

High performance systems for EMC and RF protection environments



RCC - REMC Compact Chamber

A Rainford Compact Chamber for pre compliant Emission performance and full compliant Immunity testing. Ferrite and hybrid pyramidal absorbers are combined in a unique design, within a SmartShield high performance chamber

Radiated Emission: 30MHz - 18GHz
Radiates Immunity: 30MHz - 6GHz

Key features:

- Pre compliant Emission performance of +/- 4dB at 3m test distance for 80% of frequency range **ANSI C63.4, EN50147/2**
- Fully compliant for Immunity in accordance with **EN61000.4.3**
- RCC also meets several **ETSI** test standards (**UKAS accredited**)
- Ferrite and Hybrid Lining for **30MHz-18GHz** measurements
- Optimised computer modelling to enable partial Hybrid low cost version
- **Total turnkey solutions**, including Turntables and Test systems, available
- Flexible modular design enables easy site changes or upgrading
- Independently certified **100dB @ 18GHz** shielding performance (ISO17025)



General Description:

The Rainford **RCC** chamber's overall size results from the use of a unique hybrid absorber design, which require less volumetric space than traditional absorbers.

Using our SmartShield high performance, modular construction shielding system, we can offer a versatile demountable system.

A combined Managerial experience in EMC of over 100 years, to provide complete customer satisfaction.

The Rainford **RCC** is just one of a range of pre-defined designs that includes the Rainford **RMCC** (Mini Compact Chamber), **REMC3, REMC5 & REMC10**.

Our vast experience and design tools allow us to adapt our existing designs to suit specific customers requirements.

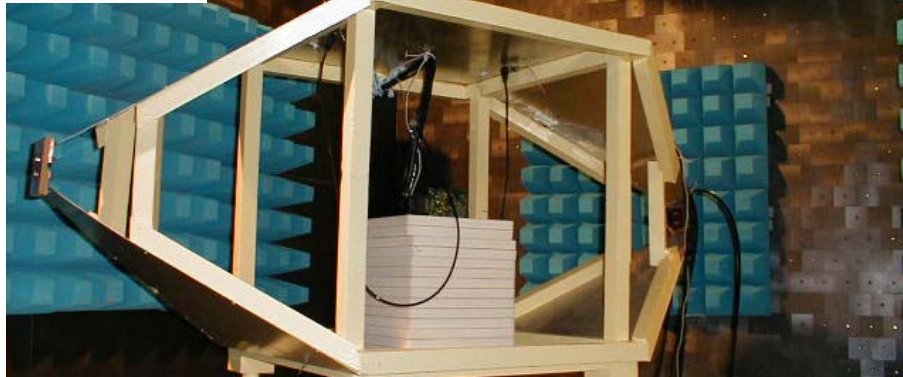
High quality and long life, are guaranteed with our **ISO9001** certified production facility.

With the future in mind, Rainford EMC is certified according to the Environmental standard **ISO14001**

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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)
Electrical Installation includes:
1 x Consumer unit
2 x Single phase sockets
2 x Lights

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
Absorber lining

Options

Large Access door
Turntable, Mast ,Controllers
Dynamometers
3-Phase mains filter
Control/data line filters
Test & Measurement Systems

Air conditioning
Exhaust extraction
Video system
Fire detection/suppression
Chamber calibration/Verification
Control room
Amplifier room

Maintenance

REMC 1 to 5 year maintenance pack available

Technical Data

30 MHz - 18 GHz Performance Range

Pre Compliance Testing at 3m test distance
for Radiated Emissions:

- ANSI C63.4
- FCC Parts 15 & 18
- EN 50147-2
- EN50011/CISPR 11
- EN550016/CISPR 16
- EN550022/CISPR 22
- VCCI V-3/2004.04
- 2004/104/EC -SAE J551 /CISPR25

Full Compliance Testing for Radiated Immunity:

- IEC 61000-4-3/EN61000-4-3
- 2004/104/ISO11452/EC -SAE J551, SAE J-1113



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