

SuperCool Series Thermoelectric Cooler Assembly

Note: This product is not recommended for new designs.

Please use the recommended replacement:

MFG Part Number: 387006704 Description: SLAX-215-24-02

The SLA-205-24-02 Liquid-to-Air thermoelectric cooler assembly is a high performance thermoelectric based liquid cooler. It is designed to temperature control small chambers used in medical diagnostics, lasers, imaging systems 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 keep the noise down. 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 202 Watts when $\Delta T = 0$ and a maximum ΔT of 40 °C at Qc = 0. **US Patent US2016/0255746 A1**

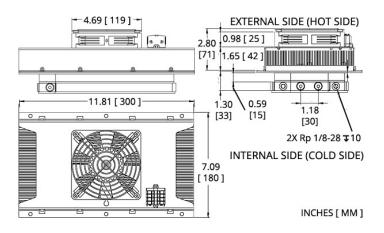


Features

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

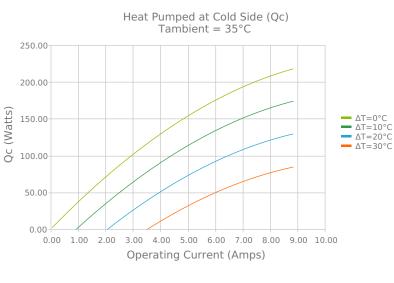
Applications

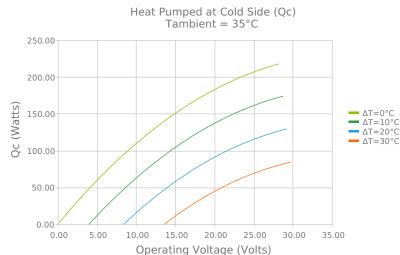
- Liquid Cooling Options for PET and SPECT Scanners
- Peltier Cooling for Refrigerated Centrifuges
- Heating and Cooling of Incubator Chambers
- Thermal Management Solutions for Beverage Cooling





Electrical and Thermal Performance







0.00

0.0

5.0

10.0

15.0

25.0

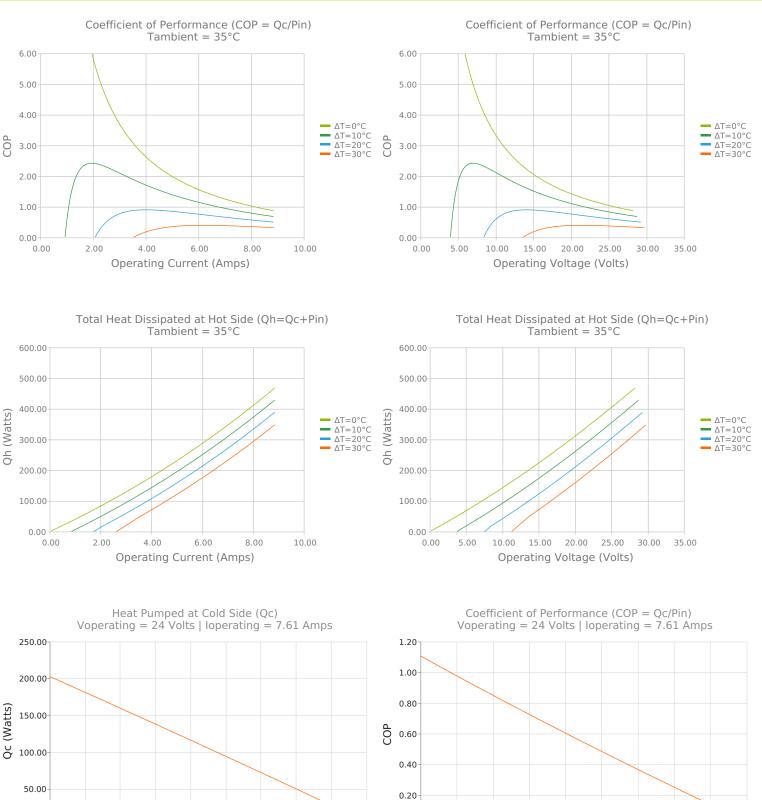
ΔT (°C)

30.0

35.0

40.0

45.0



0.00

0.0

5.0

10.0

15.0

25.0

ΔT (°C)

30.0

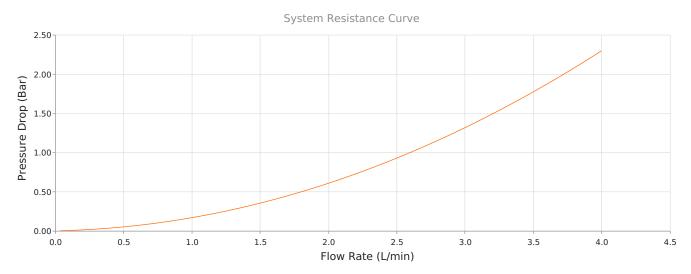
35.0

40.0

45.0

20.0





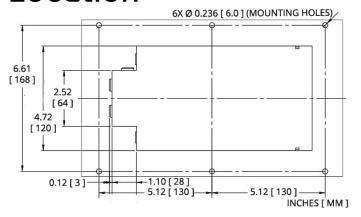
Specifications

Heat Transfer Mechanism, Cold Side	Liquid - Forced Convection
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	Through

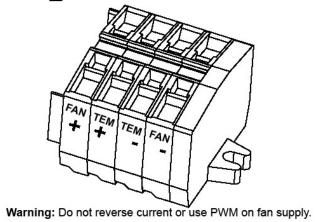




Mounting Hole Location



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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Revision: 00 Date: 06-01-2022

Print Date: 05-29-2025