### PowerCool Series Thermoelectric Cooler Assembly

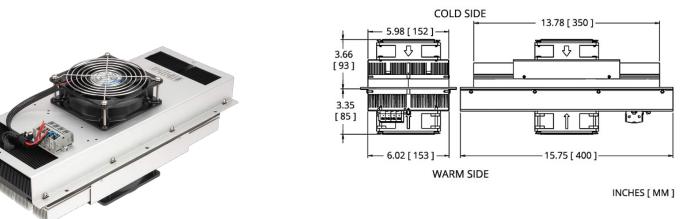
The AA-200-24-22 is an Air-to-Air Thermoelectric Cooler Assembly that uses impingement flow to transfer heat. It offers dependable, compact performance by cooling objects via convection. Heat is absorbed and dissipated through high density heat exchangers equipped with air ducted shrouds and brand name fans. The heat pumping action is created by thermoelectric modules, which are custom designed to achieve a high coefficient of performance (COP). It has a maximum Qc of 195 Watts when  $\Delta T = 0$  and a maximum  $\Delta T$  of 45 °C at Qc = 0.

#### Features

- Compact design
- Precise temperature control
- Reliable solid-state operation
- Low noise
- RoHS-compliant

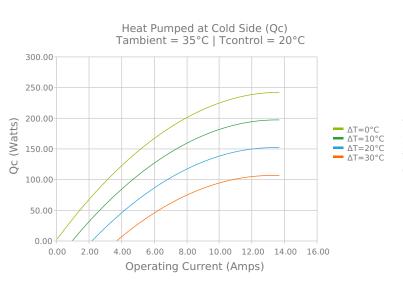
#### **Applications**

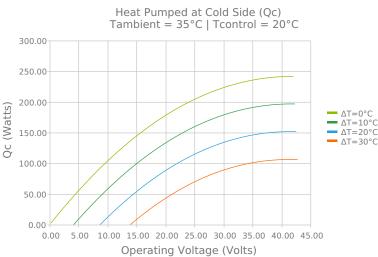
- Medical Diagnostic and Analytical Instrumentation
- Thermoelectric Coolers and Assemblies for Medical Applications
- Liquid Cooling Options for PET and SPECT Scanners
- Cooling for Centrifuges
- High-Performance Liquid Chromatography (HPLC)
- Heating and Cooling for Liquid Chromatography Systems

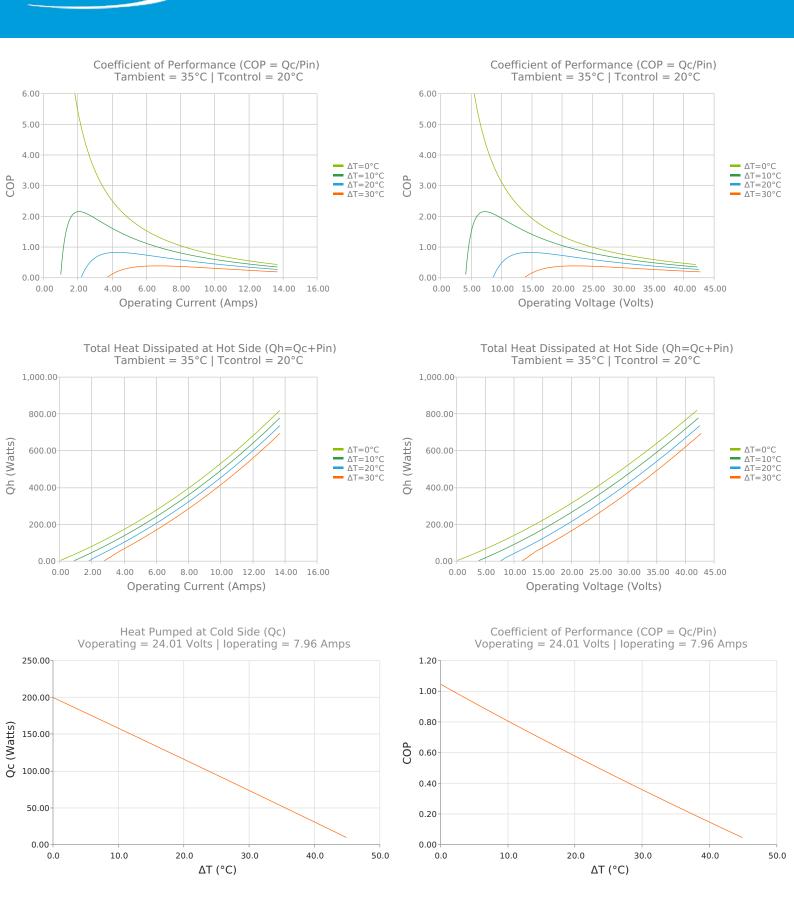




## **ELECTRICAL AND THERMAL PERFORMANCE**





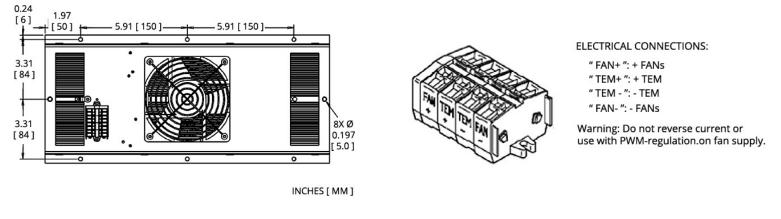


# **SPECIFICATIONS**

Heat Transfer Mechanism, Cold Side	Air - Forced Convection
Heat Transfer Mechanism, Hot Side	Air - Forced Convection
Operating Temperature Range	-10°C to 48°C
Supply Voltage	24.0 VDC nominal / 30.0 VDC maximum
Current Draw	10.1 A running / 13.0 A startup
Power Supply	271.0 Watts
Performance Tolerance	10%
Hi-Pot Testing	750 VDC
Fan MTBF	40,000 hours
Over-Temp Thermostat (Hot and Cold Side Heat Sink)	$80^{\circ}C \pm 5^{\circ}C$ (hot side heat sink)
Weight	6.00 kg
Panel Mounting	Through

### **MOUNTING HOLE LOCATION**





## 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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Revision: 00 Date: 06-01-2022

Print Date: 06-15-2022