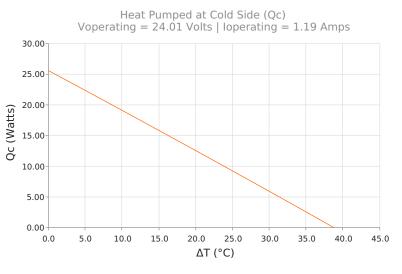


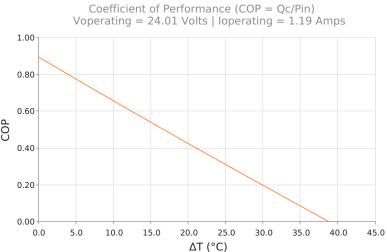














SPECIFICATIONS

Operating Temperature Range

Supply Voltage

Current Draw

Power Supply

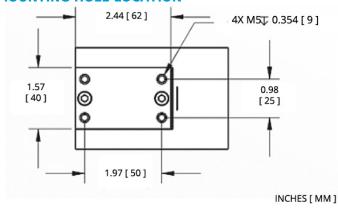
Performance Tolerance

Fan MTBF

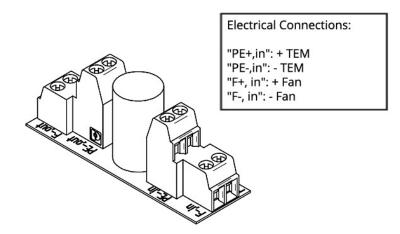
Weight

-10°C to 49°C 24.0 VDC nominal / 29.5 VDC maximum 1.6 A running / 2.0 A startup 39.0 Watts 10% 40,000 hours 0.80 kg

MOUNTING HOLE LOCATION



WIRING SCHEMATIC



NOTES

¹For indoor use only

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