

### SuperCool Series Thermoelectric Cooler Assembly

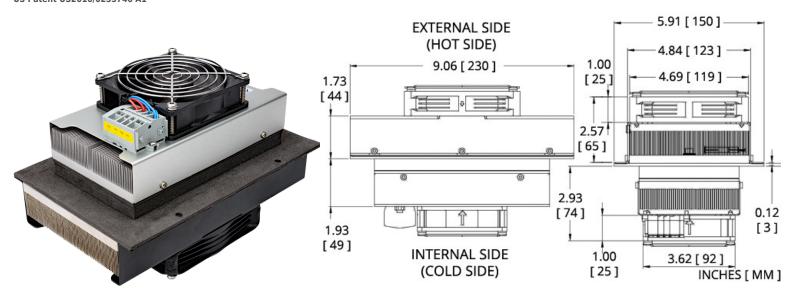
The SAA-110-24-22 Air-to-Air thermoelectric cooler assembly is a high performance thermoelectric based air conditioner. It is designed to temperature control small chambers used in medical diagnostics or sample storage compartments in analytical instrumentation. This unique, patented design offers a 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  $\Delta T$  of 40 °C at Qc = 0.

#### **Features**

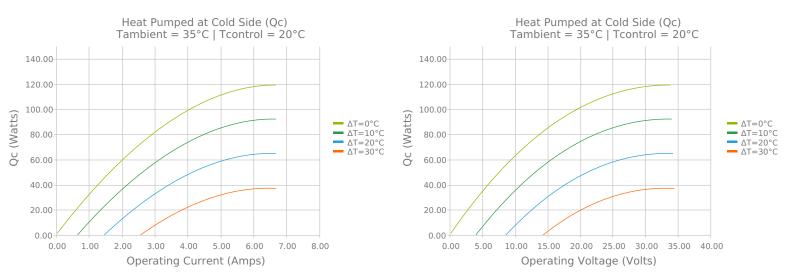
- High performance
- Compact form factor
- Reliable solid-state operation
- RoHS-compliant

### **Applications**

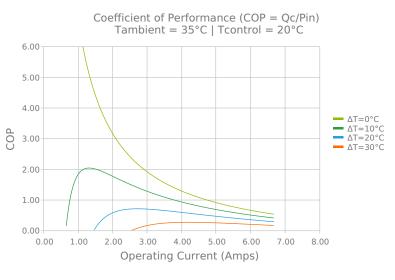
- Liquid Cooling Options for PET and SPECT Scanners
- Peltier Cooling for Refrigerated Centrifuges
- Heating and Cooling of Incubator Chambers
- Thermal Management Solutions for Beverage Cooling

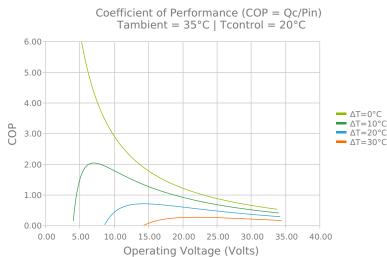


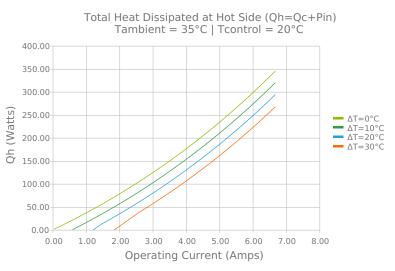
## **ELECTRICAL AND THERMAL PERFORMANCE**

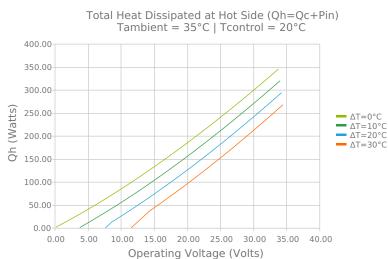


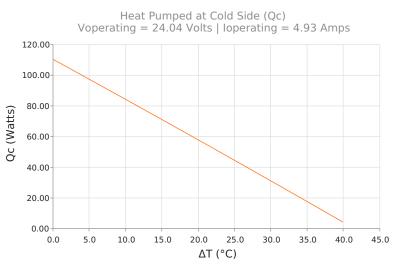


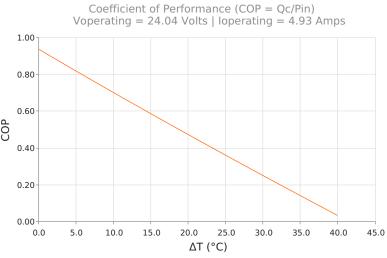














# **SPECIFICATIONS**

**Operating Temperature Range** 

**Supply Voltage** 

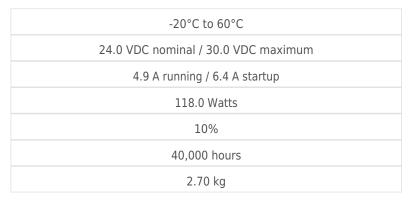
**Current Draw** 

**Power Supply** 

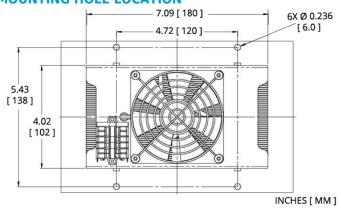
**Performance Tolerance** 

**Fan MTBF** 

Weight

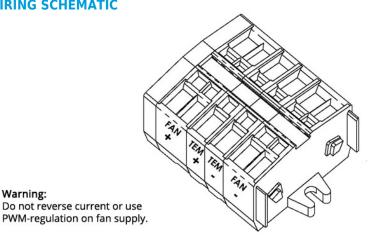


### **MOUNTING HOLE LOCATION**



## **WIRING SCHEMATIC**

Warning:



# **NOTES**

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

<sup>2</sup>Units 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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