3m Compliant EMC Anechoic Test Chambers (Semi-Anechoic)



Shaped Around Your Products

Our 3m Compliant EMC Anechoic Test Chambers are designed and manufactured to meet the dimensions, weight and required test standards of your products. With an external height of 5.5 meters, the test chamber can perform sweeping height antenna measurements from 1.0 to 4.0 meters whilst seamlessly coordinating with the flush-mounted turntable installed in the test chamber.

The modular shielding system enables the test chamber to be designed for larger product ranges by increasing the dimensions in 100mm increments. A large range of high-performance accessories allows all services and penetrations to be integrated into the shield, without compromising the shielding performance.

All test chambers require a point of entry. The design and manufacture of the shielded door is critical to both ease of use and shield effectiveness. Each shielded door is handcrafted in Great Britain to the exact dimensions required. This ensures the equipment under test can be easily transported inside the test chamber regardless of weight or size. With a full range of ultra-low friction manual swing, pneumatic or sliding doors entering and exiting a test chamber has never been easier.







CHOOSE THE TEST CHAMBER FOR

Electrical and electronic devices must comply with Electromagnetic Compatibility (EMC) standards for both radiated emissions and immunity in most countries. Our 3m Compliant EMC Anechoic Test Chambers ensure compliant emission and immunity tests can be performed to a wide range of standards.



CE Marking EMC directive and FCC



Compliant Compliant Radiated Emission -Electromagnetics interference (EMI) to CISPR 16-1-4/ EN55016-1-4



Immunity Compliant radiated immunity -electromagnetic susceptibility (EMS) to EN/IEC6100-4-3



CISPR Standards

Compliant for CISPR 32 (multimedia), CISPR (Medical) and CISPR 25 (Vehicle) standards



HIGH-PERFORMANCE ANECHOIC LINING

Ferrite Tiles & Absorbers – The walls and ceiling of the test chamber are precisely lined with the latest generation gapless Hybrid Pyramid absorbers and Ferrite tiles. The Pyramidal absorbers are precisely doped to ensure a smooth transition between the high performance of the Ferrite tiles at lower frequencies to the Pyramidal absorbers in higher frequencies. The "plug-in" base system of the absorbers means that individual absorber cones can be replaced if accidentally damaged during operation of the test chamber. This reduces the cost of repairs and time taken for the test chamber to become fully operational again.

Frequency Test Range

30MHz	_{High} 18GHz	optional 40GHz
Minimum Dim	ensions	
_ength	High	Height
9.00m	6.00m	6.00m

SHIELDING EFFECTIVENESS TESTED TO EN50147-1



3M COMPLIANT EMC ANECHOIC TEST CHAMBERS (SEMI)

Radiated immunity - Compliant to IEC/EN 61000-4-3 80 MHz (18GHz optional).

Shield effectiveness to EN50147-1.

Bespoke solution upon request. Test facility can be configured to your exact requirements.

Industry-leading low maintenance shielded door with copper beryllium knife edge seals.

Latest Technology high-performance GF 102 ferrite to all walls, ceiling and partial floor covering.

Radiated emissions - Compliant to CISPR 16-1-4 frequency range of 30 MHz to 6GHz (18 GHz optional).

Design and manufactured to the highest standards in Great Britain.

Up to 3 meters measuring distance between the Antenna and EUT.

Lighting, power, filter, penetration and static ventilation panels all as standard.

Moulded polystyrene pyramidal Hybrid Absorbers to all walls, ceiling and partial floor covering. (Absorber coverage as far as physically possible).

External Dimensions 9m(L) x 6m (W) x 5.5m (H)*

Shield Modular 2mm steel "pan" shield.

Filters 1 x 32A 230V Single Phase (2 line).

Access Ramp This feature is optional. Shielded Pedestrian Door (Clear Opening) 1000mm (W) x 2000mm (H)*

Frequency Test Range 30 MHz to 18 GHz (40GHz optional).

Penetration Panel Connectors 2 x Precision N type, & 2 x Fibre

Lighting 4 x LED Lighting 1 x Emergency Light

Steel Structure Self-supporting structure to industry standards.

Floor Loading (Standard) 500kg/m^{2*}

Honeycomb Vents 2 x 300mm (W) x 300mm (H) (static air)

Power Distribution 4 x 230V AC DSSO Sockets.

> 3m EMC Anechoic Chambers Additional Options Include: Turntable, mast, controller, Air Conditioning/ HVAC, Anti Chamber (control room), Fume extraction, Fire detection, CCTV, White caps to absorbers, additional filters & Audio communication.

*All dimensions and quantities can be altered upon request (subject to compatibility).



