

# 5m Compliant Semi-Anechoic EMC Test Chamber



**GLOBAL EMC**  
ELECTROMAGNETIC SHIELDING & ANECHOICS EST. 1994

## Test More, Wait Less

The advantage of size. The 5-meter Semi-Anechoic EMC Test Chamber (5m-SAC-C) is purposely designed for commercial EMC testing of larger EUT's (Equipment Under Test). Combining compliant emissions and immunity testing into one facility, the 5m-SAC-C provides the complete solution to ensuring your products meet both national and international standards for EMC compliance

The larger test distance allows a chamber to be installed that can accommodate larger diameter turntables and bigger EUT's (Equipment Under Test). This offers a cost-effective solution as the chamber can be used for a variety of standards to give you a multi-functional solution to your testing requirements.

The 5m Semi-Anechoic EMC Test Chamber is designed and manufactured to meet the dimensions, weight and required test standards of larger products. With an external height of 6.0 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.

## Our 5m Semi-Anechoic EMC Test Facility

### 5M

A 5-meter test distance between the antenna and equipment under test is available in this test chamber. Emission limits from 3 and 10-meter measurement distance can be calculated at 5 meters using guidance from the standard.

### SEMI-ANECHOIC

The walls and ceiling are lined with anechoic material to absorb reflections of electromagnetic waves inside the chamber. This creates a stable and repeatable environment to perform testing, mimicking an open area test site (OATS).

### EMC

Electromagnetic compatibility or EMC testing gives the manufacturer of a product the ability to demonstrate the ability of their product. That it can function without causing interference to other devices (Emissions) and can also work satisfactorily in the proximity of other electrical and electronic devices (Immunity). The 5m-SAC-C can be used for both Immunity and Emission testing.

### TEST FACILITY

Having a smaller footprint than larger 10-meter compliant 10m-SAC-C test chambers, the 5M Semi-Anechoic EMC Test Chamber provides a superb solution for a compliant EMC test chamber. The increased volumetric space from a 3 meter compliant 3m-SAC-C provides space for larger turntables and greater NSA performance.

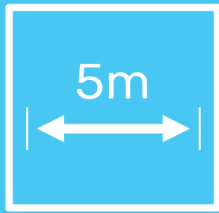


For more information on Global EMC, visit our website by scanning the QR code

SCAN ME

## 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. This 5m Semi-Anechoic EMC Test Chamber ensures compliant emission and immunity tests can be performed to a wide range of standards. The increased size bridges the gap between the large 10-meter compliant 10m SAC and a smaller 3-meter compliant 3m-SAC-C. This chamber can also be used as a 3-meter measurement distance chamber for larger EUT's.



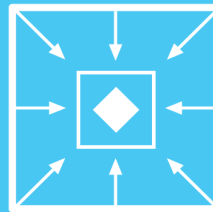
### 5 Meter Test

Measurements of 5.0, 3.0 and 1.0 meters between the antenna and Equipment Under Test (EUT).



### Immunity

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



### Components

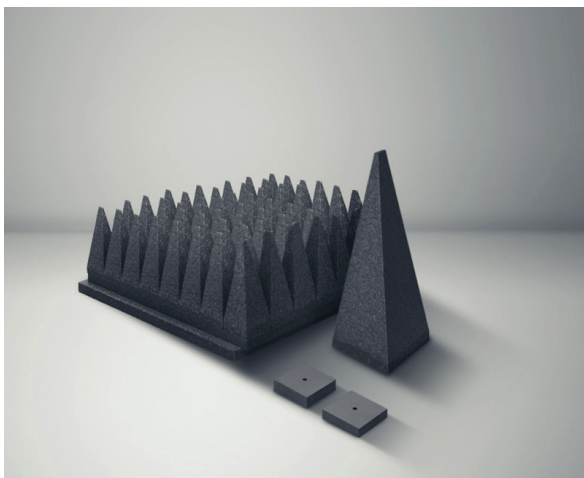
Smaller table top products and EUT's that do not require wheeled access into the test chamber.



### Fully Anechoic

Fully Anechoic tech chamber with the latest generation anechoic absorbers to all walls, ceiling and floors.

## HIGH-PERFORMANCE ANECHOIC LINING



**Ferrite Tiles & Absorbers –** The latest generation Hybrid Pyramid Absorbers are installed to compliment ferrite tiles. This provides a broadband anechoic performance, whilst using as little of the internal space as possible.

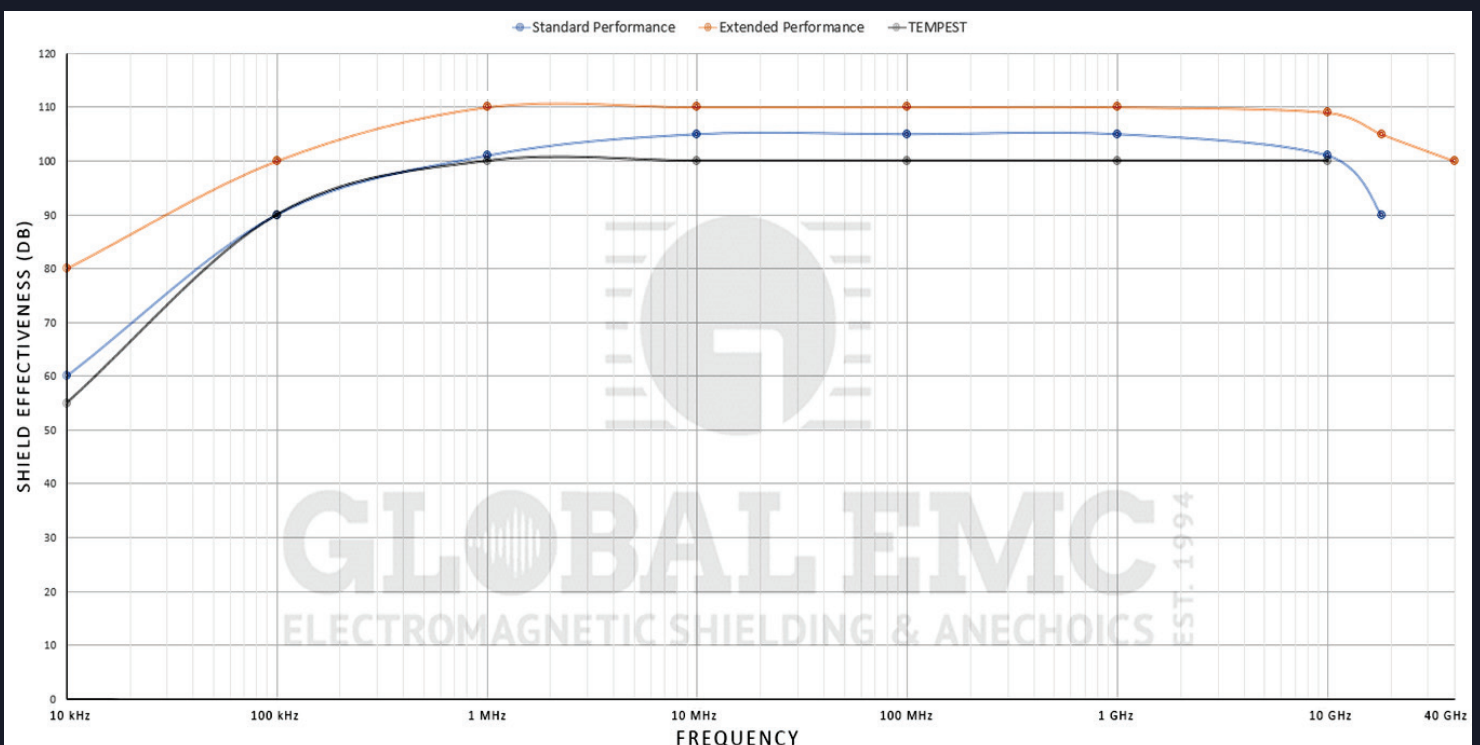
### Frequency Test Range

<small>Low</small>	<small>High</small>	<small>Optional</small>
30MHz	18GHz	40GHz

### Minimum Dimensions

<small>Length</small>	<small>Width</small>	<small>Height</small>
12.00m	7.00m	6.00m

## SHIELDING EFFECTIVENESS TESTED TO EN50147-1



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## 5M COMPLIANT SEMI-ANECHOIC TEST CHAMBER

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).

Designed and manufactured to the highest standards in Great Britain.

3m and 5m measuring distance.

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  
12m (L) x 7m (W) x 6m (H)\*.

Shielded Pedestrian Door (Clear Opening)  
1000mm (W) x 2000mm (H)\*.

Steel Structure  
Self-supporting structure to industry standards.

Shield  
Modular 2mm steel "pan" shield.

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

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

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

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

Access Ramp  
This feature is optional.

Floor Loading (Standard)  
500kg/m<sup>2</sup>\*.

Double Door/ Sliding Door  
To customer requirements\*.

Lighting  
4 x LED Lighting 1 x Emergency Light.



Additional Options Include:  
Turntable, Mast, Controller, Air Conditioning/HVAC, Anti Chamber (Control room), Fume Extraction, Fire Detection, CCTV, Whitecaps to Absorbers, Additional Filters & Audio Communication.

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