CRYOGENIC
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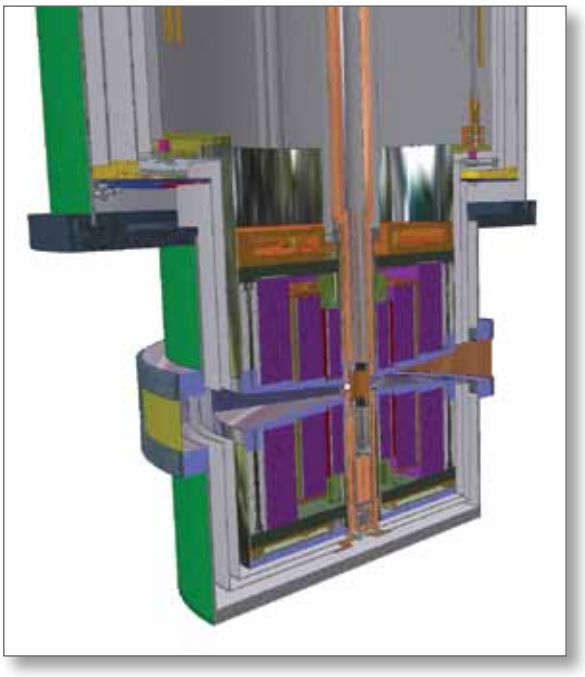
Tel: +44 (0)20 8743 6049
Fax: +44 (0)20 8749 5315
Email: sales@cryogenic.co.uk
www.cryogenic.co.uk

VERTICALLY ALIGNED 14 TESLA SPLIT-PAIR MAGNET FOR X-RAY SCATTERING

- Low-loss cryostat
- Goniometer mounted
- Beryllium windows for X-ray scattering
- +/- 5˚ access in vertical (Z) direction
- Horizontal (X-Y plane) access windows:
  10˚ - 60˚
  80˚ - 125˚
  } Symmetrical about Y-axis
- Ø20mm through-access in Y-direction
- Incorporated VTI 1.6-325 K
- Rotatable Probes and Parasitic He3 insert



Cross-section through magnet

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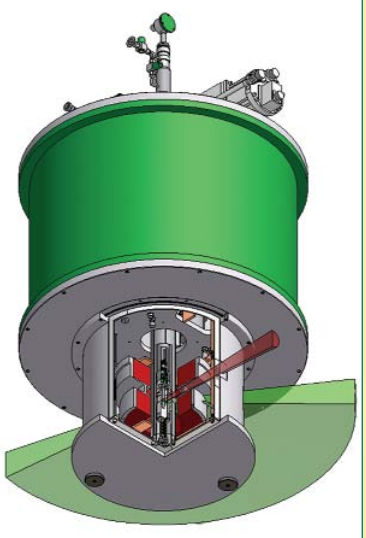
CRYOGEN FREE NEUTRON SCATTERING & BEAM-LINE MAGNET SYSTEMS

- Room-temperature bore or integrated cryogen-free 1.6 K-300 K VTI
- Symmetric superconducting split-pair magnets up to 10 T
- Asymmetric magnets for use in polarised neutron experiments up to 7 T
- Large apertures for incoming and scattered neutrons
- High purity thin Aluminium, Beryllium or Vanadium windows in cryostat outer, radiation shield, Magnet and VTI.
- Low vibration pulse tube allowing up to 30,000 hours of continuous operation.
- Easy to use: no cryogenic experience required
- Supplied with LabVIEW® software suite as standard.



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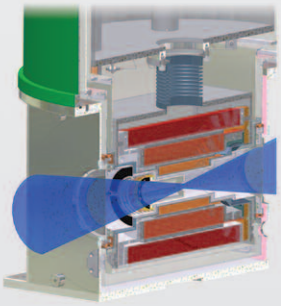
HIGH-FIELD MAGNETS FOR NEUTRON SCATTERING

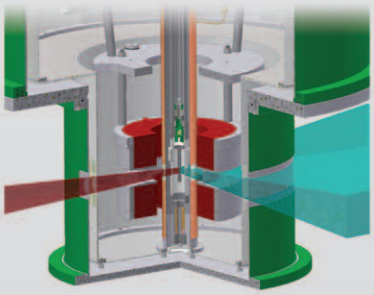
- Neutron scattering magnets for fields up to 17 Tesla
- Both liquid-helium cooled and cryogen-free options available
- Room-temperature bore or variable temperature insert
- Fully integrated solutions with specialised probes, electronics and control software



17 Tesla Neutron Scattering Magnet

- 17 Tesla horizontal solenoid
- 52 mm cold bore with 20° clear angle
- Side-loading sample stage (1.8 K - 300 K)
- Cadmium shielding
- Optional gate-valve and airlock for in-situ sample exchange

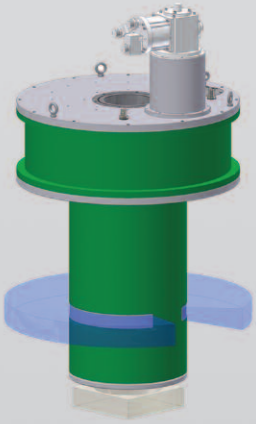
7 Tesla Cryogen-Free Split-Pair System

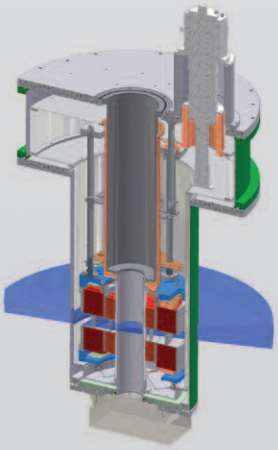


- 7 Tesla vertical split-pair with integrated 30 mm VTI and closed cycle helium gas circulation system
- Fully cryogen-free with G-M or pulse-tube cryocooler
- Well established design with minimal aluminium intersecting beam-path
- Specially designed sample probe for crystalline or powder samples

10 Tesla Cryogen-Free Vertical System

- Ultra-slim outer vessel
- 80 mm warm bore
- 300° scattering angle
- Tiltable to 10°





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5 TESLA CRYOGEN-FREE SPLIT PAIR MAGNET FOR MUON EXPERIMENTS

- High vacuum 100 mm RT bore with 5 way access between windings
- High homogeneity magnet with <100 ppm over 40 mm cylinder +/- 20 mm about the axis (perpendicular to the field)
- Actively shielded <2 G at 3 m in all directions
- Cooled by low maintenance twin pulse tube cryocoolers
- Comprehensive software control for autonomous operation

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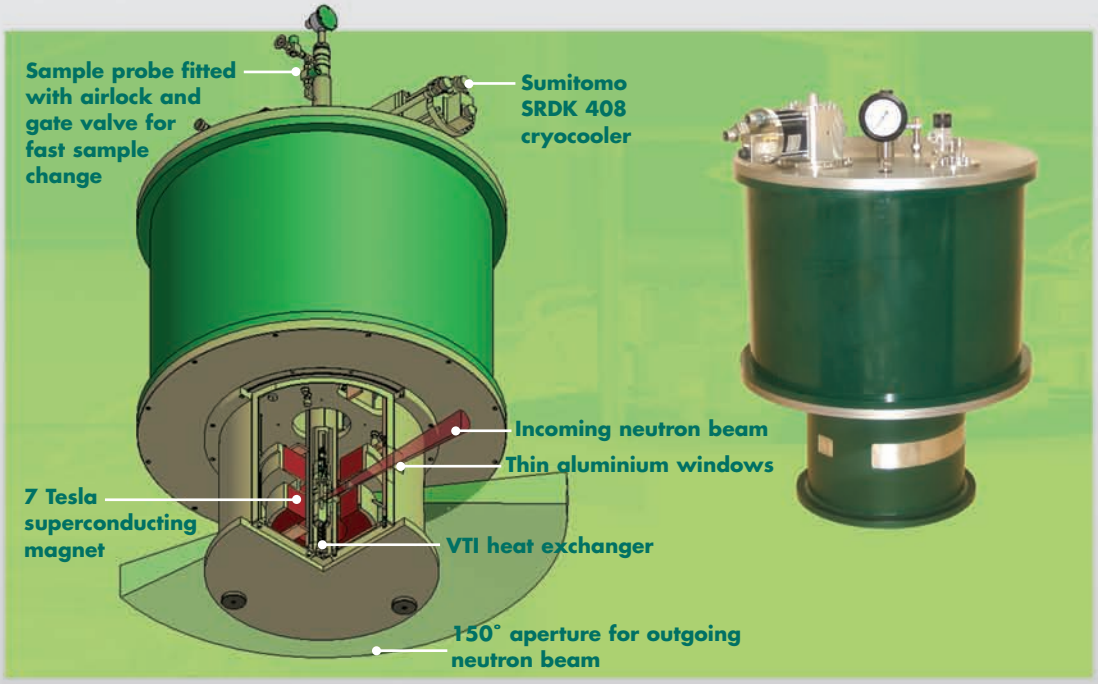
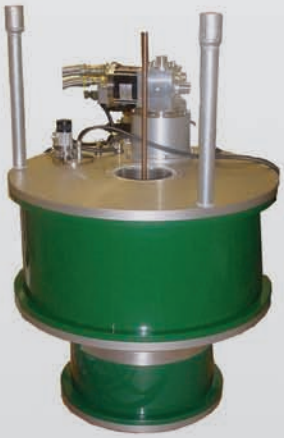
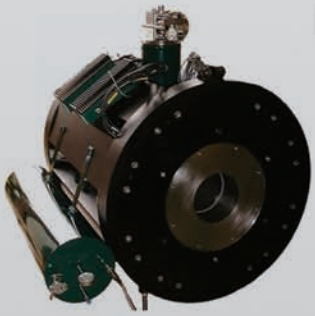
CRYOGEN FREE NEUTRON SCATTERING & BEAM-LINE MAGNET SYSTEMS







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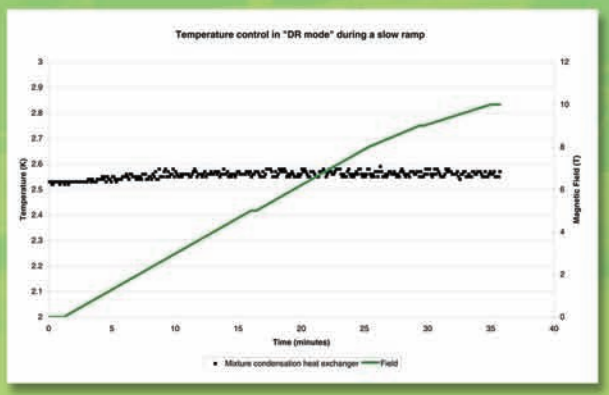
10 TESLA CRYOGEN-FREE SYMMETRIC SPLIT PAIR MAGNET



Split Pair Magnet for neutron scattering

- Integrated VTI temperatures down to 1.6 K
- Option for temperatures down to <300 mK with ^{3}He Insert
- Option for temperatures down to <25 mK with DR Insert
- 50 mm sample access in the VTI
- 330 degrees scattering angle

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