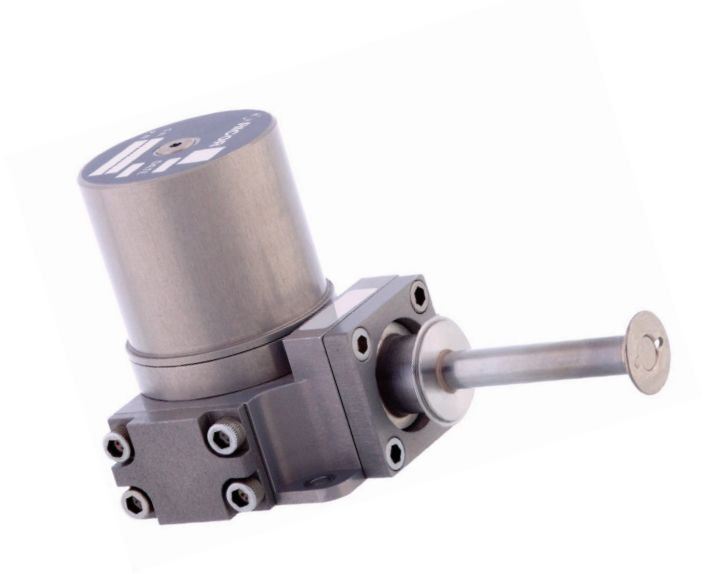
RICOR
CRYOGENIC & VACUUM SYSTEMS

K508

INTEGRAL STIRLING 1/2W MICRO COOLER



The K508 microcooler design model is solidly based on the concepts of direct detector mounting on the cooler's cold finger, and the integral construction of the cooler and Dewar envelope. Operation of the integral Stirling microcooler, driven by a DC brushless motor, is clean, silent and highly reliable. Model K508 has been in service since 1994. Over 70,000 coolers have been fielded and operate reliably onboard numerous ground, airborne, heliborne, naval and space applications. The K508 contains an onboard temperature controller, which offers standby, remote shutdown and over-temperature /over-current protection options. By adopting various types of Dewar envelopes, this microcooler can meet the cooling demands of most advanced IR detectors.

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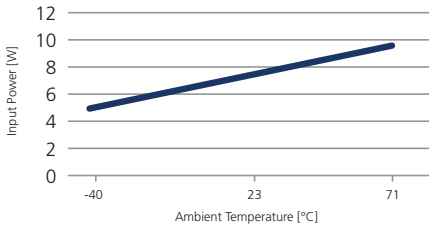
DETECTORS

Small Format Array
Mid Format Array
Large Format Array
Scan Lines TDI

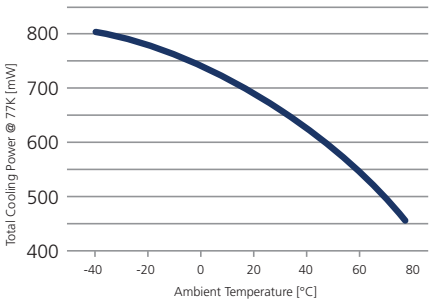
APPLICATIONS

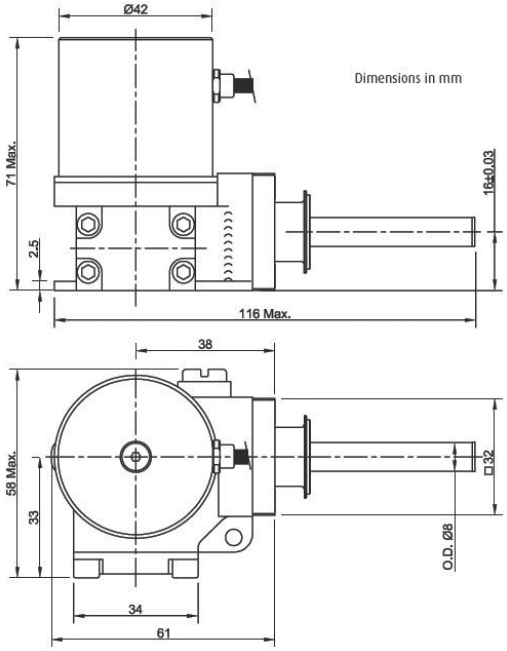
Hand Held Thermal Imagers
Missile Warning Systems
Thermal Weapon Sights
Border Surveillance
UAVs
Field Observations
Observation Payloads
IR Search and Track
Space
Airborne EVS
Thermography
Fire Control Systems - AFV / MBT
Gas Leak Detection
FTIR
Non Destructive Testing

Input Power Vs. Ambient Temperature



Typical Cooling Power @ 77K Vs. Ambient Temp.





SPECIFICATIONS

- Cooler Weight: 450 gr.
- Input Voltage: 12-16V or 18-28V
- Steady State Input Power:
  7Wdc@220mW, 77K
- Maximum Input Power: 17WDC
- Ambient Temperature Range:
  - Operational: -40°C...+85°C
  - Non-Operational: -56°C...+85°C
- Cooldown Time (250J @77K @23°C):
  5 min. Typ.
- MTTF > 10,000 Hours
- Meets Environmental Conditions per
  MIL-STD-810

Specifications are subject to changes without prior notice.

CONTACTS

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