

SuperCool Series Thermoelectric Cooler Assembly

Note: This product is not recommended for new designs.

Please use the recommended replacement:

- MFG Part Number: 387006703
- Description: SDAX-220-24-02

The SDA-195-24-02 Direct-to-Air thermoelectric cooler 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 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 Qc of 193 Watts when $\Delta T = 0$ and a maximum ΔT of 39 °C at Qc = 0.



Features

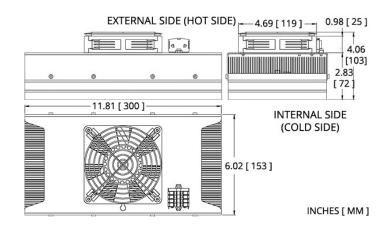
- High performance
- Compact form factor
- Reliable solid-state operation
- RoHS-compliant

SuperCool Series SDA-195-24-02 MFG Part Number: 387000624

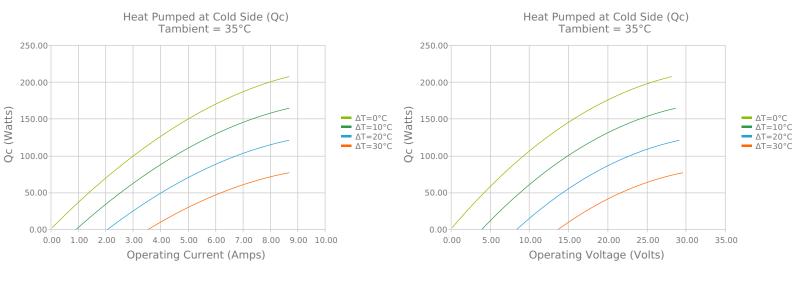
Legacy Product

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

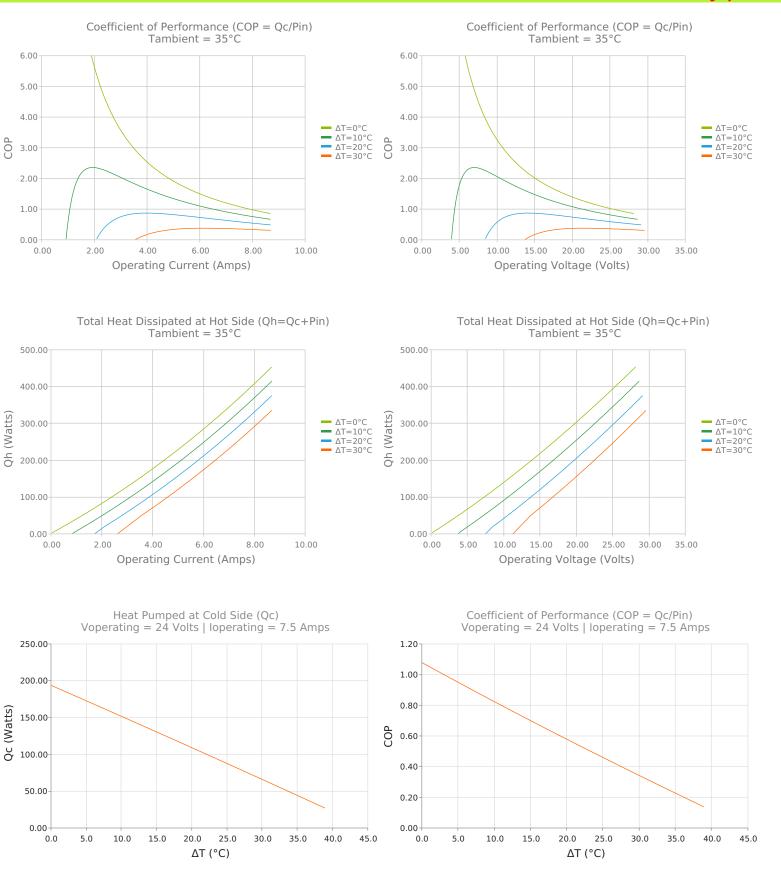


Electrical and Thermal Performance



SuperCool Series SDA-195-24-02 MFG Part Number: 387000624

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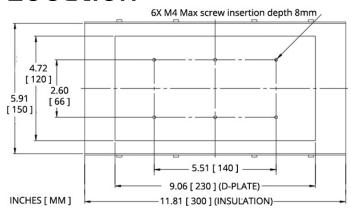
Specifications

Heat Transfer Mechanism, Cold Side	Direct - Conduction
Heat Transfer Mechanism, Hot Side	Air - Forced Convection
Operating Temperature Range	-20°C to 60°C
Supply Voltage	24.0 VDC nominal / 28.0 VDC maximum
Current Draw	7.4 A running / 8.6 A startup
Power Supply	206.0 Watts
Performance Tolerance	10%
Hi-Pot Testing	750 VDC
Fan MTBF	50000 hours
Sound Level (1 m distance)	63 dBA
Weight	4.10 kg
Panel Mounting	Flush Mount

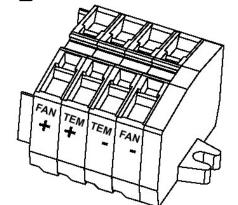


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Mounting Hole Location



Wiring Schematic



Warning: Do not reverse current or use PWM 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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