

Acoustic reverberation room

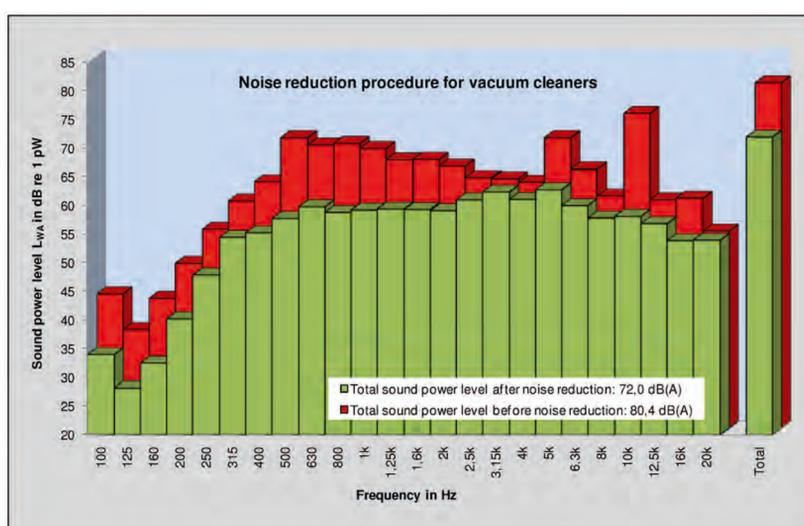
Technical data

- The room has an approximately rectangular layout. The walls and the ceiling are tilted at an angle of approximately 5 degree.
- floor area of the room: $S_{GF} = 47.5 \text{ m}^2$
- room volume: $V = 254.5 \text{ m}^3$
- surface area: $S_{OF} = 247 \text{ m}^2$
- equipped with 1 x broad-band absorber and 5 x low-frequency membrane absorbers
- usable frequency range for measurements of broad-band noise according to ISO 3741(class I): 100 Hz – 10 kHz
- ventilating system noise-level: $< 10 \text{ dB(A)}$
- vibration isolated room-in-room construction with lower limiting frequency of $< 15 \text{ Hz}$



Applications

- determination of the sound power level, e.g. of household appliances according to standard specification EN 60704 and power tools according to EN 60745
- determination of the sound absorption coefficient for diffuse sound incidence of materials



noise measurement and noise reduction of a vacuum cleaner



measurement of noise absorption of a protection wall