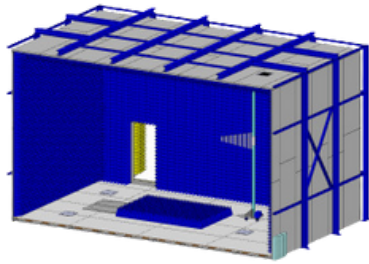


# EMC Testing Chambers

# Technical Data Sheet

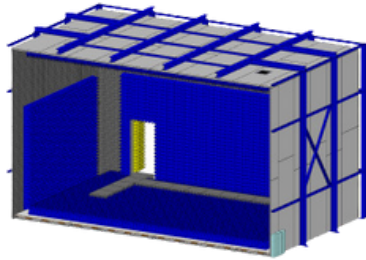


## Semi-Anechoic Chamber

Frequency Range : 30 MHz-18/40 GHz

### Applications

- MIL STD 461/MIL STD 464/DO-160
- Radio Directive Compliance
- Antenna Testing
- Wireless Communication Devices
- Automotive Electronics
- Aerospace and Defence.



## Full-Anechoic Chamber

Frequency Range : 10 KHz-19 GHz/40 GHz

### Applications

- MIL STD 461 / CISPR-12/25
- Antenna Pattern Measurement
- Wireless Device Testing
- Radar Cross Section (RCS) Measurement
- Radio Frequency (RF) Propagation Studies
- Electromagnetic Interference (EMI) Testing

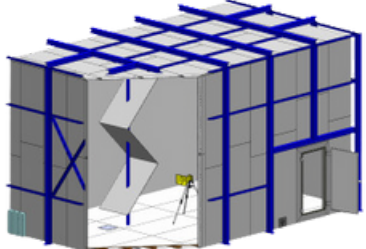


## Automotive Chamber

Frequency Range : 10 KHz-40 GHz

### Applications

- Vehicle Durability Testing
- Component Testing
- Climate and Environmental Testing
- CISPR 12/25



## Reverberation Chamber

Frequency Range : 10 KHz-18 GHz/40 GHz

### Applications

- Automotive
- Aerospace
- Defense

# EMC Testing Chambers

# Technical Data Sheet

Specifications		SAC-3	SAC-5	SAC-10	SAC-ESA	SAC-Automotive	SAC-MIL-STD/DO160	SAC-3pre	SAC-1pre	FAC-3
Compliance		Compliant	Compliant	Compliant	Compliant	Compliant	Compliant	Precompliant	Precompliant	Compliant
Dimensions (L x W x H, M3)		9 x 6 x 6	12 x 9 x 7	20 x 13 x 9	6 x 4 x 3.5	12 x 7 x 5	5 x 4 x 3	7 x 3 x 3	5 x 3 x 3	9 x 5 x 5/ 10 x 5 x 5
Test distance		3	5	10	1	1	1	3	1	3
Absorbers	Ferrite tiles (side walls + ceiling)	Yes	Yes	Yes	Yes	Yes	Yes / No	Yes	Yes	Yes
	Ferrite tiles (floor)	No	No	No	No	Yes	No	Yes	No	Yes
	Absorbers layout (side walls + ceiling)	Partial	Partial	Partial	Full	Full	Partial / Full	Partial / Full	Full	Full
	Absorbers layout (floor)	Partial	Partial	Partial	No	No	No	Yes	Yes	Yes (hybrid)
Shielding Effectiveness (dB, typical)	10KHz to 18/40 GHz as per EN50147-1, IEEE299	Greater than 95dB	Greater than 95dB	Greater than 95dB	Greater than 95dB	Greater than 95dB	Greater than 95dB	Greater than 95dB	Greater than 95dB	Greater than 95dB
Test volume diameter / height (meter)		2 / 2	3 / 3	4 / 3	N/A	N/A	N/A	1.2 / 1.5	1 / 1.5	1.2 / 1
NSA performances	30MHz to 1GHz	±3.5dB	±3.5dB	±3.5dB	N/A	N/A	N/A	±8dB 30MHz/200MHz ±4dB 200MHz-1GHz	±4dB	±4dB
S-VSWR	6GHz to 18GHz	< 6dB	< 6dB	< 6dB	N/A	N/A	N/A	< 6dB	< 6dB	< 6dB
Field uniformity area	26MHz-18GHz - 75% of the 16 points of 1.5 x 1.5m plan within -0/+6dB	Compliant	Compliant	Compliant	N/A	N/A	N/A	Compliant	Compliant	Compliant
Radiated Emissions	Compliance with	CISPR16-1-4, CISPR32, CISPR12/CISPR25, CISPR14, ANSI C63.4			CISPR25		MIL-STD-461/464, DO160	CISPR16-1-4, CISPR32, CISPR12/25, CISPR14, ANSI C63.4		
Radiated Immunity	Compliance with	IEC61000-4-3			ISO11452-2			IEC61000-4-3		
EMI Frequency Range	30 MHz - 40 GHz	30MHz-18GHz					10KHz - 40GHz	30/200MHz - 18GHz	30MHz-18GHz	30MHz-18GHz
EMS Frequency Range	26 MHz - 18 GHz	26MHz-18GHz					26/80MHz - 18GHz	10KHz - 18GHz	26MHz-18GHz	26MHz-18GHz
Customizations		yes	yes	yes	yes	yes	yes	yes	yes	yes

	Reverb80	Reverb100	Reverb200	Reverb400	Reverb1000
Dimensions (L x W x H, M3)	10 x 7 x 6	8 x 5 x 5	5 x 4 x 3	3 x 3 x 3	1 x 1 x 1
Shielding Effectiveness (dB, typical)	Greater than 95dB	Greater than 95dB	Greater than 95dB	Greater than 95dB	Greater than 95dB
Radiated Immunity	IEC61000-4-21, DO160, ISO11452-11, MIL-STD-461, MIL-STD-464				
EMS Frequency Range	80MHz-40GHz	100MHz-40GHz	200MHz-40GHz	400MHz-40GHz	1GHz-40GHz
Customizations	yes	yes	yes	yes	yes

In addition to the typical specifications we are able to tailor our chamber's specifications to satisfy our customers' individual requirements.

Contact [sales@aracion.com](mailto:sales@aracion.com) for highly customized testing chambers!