



# Magnetic Measurements Ltd

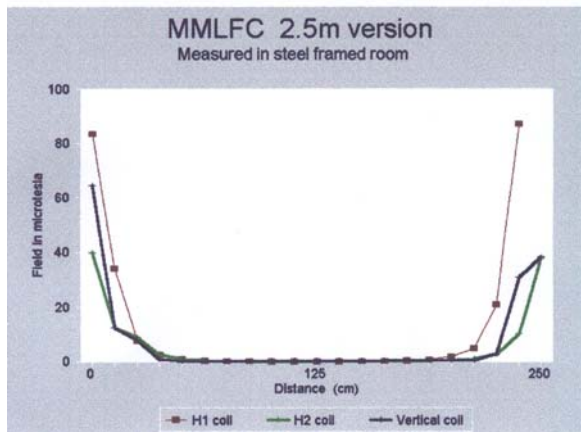
## Shielded Room (Low Field Cage) MMLFC

*2.5m MMLFC 3 axis fluxgate controlled shielded room with MMTD fast cycle Thermal Demagnetiser and SQUID Magnetometer.*



**Active shielding.** The MMLFC has a 3 axis power supply controlled by a 3 axis fluxgate magnetometer. The fluxgate magnetometer is used to maintain near zero magnetic field conditions inside the room. It has a fast response and will even reduce 50/60Hz magnetic noise.

**Large working volume.** Even when sited inside a steel framed building the MMLFC can provide a quiet low magnetic field over a very large volume.



**Adjustable.** When magnetic materials (computers, magnetometers etc.) are placed inside a shielded room they generate magnetic fields. With solid steel shielded rooms these 'internal' magnetic fields are trapped INSIDE the room. The MMLFC with its electronic control system can be adjusted to compensate for internal fields and ensure the lowest field conditions for your samples. Ideal for eliminating viscous magnetisation (VRM) acquisition during experiments.

**Safe and easy to use.** The MMLFC is supplied with floorboards and is ready to receive your equipment. It is manufactured from strong lightweight anodised aluminium and is easy to clean. The MMLFC is cleverly designed with counterbalanced horizontal coils that open to allow easy access. The 3 axis fluxgate control system maintains a near zero field even when the coils are open. The MMLFC has advantages over steel shielded rooms in that it provides a light airy working environment and has high safety factors including good visibility and audio communication, and quick access/exit in case of emergency. These are important safety features especially when working with cryogenic liquids (helium and nitrogen) that can quickly fill a closed room with deadly gas.



**Power and size.** The MMLFC can be supplied in any size up to 2.5m x 2.5m x 2.5m. Power consumption is <0.75KVA and 110 or 240V versions are available. The 3 axis fluxgate has a noise level of 3nT and alignment of better than 0.1°.

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