

# High performance systems for EMC and RF protection environments



## RMSS - REMC Mode Stir System

A Rainford Mode Stir System (or Reverberation Chamber) to meet the current latest European and worldwide specifications namely:

**EN 61000.4.21 and IEC 61000.4.2,  
MIL-STD-461E,  
RTCA DO160D**

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

The paddle system in particular has been designed to ensure that the shape size and movement in the most efficient. This ensures that the widest range of frequencies and particularly low frequency performance is maximized.

### Key features:

- Pre compliant Emission performance of +/- 4dB at 3m test distance for 80% of frequency range **ANSI C63.4, EN50147/2**
- Pre compliant for Immunity in accordance with **EN61000.4.3**
- RMSS also meets several **ETSI** test standards (**UKAS accredited**)
- **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 **RMSS** chamber's designed to suit customer's needs with our strong design capability and experience gained through multiple installations around the world.

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

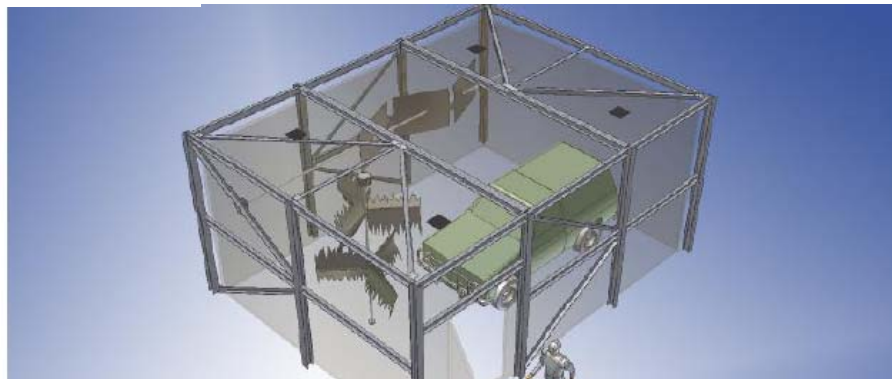
High quality and long life, are guaranteed with our **ISO9001** certified production facility.

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

Rainford **EMC** Systems Ltd,  
North Florida Road, Haydock,  
St Helens, WA11 9TN,  
United Kingdom  
Tel: +44 (0) 1942 296190  
Fax: +44 (0) 1942 275202  
email: [sales@rainfordemc.com](mailto:sales@rainfordemc.com)



# High performance systems for EMC and RF protection environments



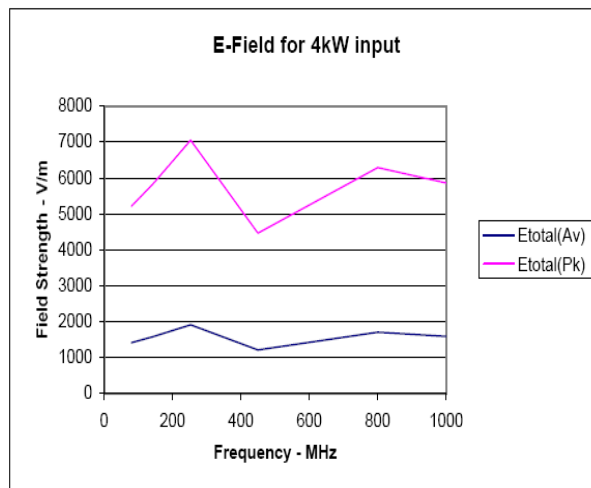
## Standard Equipment

SmartShield Chamber (Various sizes available)  
 2 x Stirrer & paddles  
 1 x Controller module

2 x Stepper motor  
 1 x Mode Stir software

## Options

Aluminium or cooper lining (to improve Q factor)  
 Large Access door  
 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

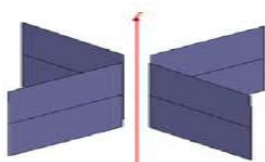


## Maintenance

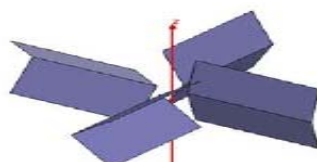
REMC 1 to 5 year maintenance pack available

## Paddle Designs:

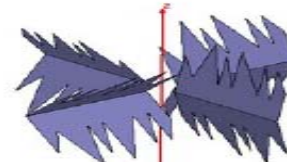
There are various paddle designs used within Rainford Installations :



Stirrer 1



Stirrer 2



Stirrer 3

Rainford EMC Systems Ltd,  
 North Florida Road, Haydock,  
 St Helens, WA11 9TN,  
 United Kingdom

Tel: +44 (0) 1942 296190

Fax: +44 (0) 1942 275202

email: [sales@rainfordemc.com](mailto:sales@rainfordemc.com)

