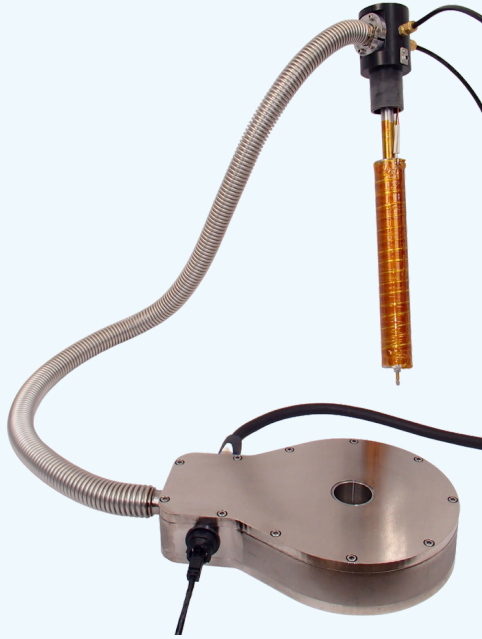


LN2 COOLED HTS SHORT SOLENOID



- 1 T solenoid magnet cooled by liquid nitrogen flow
- Low profile
- Low set-up costs
- Low operating costs
- Fast cool down
- Fast ramping
- Low vibration

Applications

- MOKE (Magneto-optic Kerr effect)
- Magnetic domain imaging
- Brillouin light scattering
- Magnetic circular dichroism
- Hysteresis loop plotting
- Scanning laser microscopy
- Hall effect measurements
- Variable temperature optical cryostat

Performance and versatility

- Fast cool-down <2 h
- Rapid ramping
- Operates in any orientation
- Low vibration
- Available 38 mm and 80 mm bores
- Low profile, excellent sample access
- Can be designed to accept third-party variable temperature sample probe

Optional poles

- Customisable range of user-changeable poles for specialist applications, with the option of adjustable pole gaps

Easy to use

- Operates from unpressurised liquid nitrogen (LN2) dewar
- Monitoring electronics ensure magnet safety

Easy to site

- Very compact, low-profile magnet
- Flexible metal bellows hose connecting magnet and LN2 dewar
- Low fringe without active shielding



HTS-110
1B Quadrant Drive, Waiwhetu
Lower Hutt 5010, New Zealand

☎ +64 4 570 8880
✉ info@hts-110.com
🌐 nz.linkedin.com/company/hts-110



LN2 COOLED HTS SHORT SOLENOID

Standard system includes

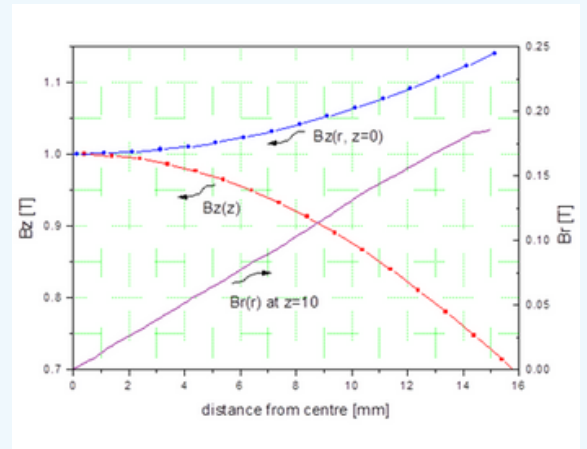
- Magnet sub-system with integrated cold-head
- Liquid nitrogen dewar, transfer hoses and vacuum pump for LN2 circulation
- Unipolar power supply
- Fast up/down field ramp
- Active magnet protection electronics linked to integrated temperature sensors

Options

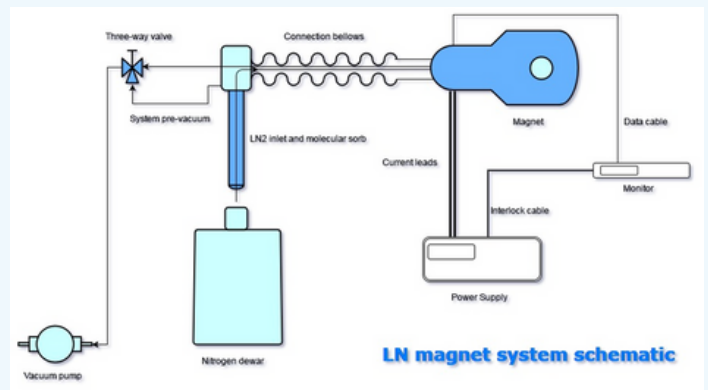
- Closed loop field control
- Unipolar supplies available in standard and high stability configurations
- Bipolar power supply
- Extended warranty
- Service plan

System Requirements

- Liquid nitrogen supply
- Single phase power for power supply
- Vacuum pump and monitoring electronics



Field profiles for LN40 model



Model	Bore size (mm)	Peak field (T)	Height (mm)	Cyrostat OD (mm)	Max. operating current (A)	Magnet mass (kg)
LN40	38	1	57	208	65	<15
LN80	80	1	100	250	55	<35

