

### PowerCool Series Thermoelectric Cooler Assembly

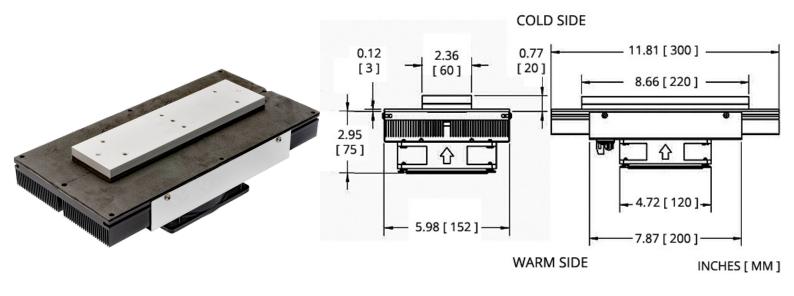
The DA-115-24-02 is a Direct-to-Air Thermoelectric Cooler Assembly that uses impingement flow to transfer heat. It offers dependable, compact performance by cooling objects via conduction. Heat is absorbed through a cold plate and dissipated thru a high density heat exchanger equipped with an air ducted shroud and brand name fan. It has a maximum Qc of 113 Watts when  $\Delta T=0$  and a maximum  $\Delta T$  of 42 °C at Qc = 0.

#### **Features**

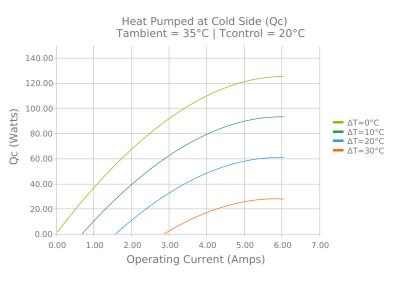
- Compact design
- Precise temperature control
- Reliable solid-state operation
- Low noise
- RoHS-compliant

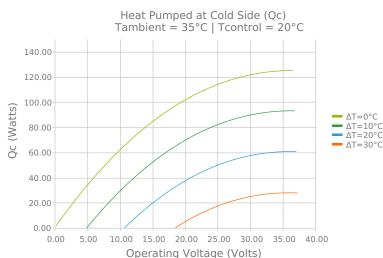
#### **Applications**

- 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

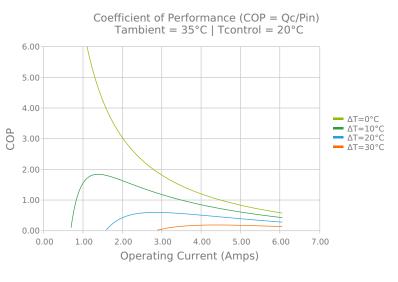


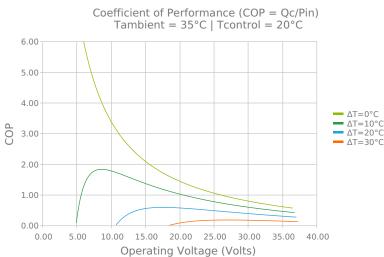
### **ELECTRICAL AND THERMAL PERFORMANCE**

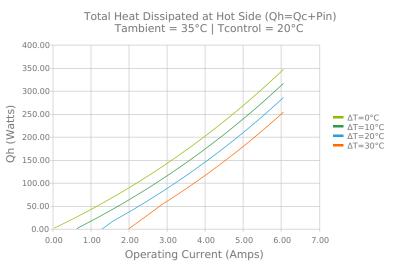


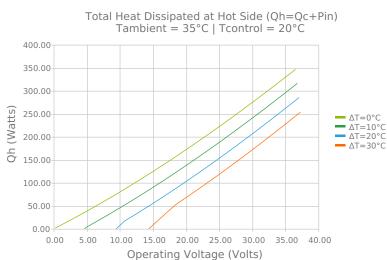


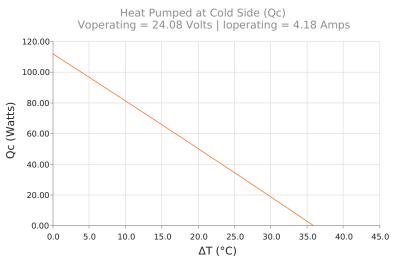


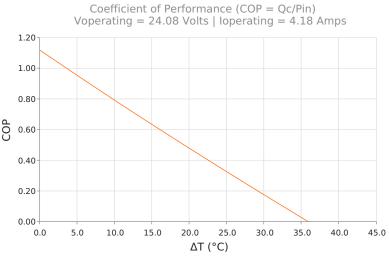














## **SPECIFICATIONS**

**Operating Temperature Range** 

**Supply Voltage** 

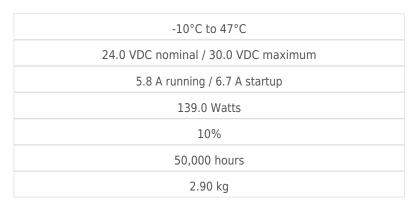
**Current Draw** 

**Power Supply** 

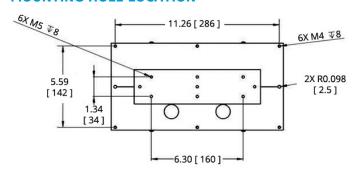
**Performance Tolerance** 

**Fan MTBF** 

Weight

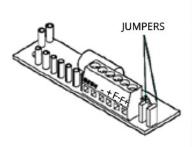


# **MOUNTING HOLE LOCATION**



INCHES [ MM ]

### **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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