

RAINFORD

EMC SYSTEMS

Rainford EMC10

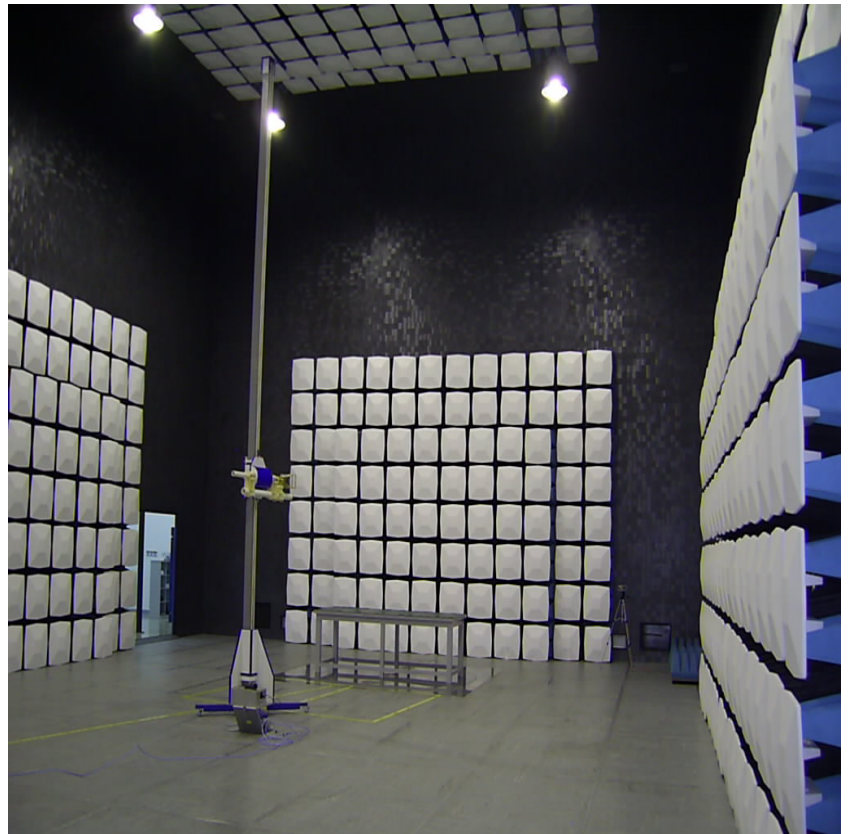
10 Metre SAC

Emission Performance – 30MHz-26GHz
Immunity 30 MHz - 6GHz

This is the ultimate 10 metre test range ensuring fully compliant Emission and Immunity testing. Ferrite and hybrid pyramidal absorbers are combined in a unique pattern within a SmartShield high performance chamber

Key features:

- Fully compliant design to meet CISPR, EN and FCC requirements
- Dimension of 20m x 14m x 9m High
- Emission performance of +/-4dB or better (typ 3.2dB) 30MHz-40GHz frequency range
- Fully compliant for Immunity in accordance with EN61000.4.3
- Ferrite and Hybrid Lining from 30MHz-40GHz measurements
- Optimised computer modelling to enable partial Hybrid low cost version
- Very cost-effective solution
- Flexible modular design enables easy site changes or upgrading
- Available with turntables, masts and measurement equipment



Description:

The SmartShield Rainford EMC10 chamber's small overall size results from the use of hybrid absorber ferrite tile, which require less volumetric space than traditional absorbers. These chambers perform 6 meter antenna scans above the ground plane and accommodate large diameter turntables for testing substantial EUTs.

The Rainford EMC10 is just one of a range of pre-defined designs which include the Rainford MCC (Mini Compact Chamber), CC (Compact Chamber), EMC3 & EMC5.

Rainford's vast experience and design tools allows us to adapt our existing designs to suit specific customers requirements.



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Standard Equipment

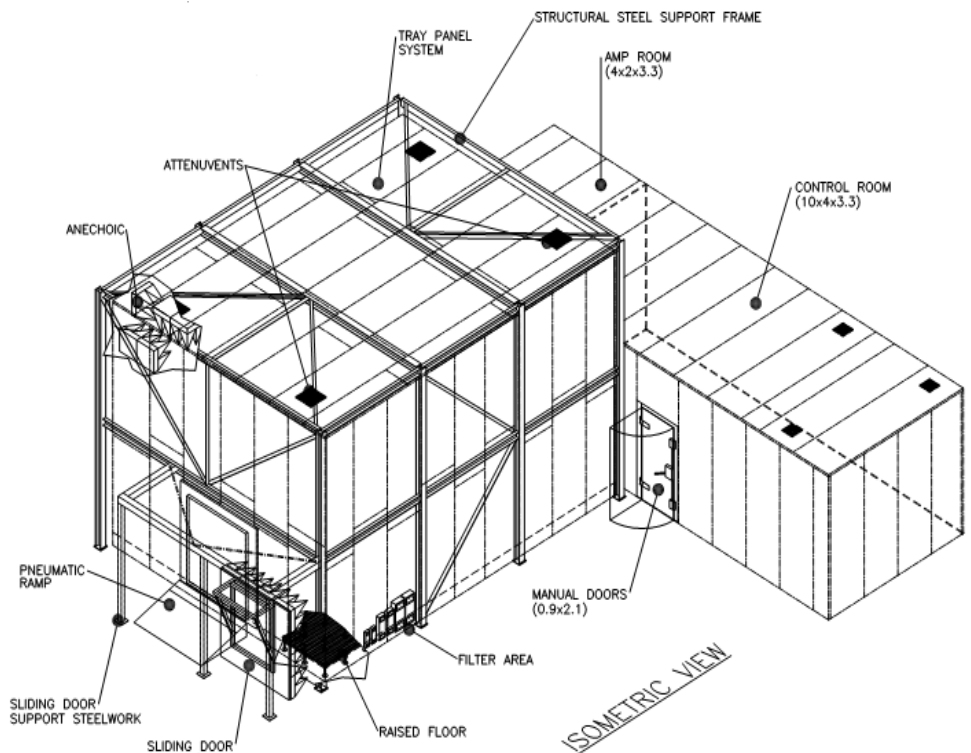
1 x 0.9m x 2.1m personnel door
 1 x Mains filter 240v, 32A
 4 x Attenuvents (300mm x 300mm)
 2 x Penetration panels
 Feedthrough interfaces include:
 4 x N-Type connectors
 4 x BNC Type connectors
 2 x Fibre Optic
 1 x Penetration tube 5cm with cap
 Electrical Installation includes:
 1 x Consumer unit
 6 x Single phase sockets
 4 x Lights
 Raised floor
 Absorber lining

Options

Large Access door (bespoke designs for various size DUT's, including sliding)
 Turntable
 Mast
 Controllers
 Dynamometers
 3-Phase mains filter
 Control/data line filters
 Air conditioning
 Exhaust extraction
 Video system
 Fire detection/suppression
 Chamber calibration/Verification
 Control room
 Amplifier room

Maintenance

REMC01 - 1 year maintenance pack
 REMC03 - 3 year maintenance pack
 REMC05 - 5 year maintenance pack



Technical Data

Internal Shield Dimensions	20m x 14m x 9m
Frequency Range	30MHz to 40GHz
Absorber Type	Ferrite/Hybrid
Measuring distance	5m (also 3m)
Emissions Performance	EN50147-2
	Full compliance (less than ± 4 dB for 5m QZ, typ 3.2dB) and When calibrated in accordance with ANSI 63.4
Immunity Performance	EN/IEC 61000-4-3
	Full compliance (1.5m x 1.5m 0dB/+6dB) At an elevation of 0.8m to 2.3m above ground plane



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