

SuperCool Series Thermoelectric Cooler Assembly

Note: This product is not recommended for new designs.

Please use the recommended replacement:

MFG Part Number: 387006706 Description: SAAX-115-24-22

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 next-generation high-performance 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 Δ C of 110 Watts when Δ T = 0 and a maximum Δ T of 40 °C at Qc = 0.



Features

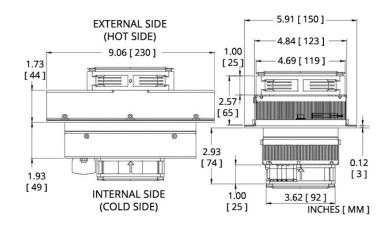
- High performance
- Compact form factor
- Reliable solid-state operation
- RoHS-compliant

SuperCool Series SAA-110-24-22 MFG Part Number: 387003324

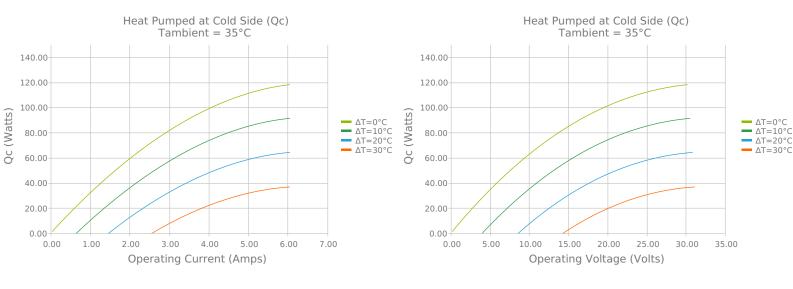
Legacy Product

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



CE

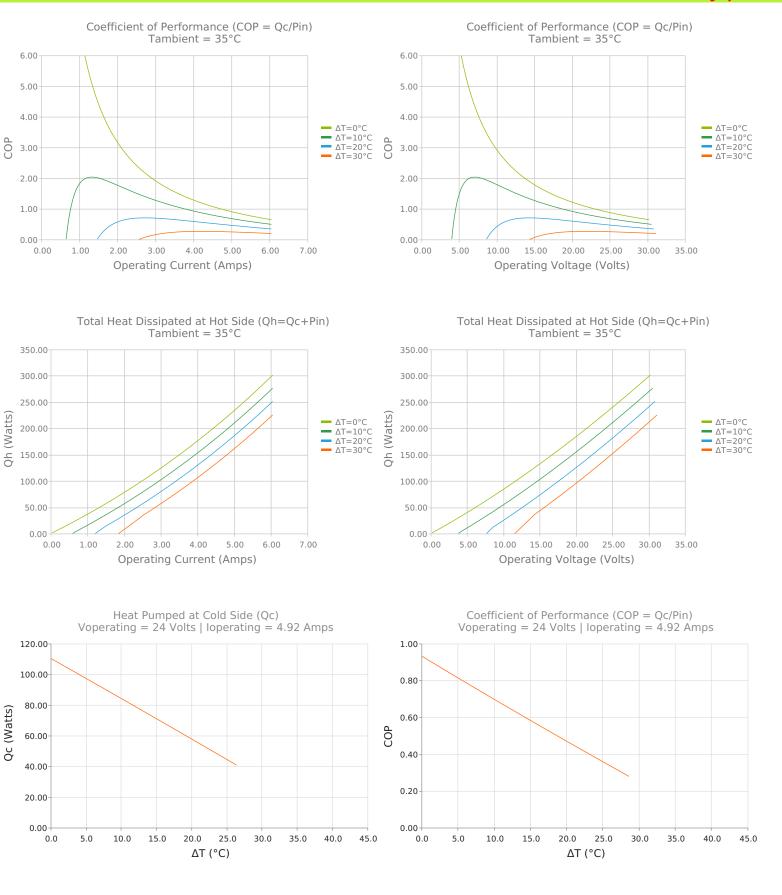


Electrical and Thermal Performance



SuperCool Series SAA-110-24-22 MFG Part Number: 387003324

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Legacy Product

Specifications

Panel Mounting

SuperCool	Series SAA	4-110-24-22
MFG Pa	rt Number:	387003324

Through

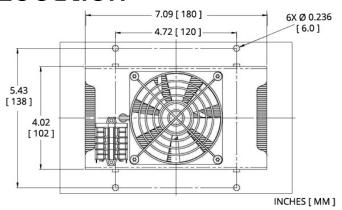
Heat Transfer Mechanism, Cold Side Air - Forced Convection Heat Transfer Mechanism, Hot Side Air - Forced Convection **Operating Temperature Range** -20°C to 60°C **Supply Voltage** 24.0 VDC nominal / 30.0 VDC maximum **Current Draw** 4.9 A running / 6.4 A startup **Power Supply** 118.0 Watts **Performance Tolerance** 10% **Hi-Pot Testing** 750 VDC Fan MTBF 40000 hours Over-Temp Thermostat (Hot and Cold Side Heat Sink) without thermostat Weight 2.70 kg



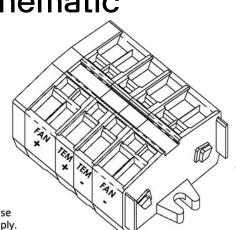
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Mounting Hole Location



Wiring Schematic



Warning: Do not reverse current or use PWM-regulation on fan supply.

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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Revision: 00 Date: 06-01-2022

Print Date: 05-29-2025