

COMPACT PYRAMID CHAMBER CPC

Anechoic Chamber for Emission Measurements According to Standard EN 55022B and Immunity Tests According to EN/IEC 61000-4-3
3.0m Measuring Distance

Short description

The CPC is unique for both, its technical construction and the cost-performance ratio. FRANKONIA succeeded in developing an inexpensive chamber, which fulfills the NSA performance of $\pm 4\text{dB}$ from 30MHz to 1GHz in a cylinder of $\text{Ø}2\text{m}$, and 2m height. This could be achieved using pyramid absorbers of a size of only 1,450mm (normal = 2,500mm) and by the additional use of absorbers, which were specially developed for this purpose. The chamber is thus absolutely conforming to standards both for emission measurements as well as for immunity testing. We deliver the CPC turnkey, including antenna mast, turntable and their controllers.



Due to the special design there is no necessity of lining the corner areas of the CPC

Technical data

External dimensions:	11.180mm x 7.580mm x 7.200mm (LxWxH)
Frequency range:	26MHz bis 18GHz
Measuring distance:	3.0m
Installation of absorbers:	
Walls and ceiling:	Pyramid absorbers, type P1450 (corner areas remaining free) type W001 and U001 in certain sections
Floor:	9m ² transportable hybrid absorbers type H 600 for immunity testing according to EN/IEC 61000-4-3
Emission measurements:	Full compliance according to EN 55022B
Max. deviation from the normalized site attenuation NSA according to EN 50147-2:	$\pm 4\text{dB}$ for a testing volume of 2.0m diameter
Immunity tests:	Full compliance according to EN/IEC 61000-4-3
Size of the uniform area:	1.5m x 1.5m
Max. deviation:	-0dB/+6dB at 75% of 16 measuring points

Standard equipment

1 access door, 1.238 x 1.968 mm
6 honeycomb inserts for ventilation
1 mains filter, 250VAC, 2 x 30A
1 mains filter, 440VAC, 4 x 30
2 installation panels
Feed-throughs: 8x „N“, 8x“BNC“ and 2x for fiber optics
Electric installation
Illumination
Raised floor
Ground plane
Turntable, 2.0m diameter
Automatic antenna mast, 1-4m
Controller for mast and turntable
Absorber lining

Options

Additional mains filters
Signal and/or data line filter
Connection to air conditioning system
Video and/or audio system
Non-combustible absorbers
Measurement of the chamber
Measuring equipment
Other extras