

## PORTABLE RF ANECHOIC CHAMBER

Scientist and Engineers involved in Research and Testing of RF components like Antennas, sometime needs small setup which may be easily portable and effective. Two detachable Anechoic Boxes are manufactured having pyramidal and wedge-shaped RF absorbers on floor, roof and three walls leaving one side open. Two boxes with similar configuration are joined together with locking mechanism. After Testing of Equipment Under Test, two Anechoic Boxes can be separated, Light weight solution with wheels at the bottom makes it most acceptable Test facility at Engineering Colleges and Universities and also at production houses involved in manufacturing small Wi-Fi Antennas, Patch Antennas and systems.

S.No.	Model No.	Size of Box (LxBxH)	Frequency	Reflectivity	Shielding Effectiveness
1.	AB03	2.5MTRx1MTRx1MTR	800MHz - 6GHz	-28	-60
2.	AB06	3MTRx1MTRx1MTR	800MHz - 20GHz	-25	-60
3.	AB13	2.5MTRx1.5MTRx1.5MTR	800MHz - 20GHz	-35	-60
4.	AB17	4MTRx3MTRx3MTR	800MHz - 20GHz	-40	-60
5.	AB26	1MTRx1MTRx1MTR	8GHz - 18GHz	-45	-50
6.	AB51	1MTRx1MTRx1MTR	8GHz - 40GHz	-45	-50
7.	AB65	CUSTOMIZED SIZE	CUSTOMIZED FRE.	CUSTOMIZED	CUSTOMIZED

### Turn Table

A rotation of 360 for Antenna under Test is provided by turn table, is incorporation as per requirement of users.

### Types of Turn Table

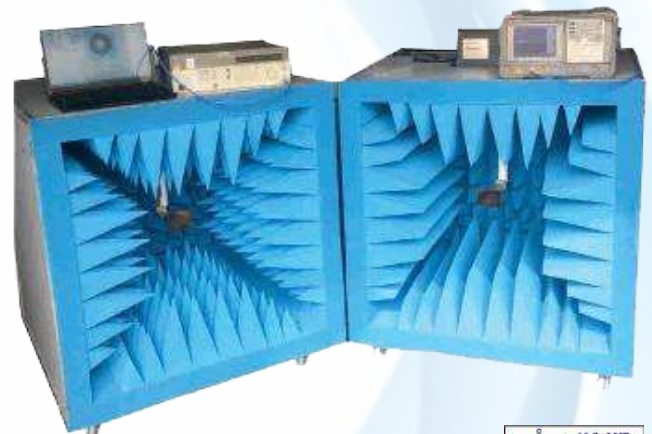
1. Manual Rotation.
2. GUI Based Automation Rotation

### Types of Turn Table

1. Reflectivity by IEEE 1128-1998 Standards
2. Fire Retardancy as per IEEE 1128-1998 Standards

### Shielding Effectiveness Test

By using IEEE 299 or by MIL STD 285.



## Exclusive For Engineering Students

Students of M.Tech and B.Tech are involved to study Antenna parameters, can effectively use portable RF Anechoic chamber boxes by using test equipment easily available in their university and college labs. Klystron power supply, VSWR meter and Gun power supply having waveguide training kits are easily incorporated in Anechoic Chamber Boxes other than VNA, Signal Generator and Spectrum Analyser

### Experiments

- Polar plots - E & H Plane
- Cartesian - E & H Plane
- Polarization
- Radiation Pattern
- 3 dB Beam Width
- Gain
- Reflectivity
- Shielding Effectiveness
- Front to Back Lobe Ratio
- Directivity

### Experiments

- Low Cost
- High Reflectivity
- High Shielding
- With Protective Cover
- With Antennas

