

Annular RH Series Thermoelectric Cooler

The RH14-32-06-L1-W4.5 is an annular thermoelectric cooler that is round in shape. The hot and cold side ceramics have a circular hole in the center to accommodate light protrusion for optics, mechanical fastening or temperature probe. It has a maximum Qc of 12.4 Watts when $\Delta T=0$ and a maximum ΔT of 70.5 °C at Qc = 0.

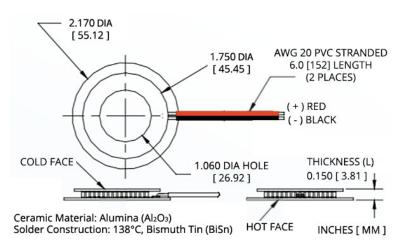
Features

- Center Hole
- Precise Temperature ControlNo sound or vibration
- Reliable solid-state
- DC Operation
- RoHS-compliant

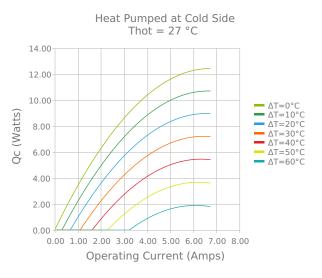
Applications

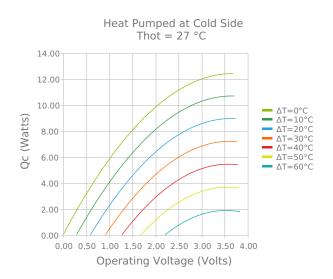
- Thermoelectric Coolers for Reagent Storage
- Thermoelectric Coolers for Handheld Cosmetic Lasers
- Cooling for Centrifuges
- Heads-Up Displays, Imaging Sensors
- Peltier Cooling for Machine Vision

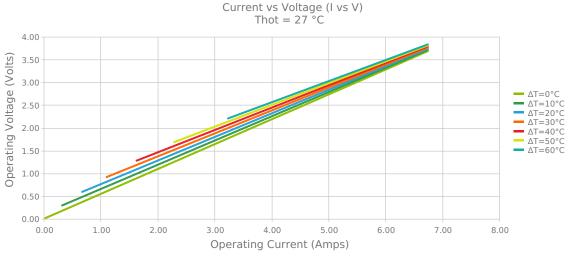




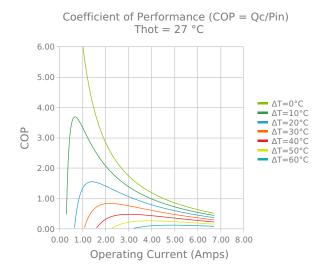
ELECTRICAL AND THERMAL PERFORMANCE

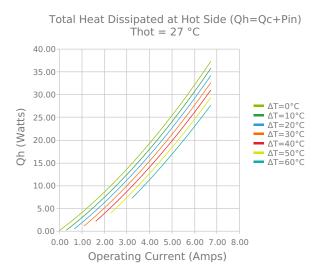


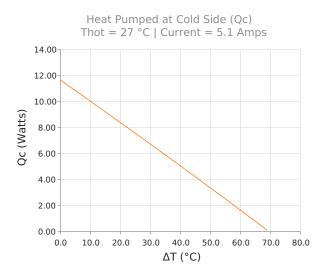


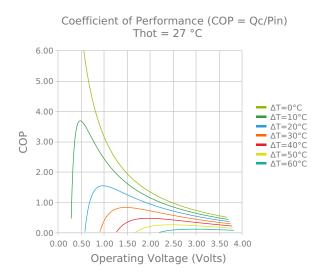


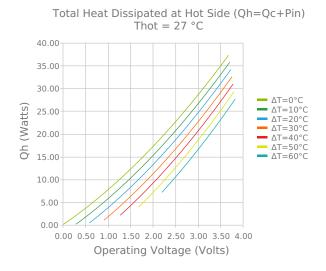


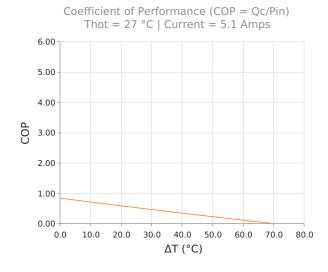














SPECIFICATIONS*

Hot Side Temperature

 $Qcmax (\Delta T = 0)$

 $\Delta T max (Qc = 0)$

Imax (I @ \Darkstrum \

Vmax (V @ ΔTmax)

Module Resistance

Max Operating Temperature

Weight

27.0 °C	35.0 °C	50.0 °C
12.4 Watts	12.8 Watts	13.5 Watts
70.5°C	73.5°C	78.8°C
6.0 Amps	5.9 Amps	5.9 Amps
3.5 Volts	3.6 Volts	3.9 Volts
0.55 Ohms	0.57 Ohms	0.61 Ohms
80 °C		
20.0 gram(s)		

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
L1 3.810 ±0.025 mm 0.150 ± 0.001 in		0.025 mm / 0.025 mm 0.001 in / 0.001 in	Lapped	Lapped	114.3 mm 4.50 in

SEALING OPTIONS

	Suffix	Sealant	Color	Temp Range	Description
None				No sealing specified	

NOTES

- 1. Max operating temperature: 80°C
- 2. Do not exceed Imax or Vmax when operating module
- 3. Reference assembly guidelines for recommended installation
- 4. Solder tinning also available on metallized ceramics

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^{*} Specifications reflect thermoelectric coefficients updated March 2020