



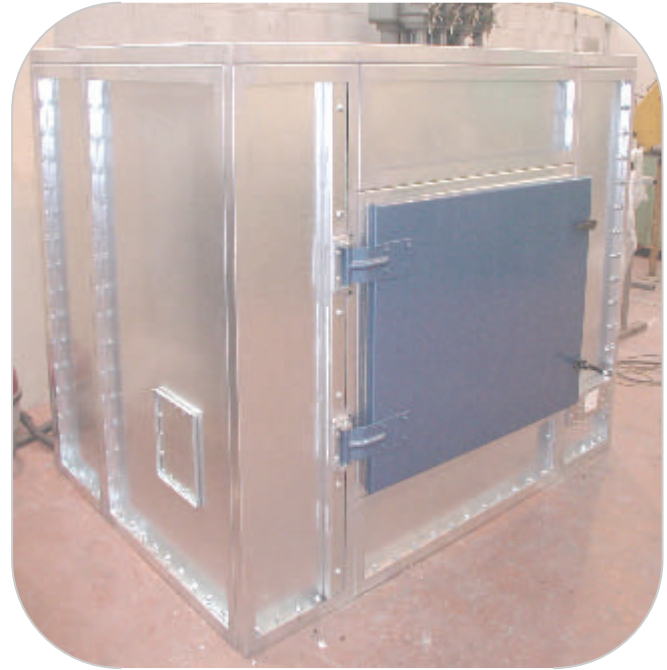
Rainford STC (Standard Test Cell)

The STC has been developed for the R&D, Production and quality control environments where space is critical.

The cube like design has been produced for small sized DUT's (0.5m x 0.5m x 0.5m) approximately.

With an operating frequency which starts at 10kHz and well exceeds 20GHz the STC creates an ideal environment for testing wireless devices for such technologies as GSM, UMTS, CDMA, Bluetooth, DECT, W-LAN, Zigbee, RFID, Wimax etc etc

Using the same high end Smartshield technology as incorporated in our larger shielded rooms the STC will provide protection and isolation from the surrounding RF environment. With the addition of ferrite and absorber materials low reflections and stable quiet zones are achievable.



Penetrations and filtering can be adapted to the customers requirements to accommodate not only power but also control/data lines, gas, air and even water.

Standard attenuvents for cooling on the DUT are also included in this design. For more heat critical devices additional cooling can be implemented.

The main body of the unit is constructed from 2mm thick steel tray that can be either bolted with TCS gasket or welded.



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Rainford STC (Standard Test Cell)

General specification

Dimensions	0.45m x 0.45m x 0.45m or 0.90m x 0.90m x 0.90m
Main body material	Galvanised spangled stainless steel (2mm)
Door	0.3m x 0.3m double Knife edge, oversized hinges
Construction	Bolted with 100mm centres
Gasket	double 'P' type TCS (Tin copper Silver)
Attenuvents	150mm x 150mm honey comb stainless steel
Penetrations	Mains Filter 240v single phase 16A 1 x N type 1 x BNC 1 x Optical 1A



Options

- 5A DC filter
- 9 Pin D type interface
- 25 Pin D type interface
- USB interface
- LAN Interface

Please note that whilst only two model sizes have been shown (0.9m x 0.9m x 0.9m and 0.45m x 0.45m x 0.45m). We can adapt our designs to suit your requirements. If you feel that these sizes/configurations do not ideally match your needs please contact us to discuss your requirement further.

Shielding Attenuation Specification

Frequency	Field	Attenuation
10 kHz	H	60dB
200kHz	H	100dB
1 MHz	E	100dB
100 MHz	E	100dB
500 MHz	E	100dB
1 GHz	P	100dB
10GHz	μ	100dB
18GHz	μ	100dB



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