



"SPECIALIST SHIELDING SOLUTIONS"

NTD HIGH PERFORMANCE RF CHAMBERS

From our fully equipped workshop facility in the Northwest of England, NTD design and manufacture two specific type of high-performance RF shielded chambers:

NTD S100 High Performance RF chamber range: High performance modular shielding system based on standard 1m220mm x 2m440mm RF panels that and can be easily modified to suit any host building requirement. The **NTD S100** system and can also be easily upgraded to support office type cosmetic linings and ferrite/absorber performance enhancing anechoic linings. Shielding effectiveness performance +100db @ 10GHz. This is the ideal solution providing a high level of shielding performance from 10kHz up to 10GHz.

MODE	FREQUENCY RANGE	ATTENUATION
Magnetic	10KHz	60db
Electric	1MHz	100db
Plane wave	400MHz	100db
Plane wave	1GHz	100db
Microwave	10GHz	100db

NTD X100: Ultra High-Performance RF chamber range: This is the perfect chamber solution when a higher level of shield performance is required above 10Ghz. Requirements when standard panels will not fit. The **NTD X100** system can also support office type cosmetic linings and ferrite/absorber performance enhancing anechoic lining. Shielding effectiveness performance +100db @ 40GHz. This is the ideal providing a very high level of shielding performance above 10GHz.

MODE	FREQUENCY RANGE	ATTENUATION
Magnetic	10KHz	60db
Electric	1MHz	100db
Plane wave	400MHz	100db
Plane wave	1GHz	100db
Microwave	10GHz	100db
Microwave	40GHz	100db

Due to our extensive knowledge and expertise NTD can successfully integrate some off or all the below facilities and communications into any design or variant of either the **NTD S100** or **NTD X100** RF high performance RF shields.

- Single and three phase high performance AC/DC RF power filters/power supplies including 230v, 16A, 32A, 63A, 100A and 200A.
- LED low interference/interference free sensor activated lighting and emergency stops to any/all designated power circuits.
- Digital and or analogue telephone filters providing multiple lines.
- Data/network cabling and integrated connection ports.
- Media conversions packs over fibre: LAN, HDMI, USB, DB 25.
- Fibre optics cables and high-performance pipes/penetrations.
- All manner of high-performance connectors RF and others.
- RF power/combination filters for air-conditioning and HVAC systems.
- VESDA Fire detection and suppression systems including specialist RF shielded pipe penetration.
- RF shielded cameras and monitoring systems.
- Water cooling pipes and pneumatic controls.
- MAPS systems: Turntables, masts and controllers.
- Tables/Benches ESD, automotive, low dielectric table.
- Test equipment and programmable attenuators.