

SuperCool Series Thermoelectric Cooler Assembly

The SAA-110-24-22 Air-to-Air thermoelectric cooler assembly is a high performance thermoelectric based air conditioner. 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 thermoelectric module cavity. This unit operates at 24 VDC and is designed for indoor lab use environment. It has a maximum Qc of 110 Watts when $\Delta T = 0$ and a maximum ΔT of 40 °C at Qc = 0.

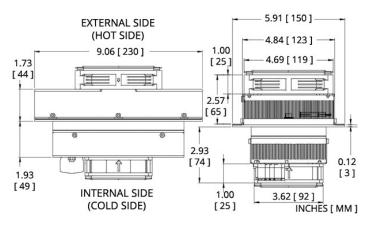
Features

- High performance
- · Compact form factor
- Reliable solid-state operation
- RoHS-compliant

Applications

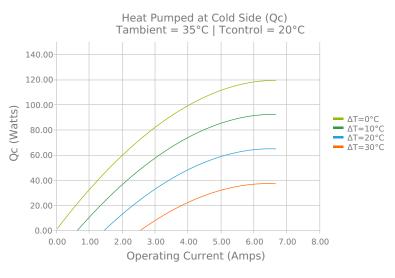
- Liquid Cooling Options for PET and SPECT Scanners
- Peltier Cooling for Refrigerated Centrifuges
- Heating and Cooling of Incubator Chambers
- Thermal Management Solutions for Beverage Cooling

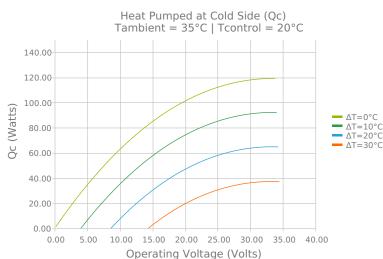




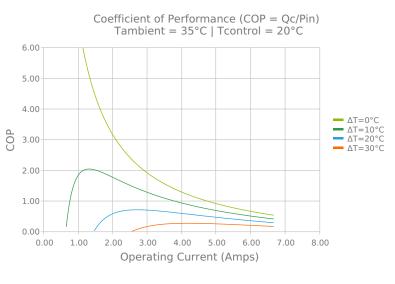


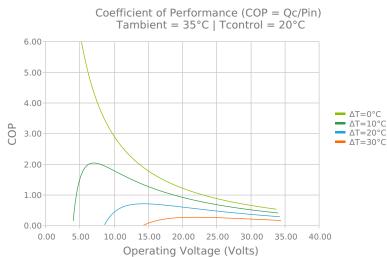
ELECTRICAL AND THERMAL PERFORMANCE

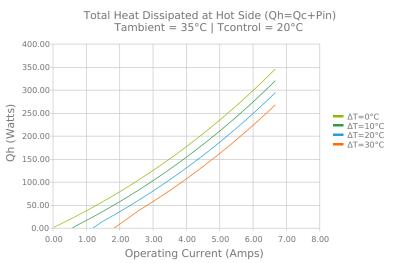


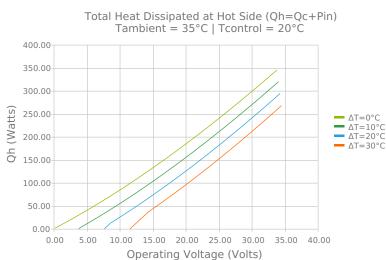


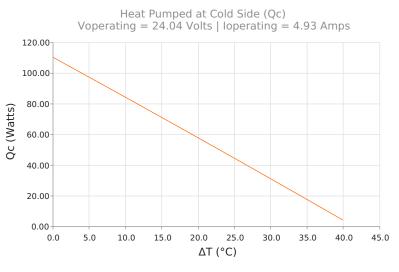


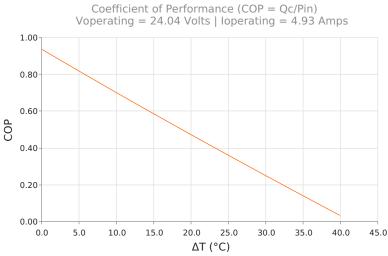














SPECIFICATIONS

Operating Temperature Range

Supply Voltage

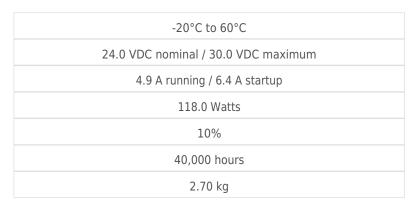
Current Draw

Power Supply

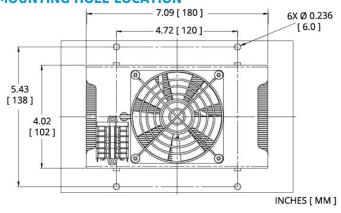
Performance Tolerance

Fan MTBF

Weight

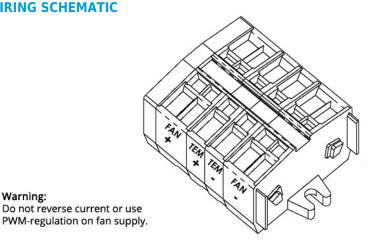


MOUNTING HOLE LOCATION



WIRING SCHEMATIC

Warning:



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: 12/14/2021