

# EMC - 3C

## 3 Meter Compact Anechoic EMC Test Chamber



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

### SOLUTION FOR

EMC test sites requiring pre-compliance emission and full compliance immunity testing

### 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)
- Pre-compliance radiated emissions testing
- 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 compact 3-meter test range will fit into test areas of limited space and offers pre-compliance emission and full compliant immunity testing. Emission testing uses a shortened antenna mast and accommodates quiet zones of up to 1.5 m with very repeatable results that correlate well to a full-compliance test lab. The high performance and compact dimensions are achieved by the use of our SmartShield high performance shielding system combined with our impedance-matched, hybrid anechoic material: HyPyr-Loss™ UF ferrite and UH-series polypropylene absorber.

When designing products which are required to conform to EMC standards, it is highly recommended that potential problems are resolved early in the process. Pre-compliance testing is a cost effective way of diagnosing and removing possible problems in the design before the necessary full compliance testing and product certification. Early diagnosis can dramatically reduce R&D costs, manufacturing costs, and time to market.

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 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, which 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)	7 m x 3.0 m x 3.0 m (H)
Performance Range	26 MHz to 18 GHz (40 GHz options available)
Standard equipment	<ul style="list-style-type: none"> <li>• SmartShield RF Shielding</li> <li>• HyPyr-Loss Hybrid Anechoic Treatment</li> <li>• 0.9 x 1.2 m (H) door</li> <li>• 1.2 m flush-mount turntable, 500 kg load capacity</li> <li>• Antenna Mast (1 – 2.4 m of travel)</li> <li>• Attenuvent waveguide vents (26.5 GHz, 300 mm x 300 mm)</li> <li>• Penetration Panel (300 mm x 300 mm)</li> <li>• Raised Floor Access Box (300 mm x 300 mm)</li> <li>• Feed-through Connectors</li> <li>• Powerline Filters</li> <li>• LED Spot Lights</li> <li>• Conduit, Wiring, Switches</li> </ul>
Optional accessories	<ul style="list-style-type: none"> <li>• Customized doors: sizes, semi-auto, fully auto</li> <li>• Customized Ramps</li> <li>• Test benches</li> <li>• CCTV &amp; Audio Options</li> <li>• HVAC &amp; Exhaust Extraction</li> <li>• Fire Detection/Suppression</li> <li>• Ante Rooms</li> <li>• Turnkey EMC Systems</li> </ul>

**TECHNICAL DATA**

Pre-compliance testing for Radiated Emissions	<ul style="list-style-type: none"> <li>• CISPR 16-1-4</li> <li>• ANSI-C63.4</li> <li>• FCC parts 15 &amp; 18</li> <li>• CISPR commercial product standards (13, 14, 15, 22, 24, 32, 35, and more)</li> <li>• IEC 61000-4-3 (full compliance)</li> </ul>
Quality standards	<ul style="list-style-type: none"> <li>• ISO 17025</li> <li>• ISO 9001</li> <li>• ISO 14001</li> </ul>



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