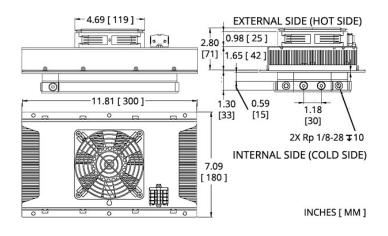


SuperCool Series Thermoelectric Cooler Assembly

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 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

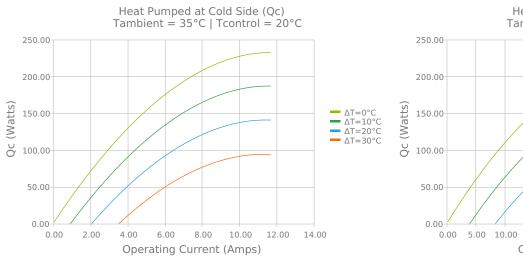
- High performance
- Compact form factor
- Reliable solid-state operation
- RoHS-compliant
- **Applications**
- Liquid Cooling Options for PET and SPECT Scanners
- Peltier Cooling for Refrigerated Centrifuges
- Heating and Cooling of Incubator Chambers
- Thermal Management Solutions for Beverage Cooling

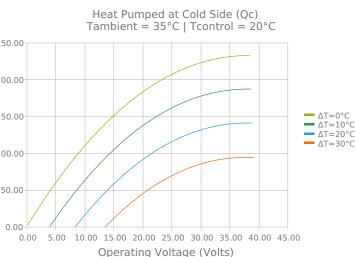


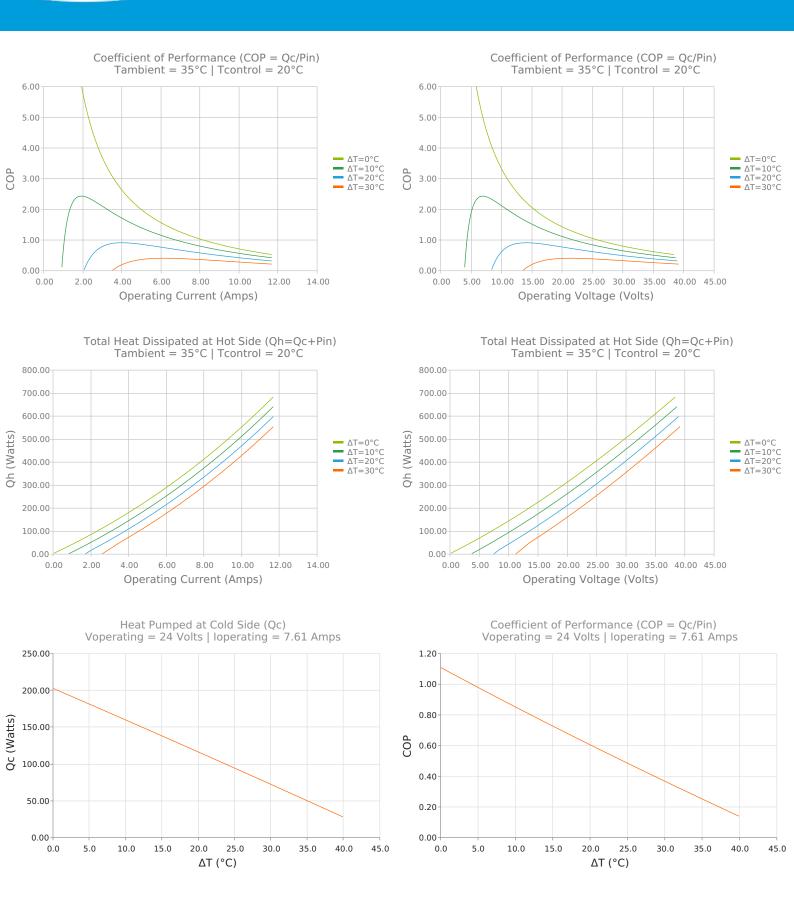




ELECTRICAL AND THERMAL PERFORMANCE

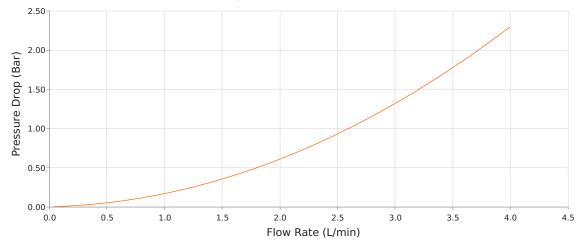








System Resistance Curve



SPECIFICATIONS

Heat Transfer Mechanism, Cold Side

Heat Transfer Mechanism, Hot Side

Operating Temperature Range

Supply Voltage

Current Draw

Power Supply

Performance Tolerance

Hi-Pot Testing

Fan MTBF

Sound Level (1 m distance)

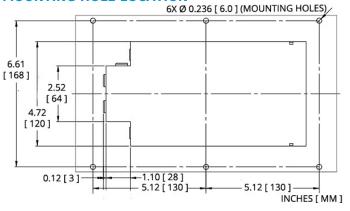
Weight

Panel Mounting

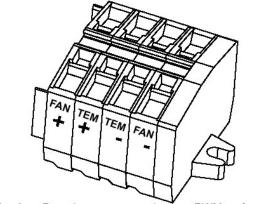
Liquid - Forced Convection
Air - Forced Convection
-20°C to 60°C
24.0 VDC nominal / 28.0 VDC maximum
7.4 A running / 8.6 A startup
206.0 Watts
10%
750 VDC
50,000 hours
63 dBA
4.10 kg
Through



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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