VAC – THE WORLD'S LEADING MANUFACTURER OF MAGNETICALLY SHIELDED ROOMS

One-Stop Shop – from raw materials to the finished Magnetically Shielded Room (MSR)

VACOSHIELD®

- More than 30 years of experience in design and construction result in superior product quality
- Optimum shielding performance over the entire frequency range from DC up to 1 GHz
- High quality standard shielding rooms
- Customized solutions possible

ADVANTAGES OF VAC MSR

- More than 150 MSRs have successfully been installed worldwide
- Preselection of top quality material lots
- Excellent R&D, engineering and customer support
- Great design flexibility
- Measurements of environmental disturbance
- Fast set up and construction times
- Modular design allows dismantling and reassembly at other sites

VACOSHIELD

VAC is offering the following three MSR solutions as standard products, all made with VAC's nickel-iron high permeability alloy MUMETALL®.

VACOSHIELD ADVANCED

VACOSHIELD Advanced is VAC's top-selling two-layer MSR solution. The complementing highly conductive aluminum layer provides the necessary magnetic shielding at higher frequencies. The rooms are built with a special I-beam construction that gives stability and fulfills static requirements.

VACOSHIELD PREMIUM

The Premium version is an upgraded three-layer MSR product. It is used at sites with over-average environmental magnetic noise.

CUSTOMIZED SOLUTIONS

VAC is offering customized high-end MSR designs.

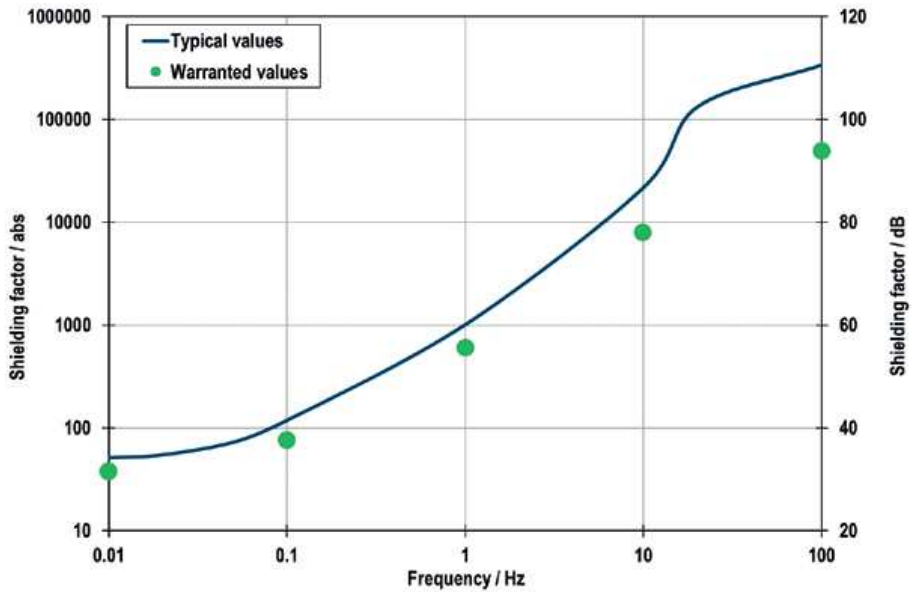
VACOSHIELD FACTS

	VACOSHIELD Advanced* *former Ak3b	VACOSHIELD Premium
Total Weight	7.5 t	10.0 t
Shell Structure	MUMETALL / aluminum / MUMETALL	MUMETALL / MUMETALL / aluminum / MUMETALL
	Single shells supported on an I-Beam structure	
Usable Inner Dimensions Length x Width x Height	4.0 x 3.0 x 2.4 m 13.1 x 9.8 x 7.9 feet	
Hinged Door	Pneumatically assisted door locking system Level or threshold entry	
	1.0 m (width) x 2.0 m (height) 3.28 feet (width) x 6.56 feet (height)	
Standard Fittings	All MSR's include feedthroughs for ventilation, visual projection and cables. Additional customized feedthroughs possible. Dimmable, low voltage halogen spots assembled along the side walls. Emergency illumination in case of power breakdown included. LED solution possible. Variable, clinically adapted interior and exterior white coloured wall finish as a standard.	

WARRANTED SHIELDING FACTORS OF VACOSHIELD

Frequency f/Hz	VACOSHIELD Advanced* *former Ak3b		VACOSHIELD Premium	
Values are based on low external fields of 1 μT_{rms}	Warranted value S [dB]	Warranted value S [abs]	Warranted value S [dB]	Warranted value S [abs]
DC	54	**500**	70	**3,000**
0.01 Hz	32	**38**	40	**100**
0.1 Hz	38	**75**	48	**250**
1 Hz	56	**600**	66	**2,000**
10 Hz	78	**8,000**	92	**40,000**
100 Hz	94	**50,000**	106	**200,000**

TYPICAL SHIELDING FACTORS OF VACOSHIELD ADVANCED 3 X 4 M (13.1 X 9.8 FT)



The typical values have been determined by real data of VAC MSRs.

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ADVANCED MATERIALS – THE KEY TO PROGRESS