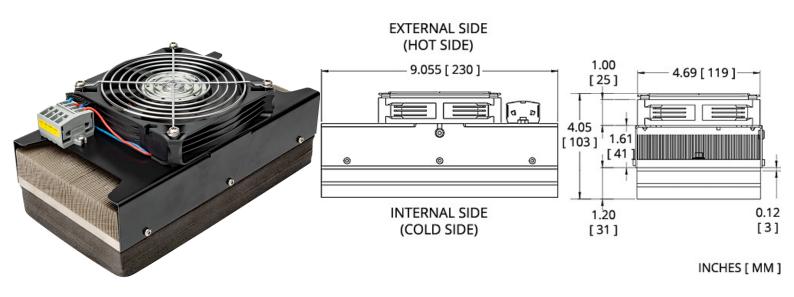


SuperCool Series Thermoelectric Cooler Assembly

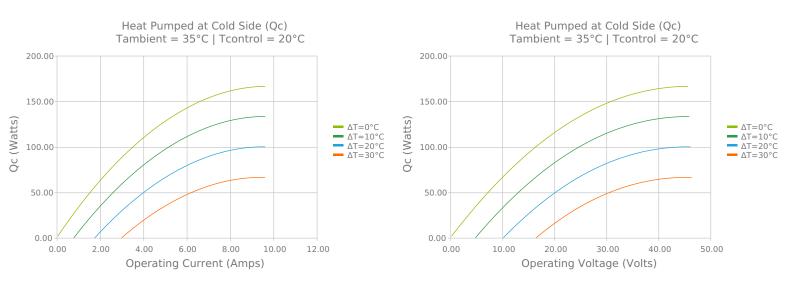
The SDA-130-24-02 Direct-to-Air thermoelectric assembly is a high performance thermoelectric based heat pump. It is designed to temperature control small chambers used in medical diagnostics or sample storage compartments in analytical instrumentation. This unique, patented design offers a high performance hot side heat dissipation mechanism that convects heat more efficiently than conventional heat exchanger technologies. The design utilizes custom thermoelectric modules to maximize cooling capacity and premium grade fans to reduce noise. Moisture resistant insulation is used to keep condensation from penetrating into the TEM cavity. This unit operates at 24 VDC and is designed for indoor lab use environment. It has a maximum Qc of 126 Watts when $\Delta T = 0$ and a maximum ΔT of 41 °C at Qc = 0. US Patent US2016/0255746 A1

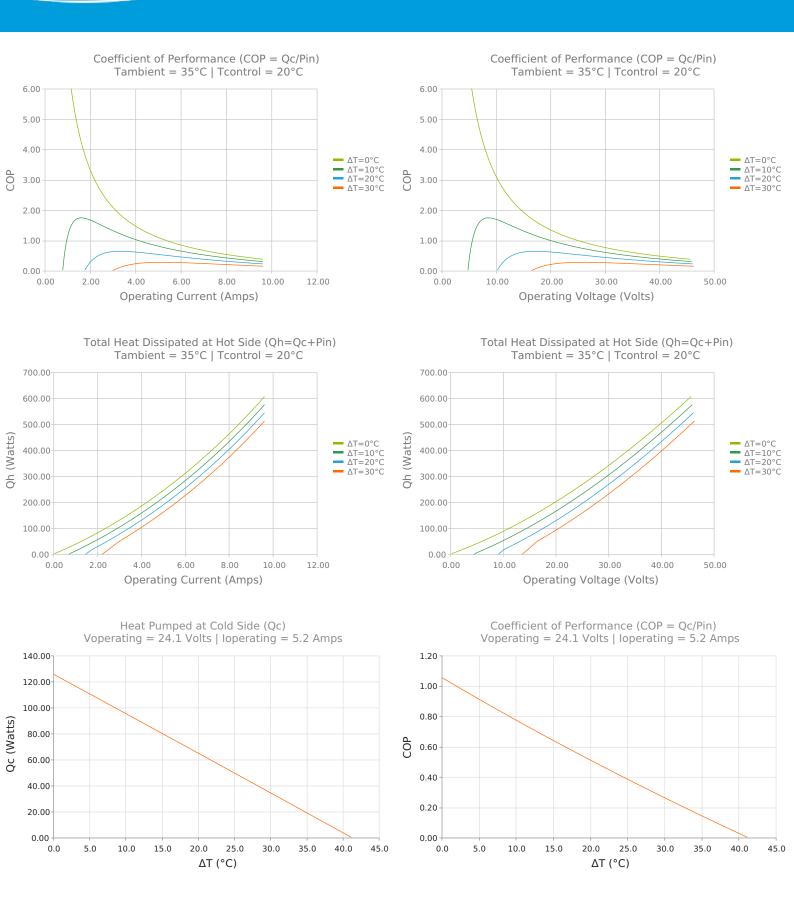
Features

- High performance
- Compact form factor •
- Reliable solid-state operation •
- RoHS-compliant
- **Applications**
- Liquid Cooling Options for PET and SPECT Scanners
- Peltier Cooling for Refrigerated Centrifuges
- Heating and Cooling of Incubator Chambers .
- Thermal Management Solutions for Beverage Cooling •



ELECTRICAL AND THERMAL PERFORMANCE

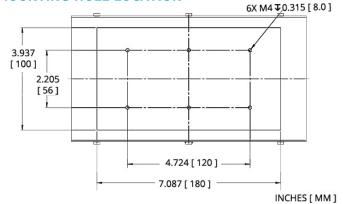




SPECIFICATIONS

Operating Temperature Range	-20 °C to 60°C
Supply Voltage	24.0 VDC nominal / 30.0 VDC maximum
Current Draw	5.0 A running / 6.4 A startup
Power Supply	120.0 Watts
Performance Tolerance	10%
Fan MTBF	50,000 hours
Sound Level (1 m distance)	61 hours
Weight	2.30 kg

MOUNTING HOLE LOCATION



WIRING SCHEMATIC

NOTES

¹For indoor use only

²Units are generally maintenance free, however occasionally it is recommended to clean the heat sinks and fans of debris. This is best done with compressed air.

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Date: 04/24/2020