

NICOLE



Hybrid cooling system (LN₂ / Electrical)

Application

The NICOLE hybrid cooling combines liquid nitrogen and electro cooling. Combination of these two cooling systems provides continuous operation for at least 10 months without liquid nitrogen refilling.

Complete set

- Stirling-cycle cryocooler
- Cryocooler controller
- 28l Dewar vessel
- Liquid nitrogen sensor and level monitor
- Pressure sensor with digital indicator

| Parameter | Value |
|---|-------------|
| Type of Stirling-cycle cryocooler | Free-piston |
| Cooler Power | 250 W |
| Dewar vessel volume | 28l |
| Liquid nitrogen holding time when cryocooler is operating (period between refilling)* | > 10 months |
| Cryocooler MTBF | > 45 000 h |

* In case of cryocooler failure cooling system remains functional, but periodic refilling of liquid nitrogen once per 18 days is required

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