

The Hera 3P is designed to perform pre-compliance emission and full compliance immunity tests at 3m distance on commercial equipment. The design of the structure is optimised for maximum performances, in minimum space. The chamber and its absorbers are manufactured by SIEPEL.

CHARACTERISTICS

Compliance & Performances

	Normalised site attenuation (NSA) CISPR 16-1-4	Site VSWR CISPR 16-1-4	Field uniformity IEC/EN 61000-4-3
Measurement distance	3 m	3 m	3 m
Frequency range	200 MHz - 1 GHz	1 GHz - 18 GHz	80 MHz - 18 GHz
Guaranteed performances	± 4 dB	< 6 dB	0 / +6 dB
Compliance	Pre-compliant	Full-compliant	Full-compliant

Dimensions (L x W x H)

Total overall with steel stiffeners	Internal usable dimensions
8.3 x 4.6 x 3.4 m 27 x 15 x 11 ft	6.9 x 2.9 x 2.4 m 23 x 9 x 8 ft

Quality

- All absorbers batches are tested by SIEPEL for reflectivity performances between 30 MHz – 1000 MHz.
- Our raw materials are compliant to RoHS / REACH and free of substances in the current list of Substances of Very High Concern (SVHC) published by the European Chemicals Agency (ECHA).

About our absorbers

- HY absorbers power handling: 2 kW/m² (CW).
- Both absorbers coated with either aqueous or plastic paint are classified ISO class 4 (ISO 14644-1:2015) clean room conditions.

SHIELDING EFFECTIVENESS COMPLIES WITH EN 50147-1 (10 kHz - 18 GHz)

Radiated emission (EMI) testing: Pre compliant with the following standards from 30 MHz to 18 (40) GHz:

- CISPR 11,
- CISPR 16-1-4,
- CISPR 22 / EN 55022,
- CISPR 32,
- EN 50147-2,
- EN 55011,
- ANSI C63.4

Radiated immunity (EMS) testing: Fully compliant with EN/IEC 61000-4-3.

Radio standards: All ETSI standards referring to CISPR 16 and EN/IEC 61000-4-3.

OUR STRENGTHS

- High-quality components & parts
- Guarantee of 20 years for the RF performances of our absorbers
- Guaranteed performances
- Control of performances before shipment
- Measurement department accredited ISO/IEC 17025:2005 (accreditation n° 1-6220, scope available on www.cofrac.fr)
- Fast delivery: permanent stock available off the shelves
- Setting-up of the chambers by our dedicated installation team

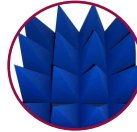


CONFIGURATION



MODULAR SHIELDING

Self-standing structure up to 18 (40) GHz
Steele stiffeners



OPTIMISED ABSORBER LINING

Microwave pyramidal absorbers (walls and ceiling)
Removable pyramidal absorbers for emission & immunity (floor)
Truncated type on the ceiling above test volume



RAISED FLOOR

With ground plane



TURNTABLE

Diameter 1.2 m - Max payload 500 kg



PROJECT REALISATION

Project management
Technical design & study
On-site installation



PERFORMANCE VERIFICATION

Shielding effectiveness at 900 MHz at critical locations



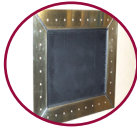
DOOR

Manual single leaf swing door
Clearance 1.2 x 2.1 m



WALL PANELS

Penetration panel on frame including coaxial feedthroughs and waveguides



VENTILATION

Honeycomb air vents
300 x 300 mm up to 18 (40) GHz



POWER DISTRIBUTION

Power filter single phase 32 A
Power filter three-phase 32 A
Electrical package: power distribution, lighting

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AVAILABLE OPTIONS

- Shielded control and amplifier rooms
- Extended shielding performances up to 40 GHz
- Plastic paint for pyramidal absorbers with wide range of colors
- Other types and dimensions of doors
- Electrically-assisted door's latching/unlatching
- Antenna positioner
- Floor hatches with connection points
- Additional power filters, data filters and special feedthroughs
- CCTV/audio monitoring systems
- On request, some measurements can be accredited ISO 17025 (accreditation number 1-6220, scope available on www.cofrac.fr).
- Military /Automotive / RadioCom standards compliance
- Others on demand

FOR OTHER EMC CHAMBERS
PLEASE REFER TO OUR
DATASHEET

«HOW TO CHOOSE AN
ANECHOIC CHAMBER»

