PowerCool Series Thermoelectric Cooler Assembly

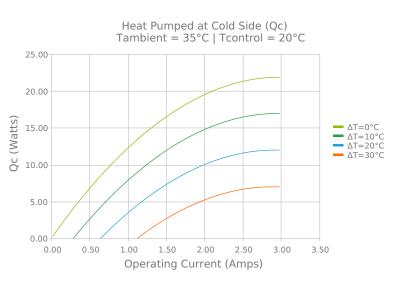
The AA-019-12-22 is an Air-to-Air Thermoelectric Cooler Assembly that uses impingement flow to transfer heat. It offers dependable, compact performance by cooling objects via convection. Heat is absorbed and dissipated through high density heat exchangers equipped with air ducted shrouds and brand name 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 20 Watts when $\Delta T = 0$ and a maximum ΔT of 41 °C at Qc = 0.

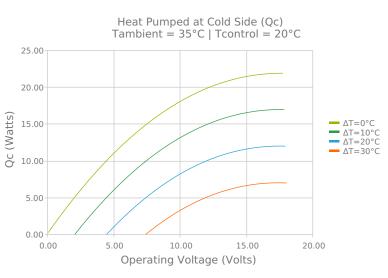


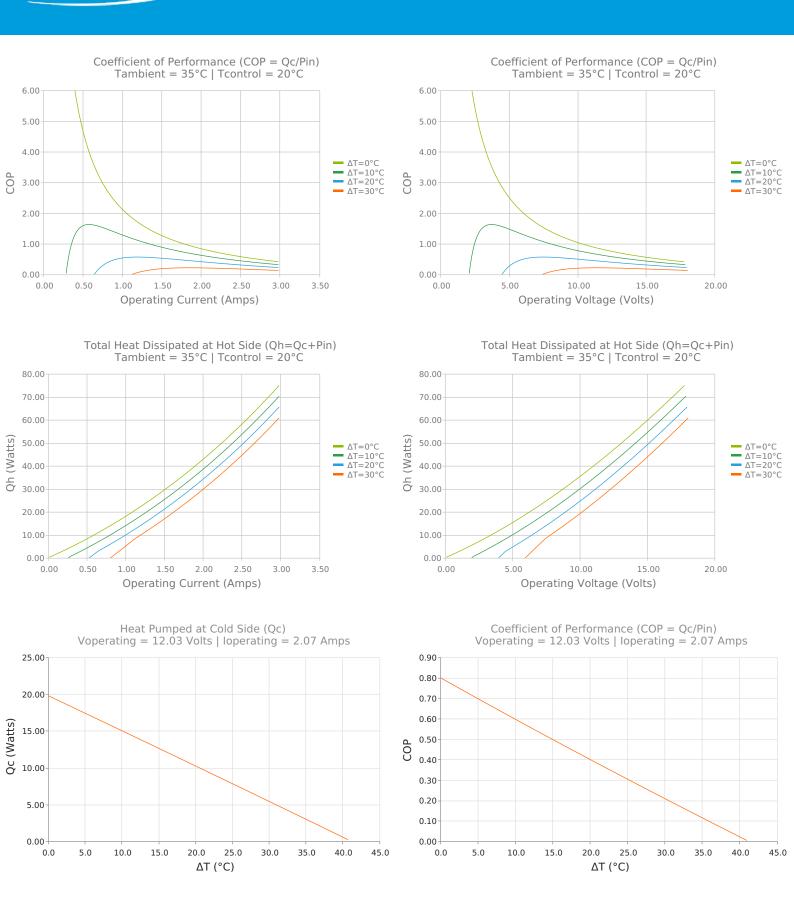
Features

- 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





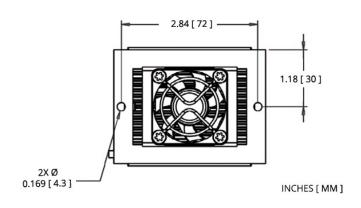


SPECIFICATIONS

Operating Temperature Range Supply Voltage Current Draw Power Supply Performance Tolerance Fan MTBF Weight

	-10°C to 52°C	
12	2.0 VDC nominal / 15.0 VDC maximum	
	2.3 A running / 2.8 A startup	
	28.0 Watts	
	10%	
	40,000 hours	
	0.32 kg	

MOUNTING HOLE LOCATION



WIRING SCHEMATIC

ELECTRICAL CONNECTIONS:
TEM+ : Pink TEM - : Green FAN+ : Purple FAN - : Blue
Warning: Single supply not applicable in heating mode or with PWM- regulation.

NOTES

¹ For indoor use only
² 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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