HiTemp ETX Series ETX9-3-F2-2525-TA-RT-W6 MFG Part Number: 387004954

HiTemp ETX Series Thermoelectric Cooler

The ETX9-3-F2-2525-TA-RT-W6 high temperature, high-performance thermoelectric cooler uses Laird Thermal Systems' enhanced thermoelectric module construction preventing performance degrading diffusion, which is common in standard grade thermoelectric coolers operating in high temperature environments exceeding 80 °C. It has a maximum Qc of 23.6 Watts when $\Delta T = 0$ and a maximum ΔT of 83.2 °C at Qc = 0.

Features



Applications

 Peltier Cooling for Refrigerated Centrifuges Reliable solid-state Peltier Cooling for Machine Vision No sound or vibration • Thermoelectric Cooling for CMOS Sensors Cooling Solutions for Autonomous Systems · Environmentally-friendly • Peltier Cooling for Digital Light Processors RoHS-compliant Heating and Cooling for Liquid Chromatography Systems • Thermoelectric Cooling for Security Cameras 1.130 [28.7] = (+) POSITIVE AWG 18 PTFE STRANDED 6.0 [152] LENGTH 1.000 [25.4 (-) NEGATIVE 0 197 1.000 [5.0] [25.4]



RTV SEALANT

attachment to accommodate sealant

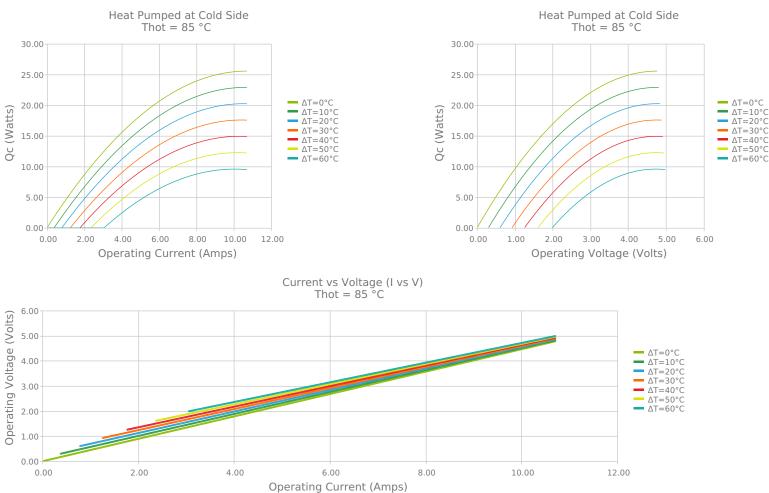
INCHES [MM]

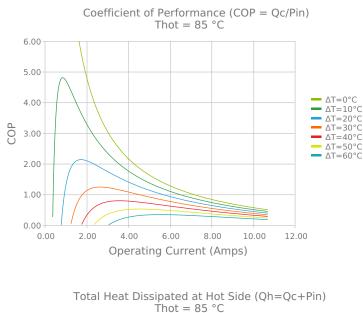
CONTROL SIDE

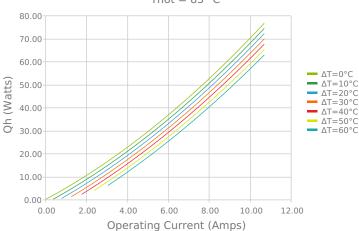
HEATSINK SIDE

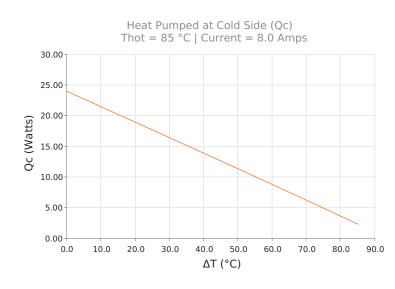
ELECTRICAL AND THERMAL PERFORMANCE

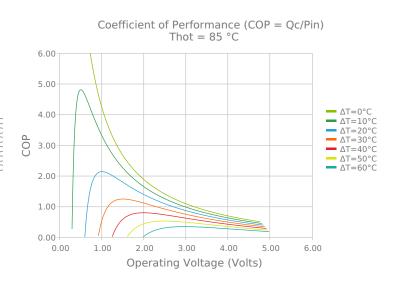
For maximum performance, be sure to orient the CONTROL side of the TEC against the application to be managed and the HEATSINK side against the heat sink or other heat rejection method. The CONTROL side is always opposite the side with lead attachments. Lead attachment is a passive heat loss and less impactful if located on the side that attaches to the heat exchanger.



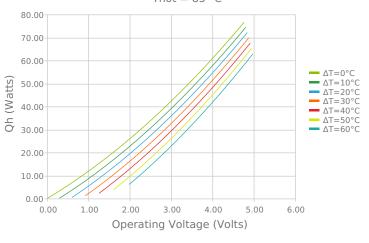




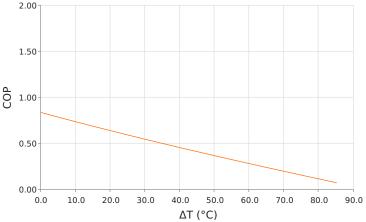




Total Heat Dissipated at Hot Side (Qh=Qc+Pin) Thot = 85 °C



Coefficient of Performance (COP = Qc/Pin) Thot = 85 °C | Current = 8.0 Amps



SPECIFICATIONS*

Hot Side Temperature	50.0 °C	85.0 °C	110.0 °C
$Qcmax (\Delta T = 0)$	23.6 Watts	25.5 Watts	26.3 Watts
$\Delta Tmax (Qc = 0)$	83.2°C	95.3°C	102.0°C
lmax (I @ ΔTmax)	9.9 Amps	9.5 Amps	9.3 Amps
Vmax (V @ ΔTmax)	4.1 Volts	4.7 Volts	5.1 Volts
Module Resistance	0.38 Ohms	0.45 Ohms	0.49 Ohms
Max Operating Temperature	150 °C		
Weight	17.0 gram(s)		

* Specifications reflect thermoelectric coefficients updated March 2020

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
ТА	5.004 ±0.025 mm 0.197 ± 0.0010 in	0.025 mm / 0.025 mm 0.001 in / 0.001 in	Lapped	Lapped	152.4 mm 6.00 in

SEALING OPTIONS

Suffix	Sealant	Color	Temp Range	Description
RT	RTV	Translucent or 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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