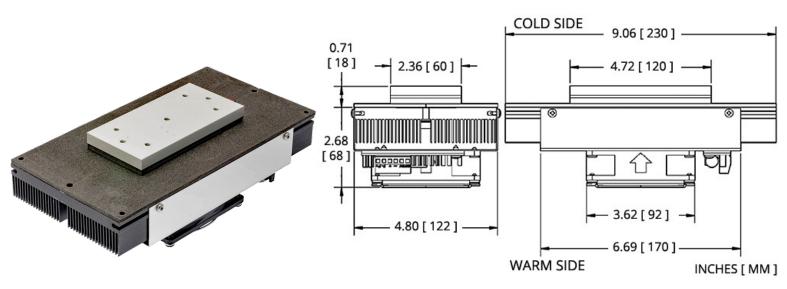


PowerCool Series Thermoelectric Cooler Assembly

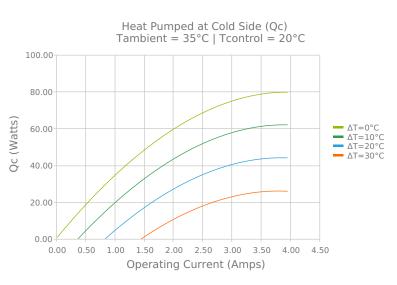
The DA-075-24-02 is a Direct-to-Air Thermoelectric Cooler Assembly that uses impingement flow to transfer heat. It offers dependable, compact performance by cooling objects via conduction. Heat is absorbed through a cold plate and dissipated thru a high density heat exchanger equipped with an air ducted shroud and brand name fan. It has a maximum Qc of 71 Watts when $\Delta T = 0$ and a maximum ΔT of 42 °C at Qc = 0.

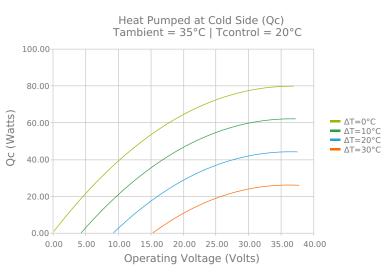
Features

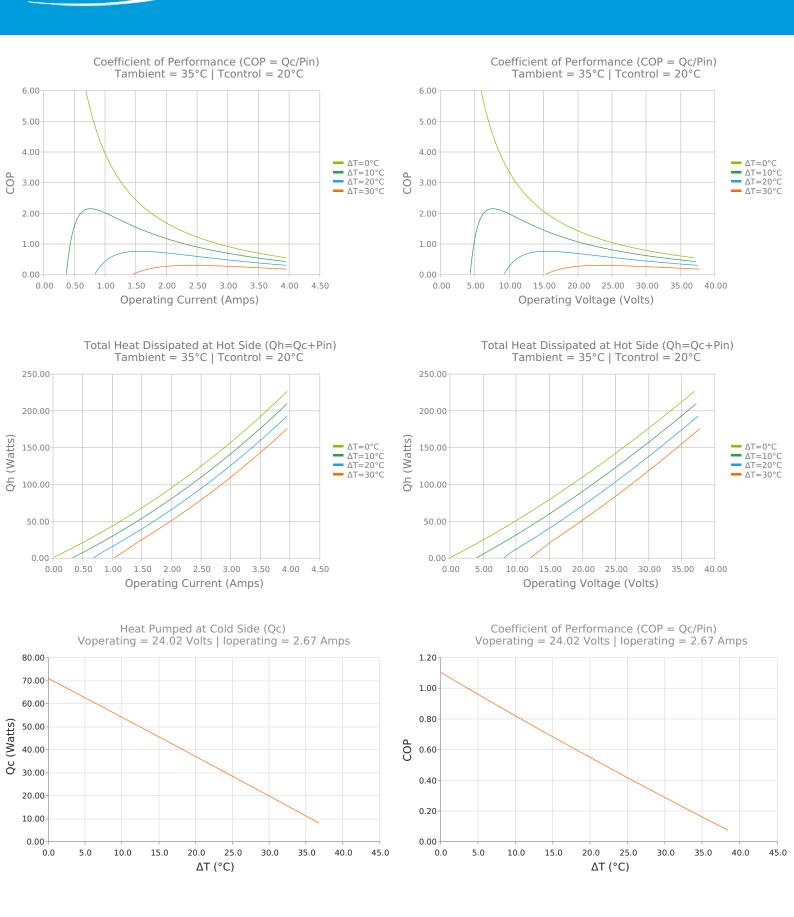
- Compact design
- Precise temperature control
- Reliable solid-state operation
- Low noise
- RoHS-compliant
- **Applications**
- Medical Diagnostic and Analytical Instrumentation
- Thermoelectric Coolers and Assemblies for Medical Applications
- Liquid Cooling Options for PET and SPECT Scanners
 - Cooling for Centrifuges
- High-Performance Liquid Chromatography (HPLC)
- Heating and Cooling for Liquid Chromatography Systems



ELECTRICAL AND THERMAL PERFORMANCE







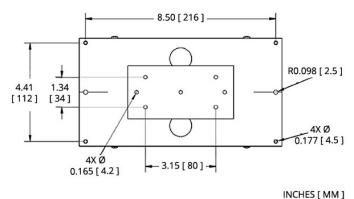
SPECIFICATIONS

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

	-10°C to 47°C	
2	4.0 VDC nominal / 30.0 VDC maximum	
	3.7 A running / 4.6 A startup	
	89.0 Watts	
	10%	
	50,000 hours	
	1.70 kg	

MOUNTING HOLE LOCATION

Weight



JUMPERS

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 PWMregulation.

NOTES

¹For 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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Date: 06/04/2021