

EMC - 3

3 Meter Anechoic EMC Test Chamber



- Hybrid anechoic material using UH-series polypropylene absorber
- High performance - minimum space
- Flexible, modular construction system

SOLUTION FOR

Full compliance testing solution EMC testing for testing radiated emissions or radiated immunity.

Main features

- SmartShield compact modular design & construction
- SmartShield doors
- HyPyr-Loss™ hybrid anechoic material
- Frequency range: 30 MHz - 18 GHz (easily extended to 40 GHz)
- Full compliance radiated emissions testing at a 3 m distance
- Quiet zone up to 2 m diameter
- Full compliance radiated immunity testing as per IEC 61000-4-3
- Shielding effectiveness as per MIL-STD-295/IEEE 299 up to 100 dB attenuation
- Customized configurations and dimensions available
- Turnkey chamber and system options available

This is the ultimate 3 meter anechoic chamber ensuring full compliance emission and immunity testing. The high performance and compact dimensions are achieved by the use of our Smart-Shield high performance shielding system combined with our impedance-matched, hybrid anechoic material: HyPyr-Loss™ UF ferrite and UH-series polypropylene absorber.

When conducting EMC testing and certifying products to be sold into the marketplace, one needs to use a chamber that fully complies with the applicable EMC test standards. The EMC-3 allows full-compliance to these standards for testing of radiated emissions and radiated immunity at a 3 m test distance.

The advanced technology in our HyPyr-Loss™ hybrid materials, a unique combination of ferrite tiles & polypropylene pyramid absorbers, optimizes EMC measurement performance. These closed-cell absorbers require increase repeatability, reduce the volumetric space, and resist age-related deterioration.

The advantages of our unique SmartShield High Performance shielding system are significant with performance in excess of 100 dB for most frequencies. The construction features of modular panels with RF connecting joints enable an easily demountable chamber. This is a major benefit for our customers where future relocations are necessary.

MVG brings unparalleled expertise in the field of electromagnetics, and in chamber design & construction. We use specialized design tools such as Solidworks 3D, allow us to offer our customers customized, turnkey capabilities. We are able to modify and develop our existing designs to meet any requirement you may have. With customer satisfaction as priority, our advanced development and production facilities, accredited to ISO 9001 & ISO 14001, ensure all products achieve low maintenance and long life.


PRODUCT CONFIGURATION (Typical)

Dimensions (shielding)	8.9 m x 5.6 m x 5.4 m (H)
Performance Range	26 MHz to 18 GHz (40 GHz options available)
Emission performance	CISPR 16 full compliance 3 m testing
Immunity performance	IEC 61000-4-3 full compliance testing
Standard equipment	<ul style="list-style-type: none"> • SmartShield RF shielding • HyPyr-Loss hybrid anechoic treatment • 0.9 x 1.2 m (H) door • 2.0 m flush-mount turntable, 2000 Kg load capacity • Antenna mast, 1- 4 m • Attenuvent waveguide vents (26.5 GHz, 300 mm x 300 mm) • Penetration panel (300 mm x 300 mm) • Raised floor access box (300 mm x 300 mm) • Feed-through connectors • Powerline filters • LED spotlights • Conduit, wiring, switches
Optional accessories	<ul style="list-style-type: none"> • Customized doors: sizes, semi-auto, fully auto • Customized ramps & zero-threshold entry • Test benches • CCTV & audio options • HVAC & exhaust extraction • Fire detection/suppression • Ante rooms • Turnkey EMC systems • Third party testing (NSA, Svswr, FU)

TECHNICAL DATA

Full compliance testing for Radiated Emissions	<ul style="list-style-type: none"> • CISPR 16-1-4 • ANSI C63.4 • FCC parts 15 & 18 • CISPR Commercial Product Standards (13, 14, 15, 22, 24, 32, 35, and more) • Customized options available
Full compliance testing for Radiated Immunity	<ul style="list-style-type: none"> • IEC 61000-4-3/EN 61000-4-3 • Commercial product standards
Quality standards	<ul style="list-style-type: none"> • ISO17025; ISO9001 • Environmental standard ISO 14001



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