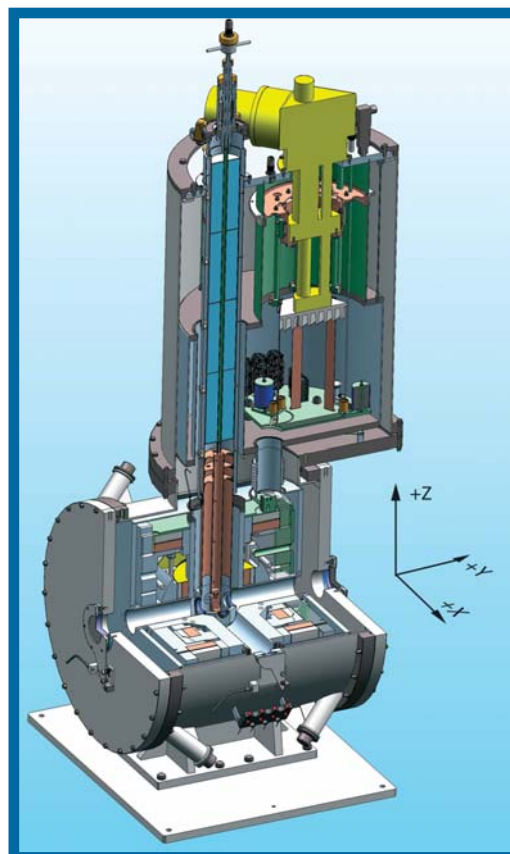


3D Vector Magnet System with optical/beam access in a Re-condensing Cryostat

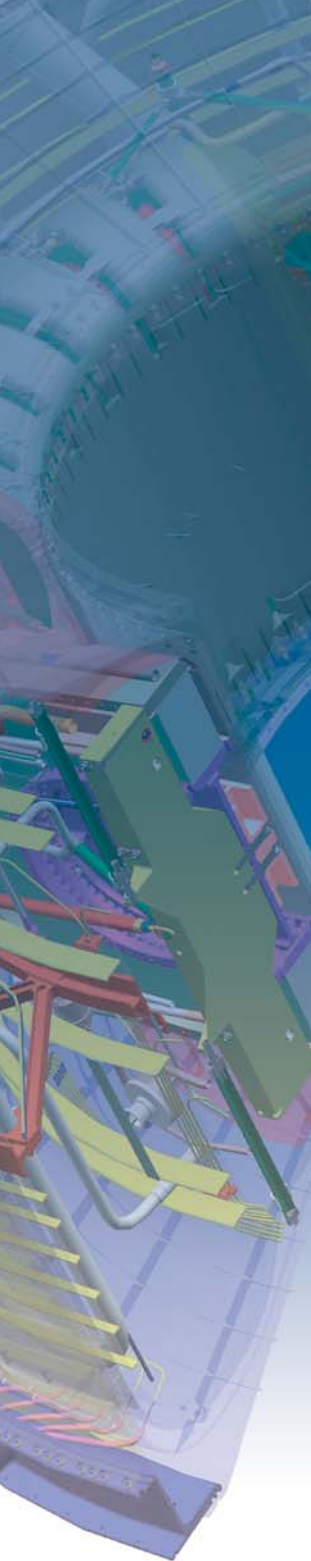
System includes:

- 3D vector magnet system with access in x-, y-, and z- directions.
- Sapphire windows on beam and transverse axes. Other window materials available on request.
- Re-condensing liquid Helium cryostat.
- Low mechanical vibration design.
- Helium exchange gas variable temperature insert.
- Vertical and rotational sample translation.
- System electronics.
- LabView® based computer control system.



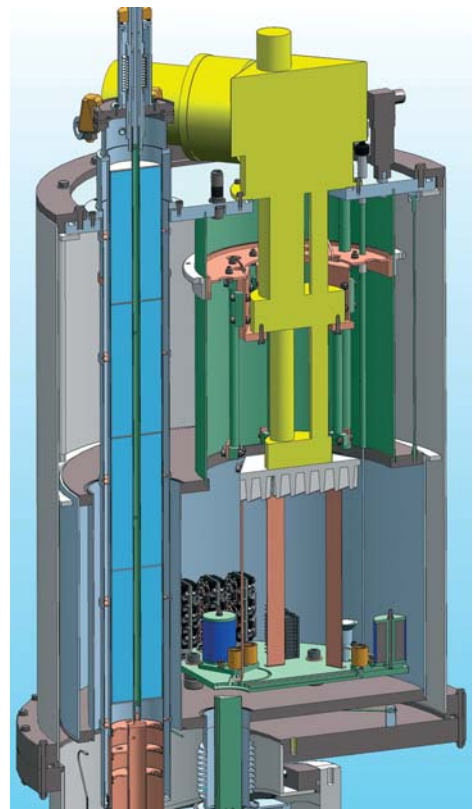
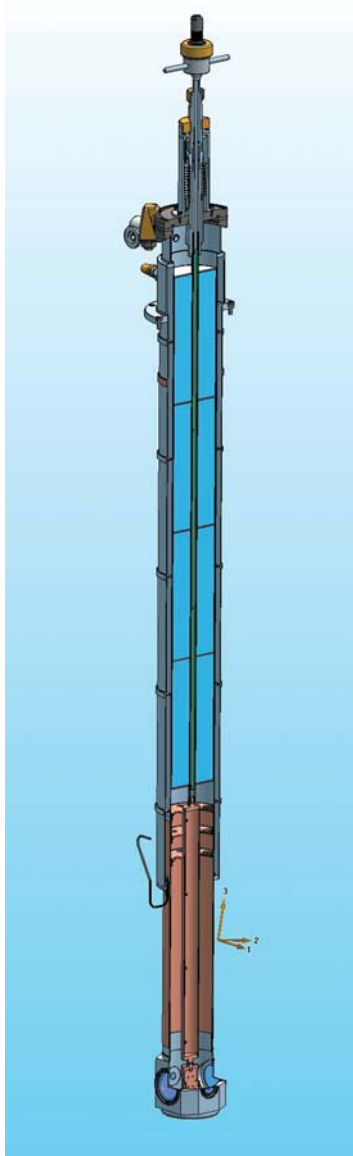
Magnetic Field specifications

Maximum Field on each axis at 4.2 K	2 Tesla
Maximum Field in vector mode during persistent operation:	2 Tesla
Sweep rate on major axes:	Up to 0.2T/min.
Magnetic field homogeneity over 10mm d.s.v.:	Z axis: 0.5% X axis: 2% Y axis: 1%
5 gauss line with all coils at maximum field:	Less than 350cm in all directions



LHe Cryostat Specifications:

Liquid helium hold time: during ramping and VTI operation	~30 days
Liquid helium hold time: static	Indefinite
Liquid helium refill volume:	55 litre



VTI Specifications:

VTI temperature range:	<1.8K - 300K
Sample environment:	Helium exchange gas
Sample access:	Vertically from above
Vertical translation range	±20 mm
Rotational range:	±180°
Electrical connections to the sample:	10 dc wires from room temperature

Contact us

You can contact Scientific Magnetics through our website www.scientificmagnetics.com We will be delighted to discuss your requirements for superconducting and cryogenics systems.

