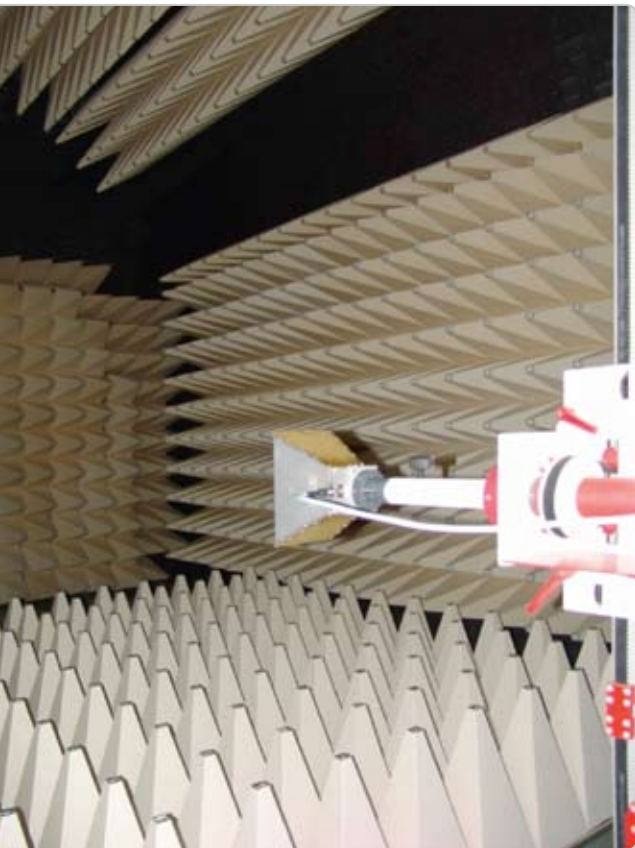


# SEMI ANECHOIC CHAMBER – SAC-3 / -5 Plus

Anechoic Chamber for emission measurements acc. to EN 55022 / CISPR 22 class B and immunity tests acc. to IEC/EN 61000-4-3



## Short Description

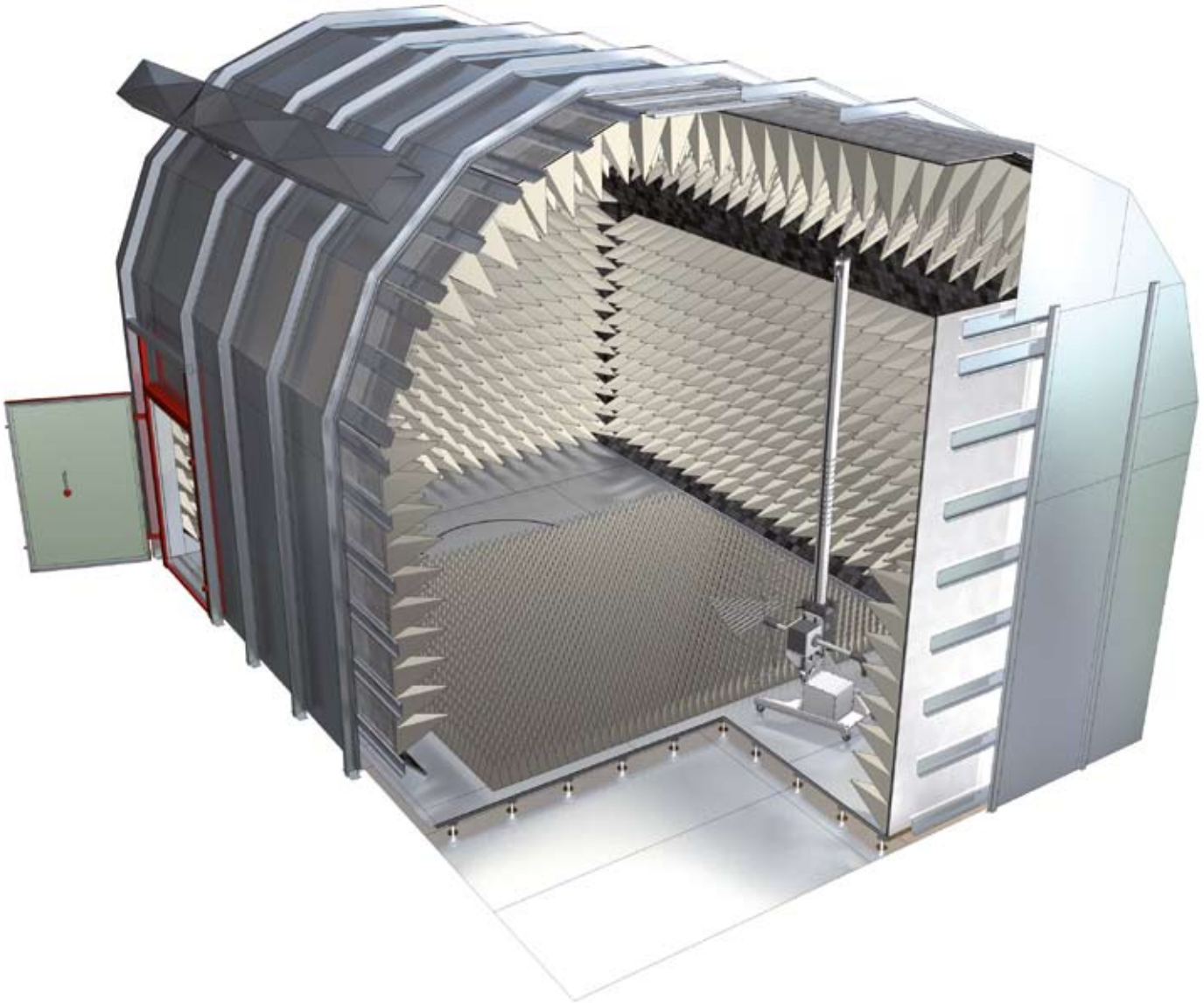
The SAC-3 / -5 Plus is a full-compliant semi anechoic chamber for a measuring distance of 3 or 5 meters. It's dome shaped roof as well as it's optimized absorber layout, with ferrite and partial hybrid absorber lining for the frequency range from 26 MHz to 18 GHz, leads to minimized reflections. Due to the relative short hybrid absorbers, the chamber can be smaller in its dimensions than a chamber lined with long pyramid absorbers. The SAC-3 / -5 Plus delivers outstanding performances for both, NSA ( $\pm 3.5$  dB) from 30 MHz to 1 GHz, and SVSWR (5 dB) from 1 GHz to 18 GHz conforming to the site validation standard CISPR 16-1-4 for SVSWR. The standard version does already include the antenna mast for 1-4 m height scan, the turntable as well as their controller.



Technical specifications	SAC-3 Plus S	SAC-3 Plus L	SAC-5 Plus
External dimensions (L x W x H)	8,480 mm x 6,530 mm x 6,000 mm	9,230 mm x 6,530 mm x 6,000 mm	12,680 mm x 7,730 mm x 6,000 mm
Frequency range	26 MHz - 18 GHz		
Measuring distance	3.0 m		5.0 m
<b>Absorber lining</b>			
Walls / ceiling	Full-lining with ferrite absorbers F006 and partial lining with additional hybrid absorbers H600 and H1000		
Floor	9 m <sup>2</sup> transportable pyramid absorbers P600 for immunity tests 14.2 m <sup>2</sup> transportable pyramid absorbers P450 Plus for emission measurement > 1 GHz		
Emission measurement	Full compliance acc. to EN 55022 and CISPR 22 class B (30 MHz - 1 GHz) Full compliance acc. to CISPR 16-2-3 (1 GHz - 18 GHz)		
Immunity tests	Full compliance acc. to IEC/EN 61000-4-3		
Max. deviation from NSA acc. to CISPR 16-1-4	$\pm 4$ dB, optional $\pm 3.5$ dB		
Max. Site-VSWR acc. to. CISPR 16-1-4	6 dB, optional 5 dB		
Size of test volume	1.2 m diameter / 1.2 m height	2.0 m diameter / 2.0 m height	
Size of uniform area	1.5 m x 1.5 m		
Max. deviation	0 dB / + 6 dB for 75 % of 16 measuring points		

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## Standard Equipment

- 1 access door, 1.238 x 2.118 mm (3-Plus) / 1.538 x 2.118 mm (5-Plus)
- 4-6 honeycomb inserts for ventilation
- 1 mains filter, 250 VAC, 2 x 32 A
- 1 mains filter, 440 V, 50 / 60 Hz, 4 x 32 A (SAC-5Plus)
- 2 penetration panels
- Feed-throughs: 6 x "N", 6 x "BNC" and 2 x for fibre optics
- Electric installation
- Illumination
- Groundplane
- Raised floor
- Absorber lining
- Turntable
- Antenna mast
- Controller for antenna mast and turntable

## Special Features

- Dome design (offers better RF properties, saves space e.g. for ventilation ducting)
- Reduced price (reduced shielding and absorber quantity)

## Options

- 3 phase mains filter
- Signal and / or data line filter
- Fan
- Antenna tripod
- Video and / or audio system
- Measurement of the chamber
- Measuring equipment
- Non-combustible hybrid absorbers