

SA 209 Windscreen



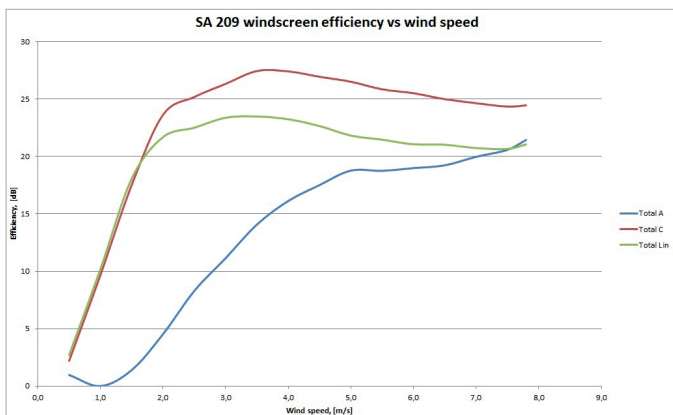
The SA 209 windscreen is used in following SvanTek Noise Monitoring Stations: SV 307, SV 200A, SV 258, SV 271, SV 277 and SV 279.

The purpose of the windscreen is attenuate the wind noise during the outdoor measurements. Downwind propagation conditions for the noise measurement method specified in ISO 9613-2 and ISO 1996-2 take into account the wind speed between approximately 1 m/s and 5 m/s, measured at a height of 3 m to 11 m above the ground. Most of the outdoor measurement techniques follow ISO recommendations therefore the noise measurements are carried out in conditions up to the wind-speed of 5 m/s. The higher readings of the wind-speed are often measured at wind-farms which is mentioned in the standard IEC 61400 that for this purpose recommends use of windscreens with diameter from 90 mm.

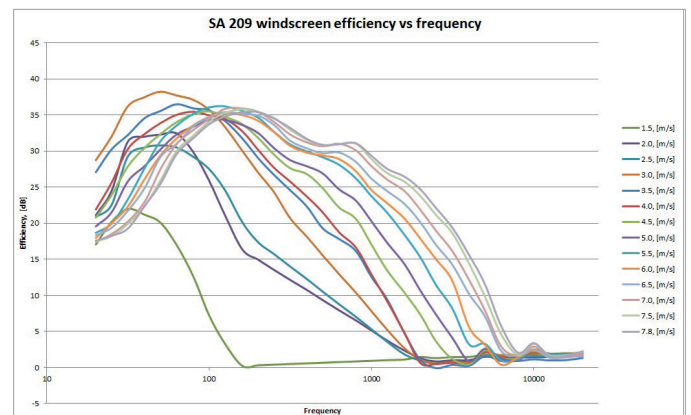


Attenuation of wind noise

The attenuation of the wind noise by the SA 209 windscreen depends on the wind speed. The SA 209 windscreen efficiency measured at wind-speed up to 8 m/s is shown in diagrams below:



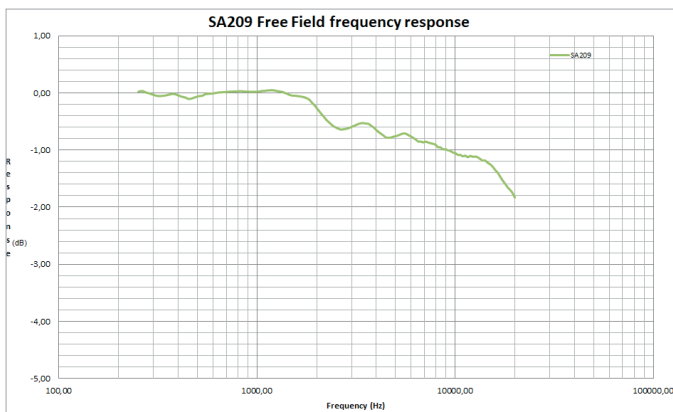
Efficiency of the SA 209 windscreen at different wind speeds with A-weighting, C-weighting and Linear.



Efficiency of the SA 209 windscreen for different frequencies at different wind speeds .

Free Field Characteristics

Influence of SA 209 windscreen on acoustical properties of microphone measured in anechoic chamber.



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