

MIL STD Chamber

EMC-MIL STD Anechoic EMC Test chamber



- Minimum space - truncation of absorber tip
- Hybrid Absorber technology
- Absorbers for high power applications

SOLUTION FOR

EMC test sites designed for testing in accordance with the MIL STD 461 military standard

Main features

- Designed to meet MIL STD 461 and RTCA DO160 requirements
- Dimensions may vary depending on test bench or EUT sizes
- Customized dimensions & absorber configurations available
- High power absorber options available for radar and other applications
- Commercial testing option with HyPyr-Loss™ ferrite and hybrid lining available
- Optimized performance meets specified absorption specifications shielding effectiveness as per MIL-STD-285/IEEE-299 > 100 dB attenuation
- Modular design & construction
- Turnkey system and chamber options available

The MIL-STD-461 chamber is designed for benchtop testing using a typical bench configuration of 2.5 m x 1.0 m. It can also be used for smaller, free-standing EUTs or customized for large EUTs. This unique design requires less volumetric space than traditional absorbers and still provides the space required to have the specified distances between the EUT or test antenna and the walls, ceiling, and floor. The polypropylene absorber does not undergo the typical age-related deterioration of typical "foam" polyurethane absorbers. The UH-series, polypropylene absorber is suitable to higher fields found in most MIL-STD-461 testing.

When conducting EMC testing and certifying products for military or aerospace applications, the MIL-STD-461 Chamber allows the tester to meet the standards as written in the MIL-STD-461 or RTCA DO 160 standards. The MVG MIL-STD-461 chamber gives the performance and required dimensions in a compact volume.

The chambers are designed to use our broadband or hybrid our HyPyr-Loss™ material (UH material). The advanced technology in our polypropylene provides excellent EMC measurement performance and exceeds the minimum absorption requirements specified in both the MIL-STD-461 and the RTCA DO 160. We can customize the absorber configuration and coverage to optimize performance. Additionally, 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 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 configurations

Dimensions (shielding)	4.6 m x 4.1 m x 3.0 m (H)
Performance Range	10 kHz to 40 GHz
Standard equipment	<ul style="list-style-type: none"> • SmartShield RF shielding • HyPyr-Loss hybrid anechoic treatment • 0.9 x 1.2 m (H) door • 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 • Third party testing (NSA, Svswr, FU) • Fire detection/suppression • Ante rooms • Turnkey EMC systems

Technical data

Full compliance with	<ul style="list-style-type: none"> • MIL-STD-416 • RTCA DO/160
Quality standards	<ul style="list-style-type: none"> • ISO 17025 • ISO 9001 • ISO 14001



Powered by



Contact your local sales representative for more information

www.mvg-world.com
sales@microwavevision.com