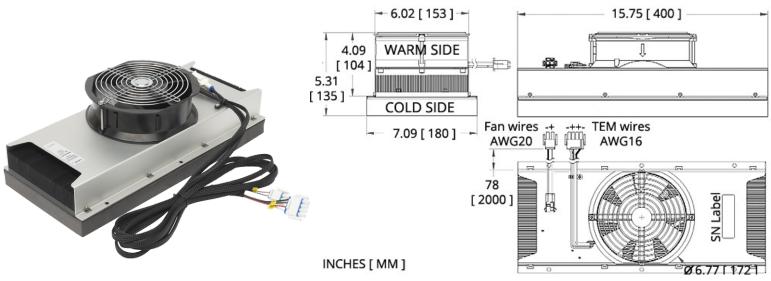


#### PowerCool Series Thermoelectric Cooler Assembly

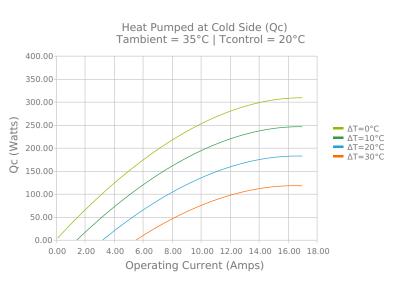
The DA-280-24-02 is a Direct-to-Air Thermoelectric Cooler Assembly that uses impingement flow to transfer heat. It offers dependable, compact performance by cooling objects via conduction. Heat is absorbed through a cold plate and dissipated thru a high density heat exchanger equipped with an air ducted shroud and brand name fan. It has a maximum Qc of 283 Watts when  $\Delta T = 0$  and a maximum  $\Delta T$  of 45 °C at Qc = 0.

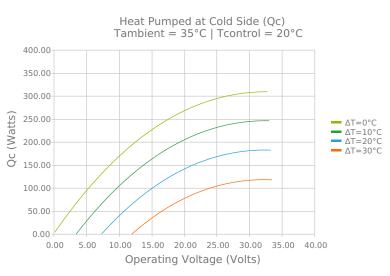
#### Features

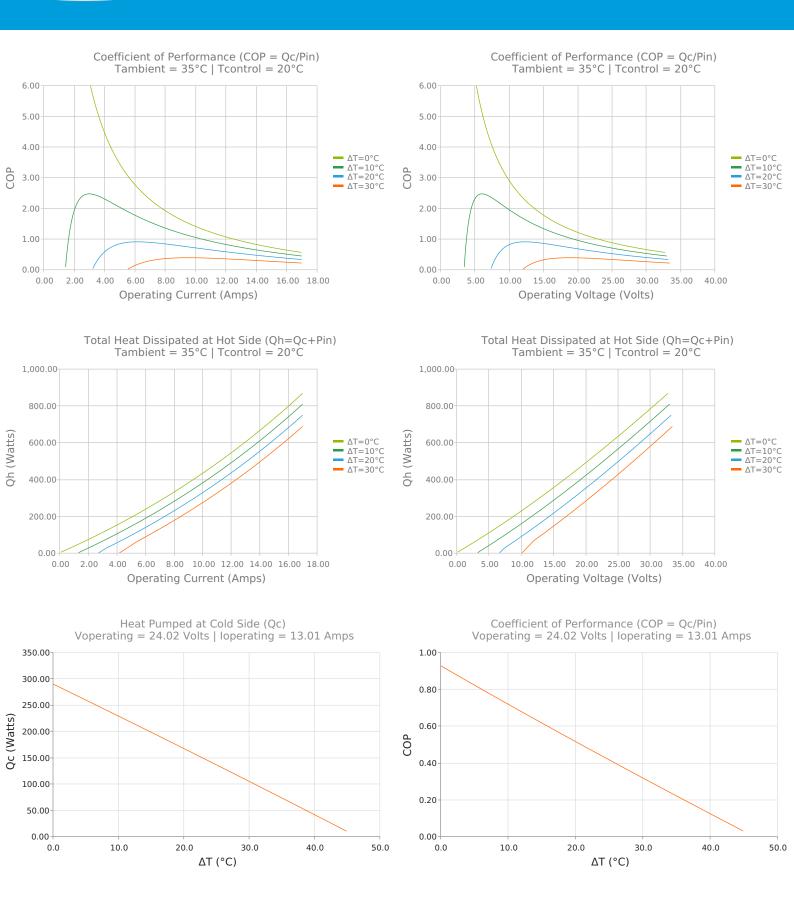
- Compact design
- Precise temperature control
- Reliable solid-state operation •
- Low noise
- RoHS-compliant
- **Applications**
- Medical Diagnostic and Analytical Instrumentation
- . Thermoelectric Coolers and Assemblies for Medical Applications
- Liquid Cooling Options for PET and SPECT Scanners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



## **ELECTRICAL AND THERMAL PERFORMANCE**







# **SPECIFICATIONS**

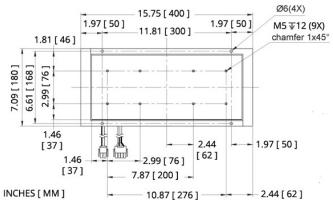
Laird

Operating Temperature Range Supply Voltage Current Draw Power Supply Performance Tolerance Fan MTBF Sound Level (1 m distance)

-20°C to 55°C
24.0 VDC nominal / 28.0 VDC maximum
12.3 A running / 14.8 A startup
295.0 Watts
10%
50,000 hours
60 dBA
6.12 kg

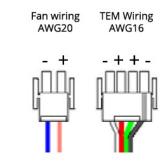
## **MOUNTING HOLE LOCATION**

Weight



## WIRING SCHEMATIC

ELECTRICAL CONNECTIONS:



Warning: Do not reverse current or use PWM-regulation on fan supply.

## **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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