

# Cryogen Free DR and high field magnet in shared vacuum space

## Specifications

Typical specification

- 50 mm 4 K magnet bore, 30 mm sample space in DR
- Suitable for use with Leiden DR type CF200, CF450, CF650 or CF1000 DR

3D Vector Field options	6T(z)/1T(y)/1T(x) at 4.2 K 9T(z)/5T(y)/1T(x) at 4.2 K
Vector Field	1T over $4\pi$ solid angle
Operating Current	60-80 A per coil
Vertical Homogeneity (z-axis)	0.1% over 10 mm DSV
Horizontal Homogeneity (x/y-plane)	1% over 10 mm DSV
Working Bore	$\geq 75$ mm

DR Specifications

Base Temperature with CF-100 DR	30 mK
Base Temperature with CF-400 DR	10 mK
Temperature Stability	$\pm 1$ mK < 100 mK and $\pm 1\%$ > 100 mK
Cooling Power	100 $\mu$ W(CF-100)/400 $\mu$ W(CF-400) at 120 mK
Working Space	$\geq 65$ mm diameter