

PowerCool Series Thermoelectric Cooler Assembly

The AA-060-12-22 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 58 Watts when $\Delta T=0$ and a maximum ΔT of 41 °C at Qc = 0.

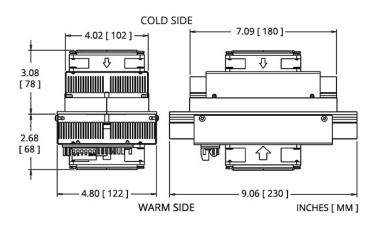


Features

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

Applications

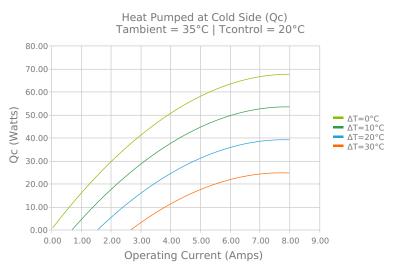
- Medical Diagnostic and Analytical Instrumentation
- Thermoelectric Coolers and Assemblies for Medical Applications
- Liquid Cooling Options for PET and SPECT Scanners
- Cooling for Centrifuges
- High-Performance Liquid Chromatography (HPLC)
- Heating and Cooling for Liquid Chromatography Systems

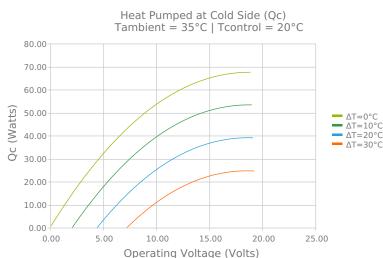




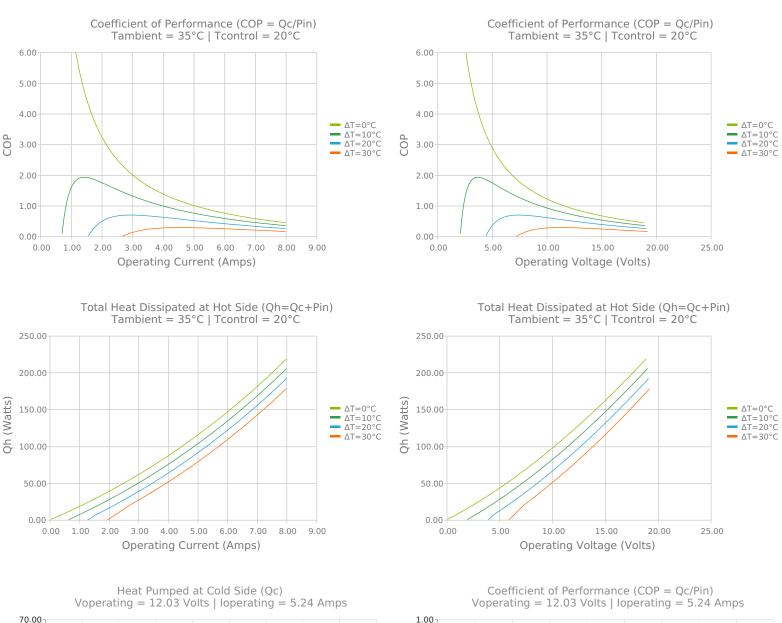


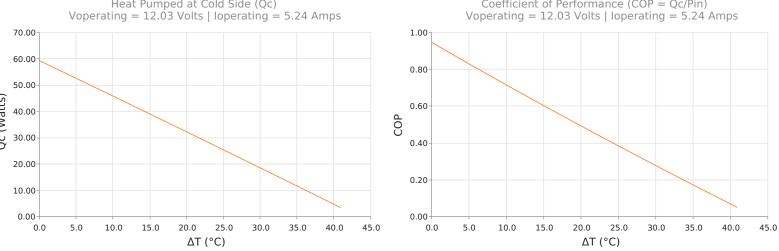
ELECTRICAL AND THERMAL PERFORMANCE













SPECIFICATIONS

Heat Transfer Mechanism, Cold Side

Heat Transfer Mechanism, Hot Side

Operating Temperature Range

Supply Voltage

Current Draw

Power Supply

Performance Tolerance

Hi-Pot Testing

Fan MTBF

Over-Temp Thermostat (Hot and Cold Side Heat Sink)

Weight

Panel Mounting

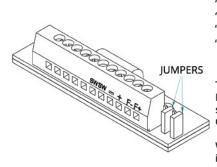
Air - Forced Convection
Air - Forced Convection
-10°C to 51°C
12.0 VDC nominal / 15.0 VDC maximum
5.7 A running / 7.2 A startup
74.0 Watts
10%
750 VDC
40,000 hours
75°C ± 5°C (hot side heat sink)
2.50 kg
Through



MOUNTING HOLE LOCATION

2.40 [61] 2XØ 0.205 [5.2]

WIRING SCHEMATIC



ELECTRICAL CONNECTIONS:

" + ": + TEM " - ": - TEM " F+ ": + FAN(S) " F- ": - FAN(S)

To use single supply: Lift the jumpers and rotate 90° to short-out the pin pairs. Connect the unit to " + " & " - ".

Warning: Single supply not applicable in heating mode or with PWM-regulation.

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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