

# / CISPR25 Chamber

## CISPR25 Automotive Component Test Chamber



- Minimum space
- Hybrid anechoic material using UH-series polypropylene absorber
- Meets CISPR25, Annex J performance requirements

### SOLUTION FOR

EMC test sites designed for testing as per CISPR25 or ISO 11452-2

### / Main features

- Designed to meet CISPR25 and ISO 11452-2 automotive test standards
- Typical dimensions:
  - 5.6 m x 5.1 m x 3.5 m (H)
  - Inside, shield-to-shield dimensions
  - Dims based on typical 2.5 m x 1.0 m test bench
  - Customized sizes available
- Absorber configuration based on HyPyr-Loss, hybrid anechoic material: MVG ferrite tiles + UH30 polypropylene absorber
- Meets absorber attenuation requirements
- Optimized performance:
  - 6 dB reflectivity from 70 MHz to 2 500 MHz
  - Long Wire Chamber Validation 150 kHz-1 GHz as per CISPR25, Annex J
  - Shield effectiveness as per MIL-STD-285 / IEEE -299 > 100 dB of attenuation
- Options available for customized dimensions, high power, high load capacities and more
- Turnkey system and chamber options available

The CISPR25 chamber is designed for benchtop testing using a typical bench configuration of 2.5 m x 1.0 m. The unique design requires less volumetric space than traditional absorbers and still provides the volume required to have the requisite distances between the EUT and the walls and the absorber and the walls & ceiling. The polypropylene absorber does not undergo the typical age-related deterioration of the typical “foam” polyurethane absorbers. The UH-series, polypropylene absorber is also applicable to the radar pulse testing required in some automotive test standards.

## Product configurations

Dimensions (inside, shield-to-shield)	5.6 m x 5.1 m x 3.5 m
Performance Range	9 kHz to 18 GHz (40 GHz options available)
Standard equipment	

### TYPICAL DELIVERABLES:

- Design and Manufacturing
  - Smartshield Pan-style Shielding
  - Internal shield to shield dimensions - 5.6 m (L) x 5.1m (W) x 3.5 m (H)
  - Supporting Steelwork
- 300 mm Raised Floor
- Vinyl Floor Tiles
- Door:
  - 1 - Man Door 0.9m (W) x 2.1m (H) Single Knife Edge, Manual Door w/ interlock Switch
  - 1 - Door Maintenance Kit
- Attenuvents (26.5 GHz, 300 mm x 300 mm)
- Penetration Panels
- Power Line Filters (EUT and Standard Convenience Outlets)
- LED Lights
- Emergency Bulkhead lighting
- Conduit, wiring, switches
- Hyperloss Ultra Hybrid UH30 + ferrite tiles
- Customer logo on white caps
- Installation
- Shield Attenuation Testing three (3) Frequencies up to 18 GHz per MIL-STD-285 (IEEE-STD-299)
- OPTION: Annex J; Long-Wire Testing
- OPTION: CISPR25 Test Table w/ copper ground plane & grounding bar

## Technical data

Full compliance with the reflectivity requirements	<ul style="list-style-type: none"> <li>• CISRP25 absorber attenuation specifications</li> <li>• CISRP25, Annex J performance requirements</li> </ul>
Full compliance testing for Radiated Immunity	<ul style="list-style-type: none"> <li>• ISO 11452-2</li> </ul>
Full compliance testing for Radiated Emissions	<ul style="list-style-type: none"> <li>• CISPR25</li> </ul>
Quality standards	<ul style="list-style-type: none"> <li>• ETSI - UKAS accredited</li> <li>• ISO17025; ISO9001</li> <li>• Environmental standard ISO 14001</li> </ul>

## Performance

Fully compliant with the reflectivity requirements of CISPR25 and ISO 11452-2. Also, meets the performance specifications of Annex J, Long Wire evaluation.

### Hybrid Absorber Typical Performance:

		UH30	
Height	cm	30	
Absorption @ Normal Incidence	@ 30 MHz	dB	21.5
	@ 100 MHz	dB	21.0
	@ 300 MHz	dB	16.5
	@ 500 MHz	dB	18.2
	@ 700 MHz	dB	22.7
	@ 1 GHz	dB	20.4
	@ 3 GHz	dB	17.3
	@ 6 GHz	dB	21.6
	@ 10 GHz	dB	25.6
	@ 13 GHz	dB	26.4
@ 18 GHz	dB	37.2	



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