

### PowerCool Series Thermoelectric Cooler Assembly

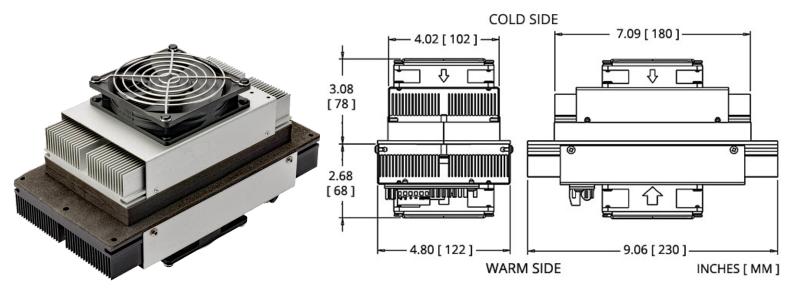
The AA-060-24-22 is an Air-to-Air Thermoelectric Cooler Assembly that uses impingement flow to transfer heat. It offers dependable, compact performance by cooling objects via convection. Heat is absorbed and dissipated through high density heat exchangers equipped with air ducted shrouds and brand name 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 58 Watts when  $\Delta T = 0$  and a maximum  $\Delta T$  of 41 °C at Oc = 0.

#### **Features**

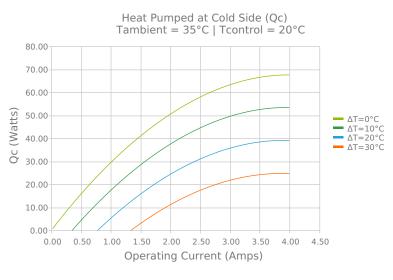
- Compact design
- Precise temperature control
- Reliable solid-state operation
- Low noise
- RoHS-compliant

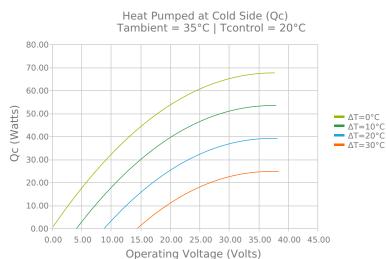
#### **Applications**

- 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

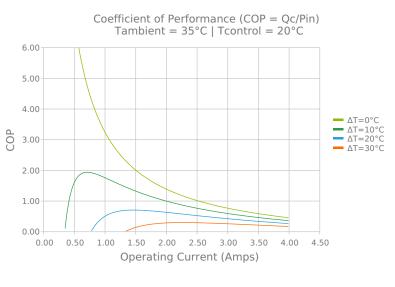


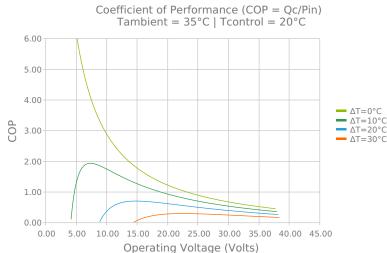
### **ELECTRICAL AND THERMAL PERFORMANCE**

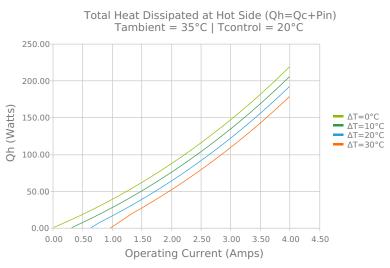


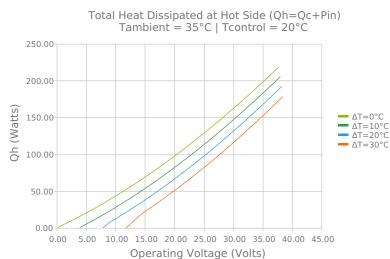


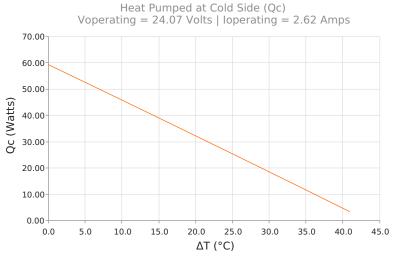


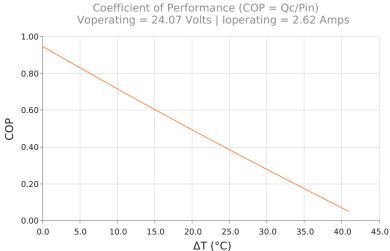














# **SPECIFICATIONS**

**Operating Temperature Range** 

**Supply Voltage** 

**Current Draw** 

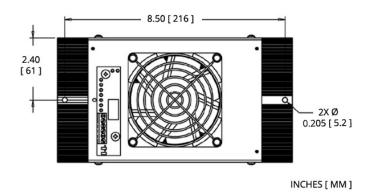
**Power Supply** 

**Performance Tolerance** 

**Fan MTBF** 

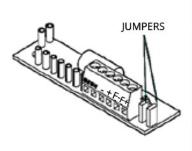
Weight

# **MOUNTING HOLE LOCATION**



-10°C to 51°C	
24.0 VDC nominal / 30.0 VDC maximum	
3.1 A running / 3.9 A startup	
74.0 Watts	
10%	
40,000 hours	
2.50 kg	

## **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**

<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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