

ANECHOIC CHAMBER



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The Anechoic Chamber is a room specially designed and fabricated to completely absorb sound reflections. They are also well insulated from exterior sources of noise. The combination of both aspects means they simulate a quiet open-space of infinite dimension, which is useful when exterior influences would otherwise give false results during measurements.

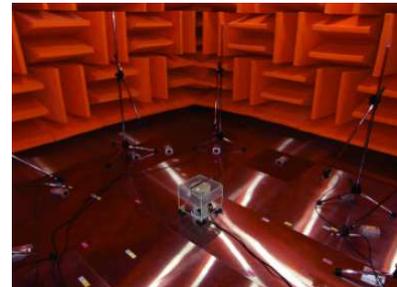
Our Anechoic chambers are custom designed and can range from small compartments the size of household microwave ovens to ones as large as a house. The size of the required chamber depends on the size of the objects to be tested and the frequency range of the signals used, although scale models can sometimes be used by testing at shorter wavelengths. All Anechoic chambers are constructed using heavy density metal composite panels. The chambers are also well isolated from any existing floor using spring vibration isolators.

Anechoic chambers are commonly used in acoustics to conduct experiments in nominally "free field" conditions. All sound energy will be traveling away from the source with almost none reflected back. Some common Anechoic chamber experiments include measuring the transfer function of a loudspeaker or the directivity of noise radiation from industrial machinery. In general, the interior of an Anechoic chamber is very quiet, with typical noise levels in the 15–25 dBA range.

The Semi-Anechoic chambers is very similar to the Anechoic chamber except that they have a solid floor that acts as a work surface for supporting heavy items, such as compressors, washing machines, or industrial machinery, rather than the mesh floor grille over absorbent wedges found in full Anechoic chambers. This floor is damped and floating on spring vibration isolators to isolate it from outside vibration or electromagnetic signals.



Anechoic Box



Equipment Test comply with ISO3744

Type	Outer Size L x W x H (m)	Inner Size L x W x H (m)	Inner Background Noise	Cut-Off Frequency Hz	Noise Isolation NIC	Ambient Noise dB (A)
AC-SP-601	5.0 x 7.5 x 6.0	3.8 x 6.3 x 3.6	25 dB(A) at 20 ~ 20KHz	160	≥ 45	< 50
AC-SP-602	3.3 x 3.3 x 3.5	2.0 x 2.0 x 2.0	20 dB(A) at 20 ~ 20KHz	125	≥ 40	< 50
AC-SP-611-S	10.0 x 7.5 x 6.6	8.8 x 6.3 x 5.5	25 dB(A) at 20 ~ 20KHz	200	≥ 45	< 60
AC-SP-612-S	7.8 x 6.3 x 6.0	6.8 x 5.3 x 2.75	25 dB(A) at 20 ~ 20KHz	200	≥ 45	< 60
AC-SP-613-S	4.0 x 4.0 x 2.8	3.0 x 2.9 x 2.0	25 dB(A) at 20 ~ 20KHz	200	≥ 45	< 50
AC-SP-614-S	4.0 x 4.0 x 2.8	3.2 x 3.1 x 2.1	25 dB(A) at 20 ~ 20KHz	200	≥ 45	< 50

Standard : Design Similar to ISO 3741 / 3754 / 3745 / 3746 Standard .