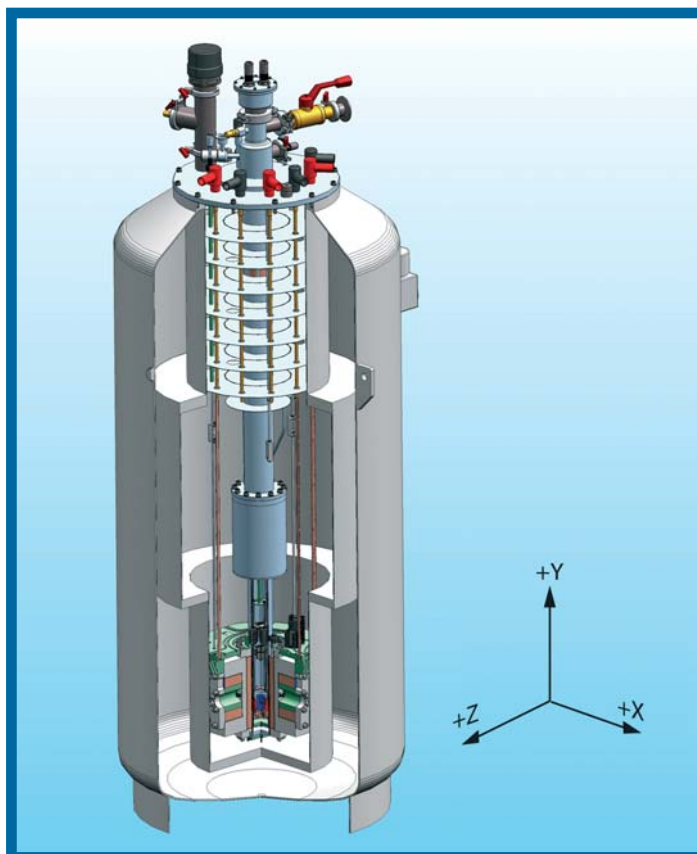


(1T,5T,1T) 3D Vector Magnet System

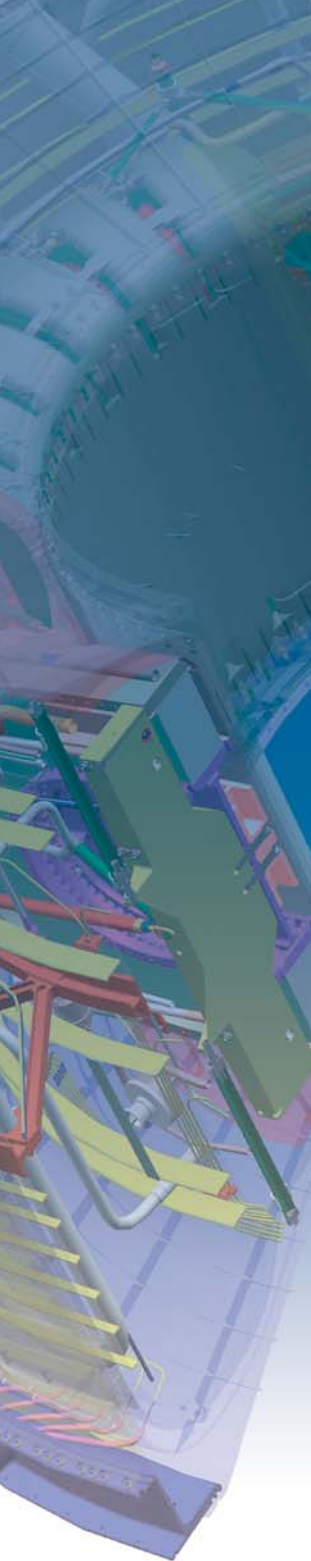
System includes:

- 3D vector magnet system with access in the vertical (y) direction.
- Vapour shielded low loss liquid helium cryostat.
- Variable temperature insert (VTI).
- System electronics.
- LabView® based computer control system.



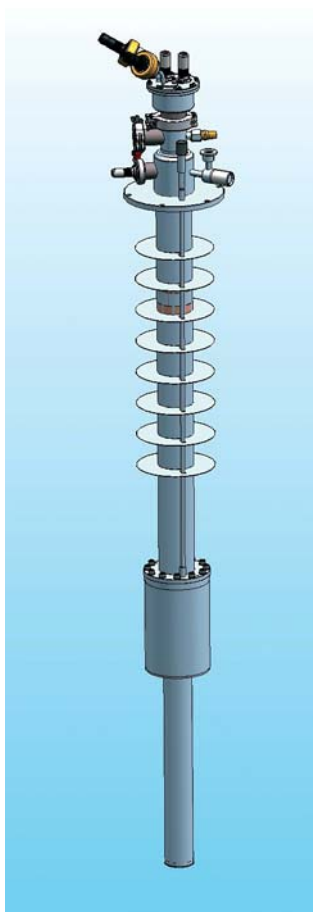
Magnetic Field specifications

Maximum Split-Pair Field at 4.2 K:	1T at 57A for X and Z coils
Maximum Solenoid Field at 4.2 K:	5 T at 57A for Y axis solenoid
Maximum ramp rate:	1.0 T/min for all coils
Clear solenoid bore diameter:	52 mm
Solenoid field homogeneity:	0.1% over 10 mm dsv
Split-Pair field homogeneity:	2.2 % over 10 mm dsv
Magnetic field (power supply) stability:	0.01% per hour (For improved performance, persistent switches can be fitted)
Stray field; 5 gauss line at maximum field:	1.1 m sphere from centre of magnet



LHe Dewar Specifications:

Liquid helium hold time: under all operating conditions	>60 hr
Static boil-off (magnet discharged, VTI passive):	600cc/hr
Liquid helium refill volume:	68 litre
Dimensions:	Ø61cm x 140cm



VTI Specifications:

VTI temperature range:	<1.5K - 370K
Sample environment:	Helium exchange gas
Sample access:	Vertically from above
Sample space diameter:	37 mm
Electrical connections to the sample:	24 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.

