

# EMC TESTS

## EMC CHAMBER

**Manufacturer:** FRANKONIA EMC Test-Systems GmbH, Germany

**Name/Type:** SEMI-ANECHOIC CHAMBER

**Device enables:**

- Radiated emission measurement.
- Radiated immunity measurement.

**Technical data:**

- External Dimensions (L x W x H): 7.58m x 6.38m x 3.75m .
- Frequency range: 30 MHz - 18 GHz.
- Automatic sliding door dimensions (W x H): 1.8m x 2.1m.
- Measurement distances: 1m in 3m.
- Power line, data/signal line filters:
  - Power line filter: 250VAC, 50/60 Hz, 2x32A.
  - Power line filter: 440VAC, 50/60 Hz, 4x63A.
- Data/signal line filter: 100V DC/AC, 20x1A.
- Turntable: FTM2-2.
- Automatic antenna mast: FAM 4.
- Video system: FCS.
- Portable video camera: FMC.
- Audio system: FAS 3.

**Standards:**

- ISO 11452-2,
- EN 61000-4-3,
- CISPR 25 (EN55025),
- ISO 11451-2,
- CISPR12 (EN55012),
- EN55022.



# EMC measuring equipment

## Measuring equipment for radiated emission measurements:

- EMI receiver: Rohde&Schwarz, ESU8.
- Broadband receiving antenna: Frankonia, ALX-4000.

### Capabilities:

- Frequency range: 30 MHz – 1 GHz.
- Measurement distances: 1 m in 3 m.
- Antenna height: 100 cm – 200 cm.

### Standards:

- EN55011
- EN55014-1
- EN55022
- CISPR 25



## Measuring equipment for conducted emission measurements:

- EMI receiver: Rohde&Schwarz, ESU8.
- Pulse limiter: Rohde&Schwarz, ESH3-Z2.
- LISN: Schwarzbeck, NNBM 8126 F.

### Capabilities:

- Frequency range: 150kHz – 30MHz.
- Maximum current: 400A.

### Standards:

- EN55011,
- EN55022.

## Measuring equipment for radiated immunity measurements:

- EMC control unit with signal generator: Frankonia, ECU-3.
- Broadband amplifier: Prana, PRANA DP 2200.
- Broadband amplifier: Frankonia, FLH-1000B.
- Broadband amplifier: Frankonia, FLG-200A.
- Transmission antenna: Schwarzbeck, BBAE 9179.
- Transmission antenna: Schwarzbeck, STLP 9128 ES.
- Transmission antenna: Schwarzbeck, BBHA 9120 E.
- Electric field probe: Frankonia, EFS-10.
- Software: Frankonia, RF-LAB.

### Capabilities:

- F80 – 200 MHz: 100 V/m,
- 200 MHz – 2 GHz: 200 V/m.

### Standards:

- EN55011,
- EN55022.

## Measuring equipment for conducted immunity measurements:

- EMTEST measuring system.

### Capabilities:

- Pulses: 1, 2a, 2b, 3a, 3b, 4, 5, 5b, 6, 7.
- Simulation of Burst and Surge pulses on power lines and voltage drop simulator.

### Standards:

- EN 61000-4-4,
- EN 61000-4-5,
- EN 61000-4-6,
- EN 61000-4-11,
- DIN 40839,
- SAEJ1455,
- JASOD001,
- ISO 7637-2,
- ISO 7637-3.

