HiTemp ET Series ET15-12-F2-4040-TA-RT-W6 MFG Part Number: 387001825

HiTemp ET Series Thermoelectric Cooler

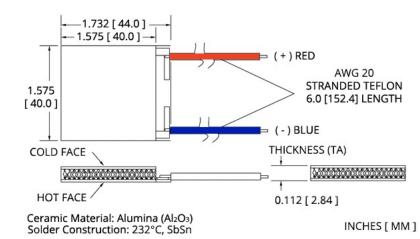
The ETIJ-12-F2-4040-TA-RT-W6 high temperature Thermoelectric Cooler uses Laird's enhanced Thermoelectric Module construction preventing performance degrading copper diffusion, which is common in standard grade TEMs operating in high temperature environments exceeding 80 °C. It has a maximum Qc of 129.3 Watts when $\Delta T = 0$ and a maximum ΔT of 77.9 °C at Qc = 0.

Features

- High-temperature operation
- Reliable solid-state
- No sound or vibration
- Environmentally-friendly
- RoHS-compliant

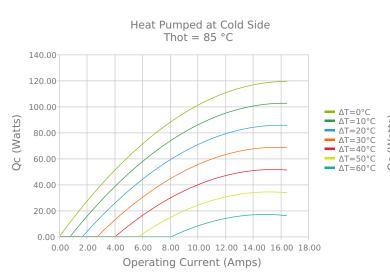
Applications

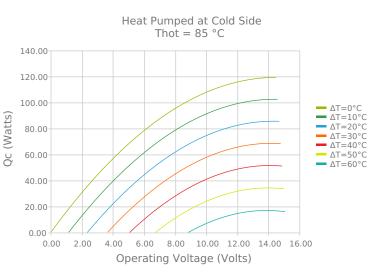
- Peltier Cooling for Refrigerated Centrifuges
- Peltier Cooling for Machine Vision
- Thermoelectric Cooling for CMOS Sensors
- Cooling Solutions for Autonomous SystemsPeltier Cooling for Digital
- Light Processors

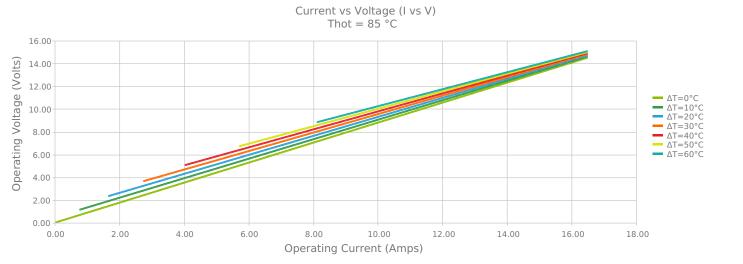


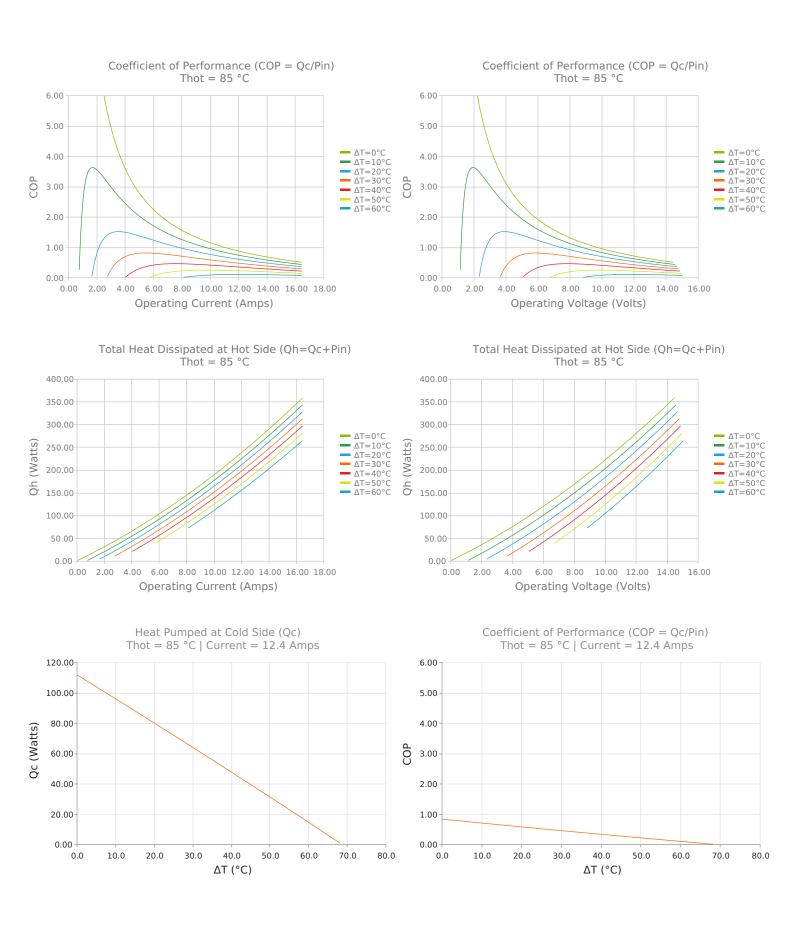
Note: Allow 0.020 in [0.5 mm] around perimeter of the thermoelectric cooler and lead wire attachment to accommodate sealant

ELECTRICAL AND THERMAL PERFORMANCE









SPECIFICATIONS*

Hot Side Temperature	50.0 °C	85.0 °C	110.0 °C
Qcmax (ΔT = 0)	129.3 Watts	141.8 Watts	148.1 Watts
ΔTmax (Qc = 0)	77.9°C	89.3°C	96.2°C
lmax (I @ ΔTmax)	14.3 Amps	14.0 Amps	13.8 Amps
Vmax (V @ ΔTmax)	15.3 Volts	17.5 Volts	19.1 Volts
Module Resistance	0.98 Ohms	1.14 Ohms	1.25 Ohms
Max Operating Temperature	150 °C		
Weight	20.0 gram(s)		

* Specifications reflect thermoelectric coefficients updated March 2020

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length	
11	$2.845 \pm 0.051 \text{ mm}$ $0.112 \pm 0.002 \text{ in}$	0.051 mm / 0.051 mm 0.002 in / 0.002 in	,		50.8 mm 2.00 in	

SEALING OPTIONS

Suffix	Sealant	Color	Temp Range	Description
RT	RTV	White	-60 to 204°C	Non-corrosive, silicone adhesive

NOTES

- 1. Max operating temperature: 150°C
- 2. Do not exceed Imax or Vmax when operating module
- 3. Reference assembly guidelines for recommended installation

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