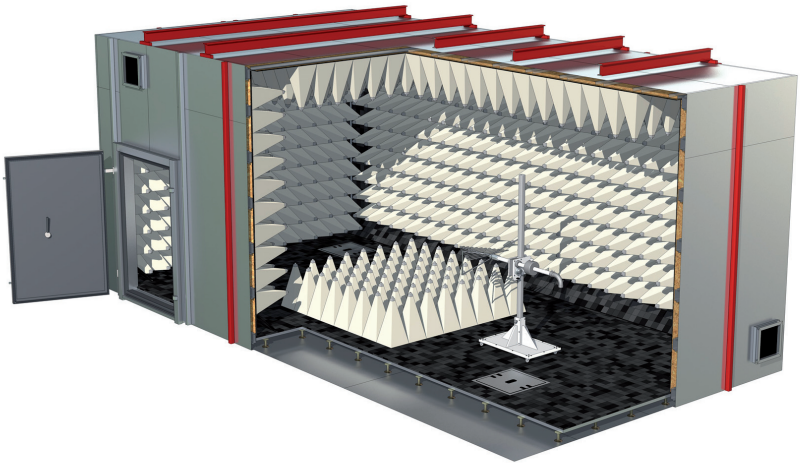
FULLY ANECHOIC CHAMBER – FAC-3



Short Description

FAC´s are defined in CISPR 16-1-4 as "Test site without ground-plane". In comparison to a SAC (Semi Anechoic Chamber) it means that not only the walls and ceiling are lined with absorbers, but also the floor. The advantage of FAC´s is mainly, that reflections from the floor cannot occur and therefore an antenna height scan is not longer necessary, what may save a lot of measuring time. However, special constructions will be necessary (because of the lining with floor absorbers) for the test setup of especially heavy and big EUT´s.

Technical specifications	FAC-3
External dimensions (L x W x H)	8,705mm x 4,655 mm x 3,750 mm
Frequency range	30 MHz to 18 GHz
Measuring distance	3.0 m
Absorber lining	
Walls / Ceiling / Floor	Full-lining with ferrite absorbers type F006 and partial lining with additional pyramid absorbers type H600 + (non-combustible)
Emission measurement	Full compliance acc. to CISPR 16-2-3
Max. deviation from FSNSA acc. to CISPR 16-1-4	±4 dB
Max. Site-VSWR acc. to CISPR 16-1-4	6 dB
Size of test volume	1.5 m diameter / 1.5 m height starting at 1m above the ferrite tiles on the floor
Immunity tests	Full compliance acc. to IEC/EN 61000-4-3
Size of uniform area	1.5 m x 1.5 m
Max deviation	-0 dB / +6 dB for 75 % of 16 measuring points

Standard Equipment

- 1 access door, 1.238 x 2.118 mm
- 4 honeycomb inserts for ventilation
- 1 mains filter, 440 VAC, 4 x 32 A
- 2 penetration panels
- Electric installation
- Illumination
- Raised floor
- Low reflexion table
- Absorber lining
- 1 Turntable, ø 1.5m, 500kg
- 1 Antenna stand with electrical polarization switch
- 1 Controller for antenna stand and turntable
- Feed-throughs: 8 x "N", 8 x "BNC" and 2 x for fibre optics

Options

- 1 phase mains filter
- Signal and / or data line filter
- Fan
- Video and / or audio system
- Validation of the chamber
- Measuring equipment