

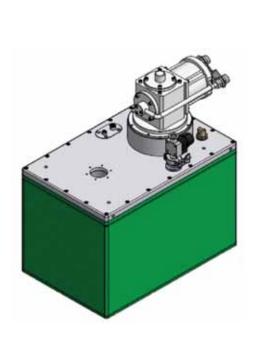
CRYOGEN-FREE DESK-TOP EPR SYSTEMS

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- Compact 3 T and 6 T cryogen-free magnets
- > Magnetic field along or transverse to vertical bore
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- EPR-grade homogeneity, EPR-grade drift
- Field sweepable while maintaining homogeneity
- Oryo-coolers with air-cooled compressors which run off single phase mains
- > LabVIEW based temperature diagnostics

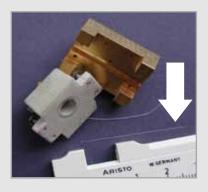


6 Tesla cryogen-free magnet





Probe head for W-band EPR (above) and associated resonator (below) with sample tube highlighted by arrow (courtesy Dr. A. Smirnov, North Carolina State University)



CRYOGEN-FREE VARIABLE TEMPERATURE INSERTS

For retrofitting to conventional low field EPR magnets		
Ergonomic design		
Elimination of liquid helium transfers		
Efficient thermal design		
Temperatures down to 2 K		
Custom sample probes available		

Custom sample probes available with RF and optical access



The VTI can be installed between pole pieces of standard EPR magnets and is compatibile with standard EPR probes.

www.cryogenic.co.uk



CRYOGEN-FREE DESK-TOP EPR SYSTEMS

Technical Specifications

Product	CF 3T split pair	CF 6T solenoid
Field strength	3Т	6 T
Homogeneity (*)	< 10 ppm	< 10 ppm
Shimming	As required	As required
Drift	0.1 ppm/hr	0.1 ppm/hr
Room Temperature bore	45 mm	45 mm
Field sweep (#)	-3 to +3 T	-6 to +6 T
Cryocooler	250 mW pulse tube	250 mW pulse tube
Compressor	Air cooled, single phase	Air cooled, single phase
Cooldown time	Overnight	Overnight

(*) Homogeneity measured by plotting field over 1 cm long x 1 cm diameter cylinder

(#) Homogeneity of 10 ppm maintained over entire sweep range. Assumes a high resolution 20 bit magnet power supply (optional extra).

Key Benefits of Cryogen-Free Technology

- No cryogenic experience required
- Turn-key operation
- Overnight cool-down
- Low cost of ownership
- Minimal maintenance
- Minimal quench hazards

Leaving you to focus on the science

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