Industrial Acoustic Enclosures

ACOUSTICS ENCLOSURE BROCHURE

"We just going to control clean environment"

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Kaizen's Industrial Acoustics Enclosures

➢ Acoustic Cleanroom solution

Sound proofing in cleanrooms

For certain activities in cleanroom environment, a good sound proofing of the premises is essential. For example: in research laboratories and hospital sector cleanrooms.

Acoustics is a parameter that becomes essential when noise is generated on a regular basis. This multitude of sounds results in discomfort for the people working in the cleanroom. In response to this situation, Kaizen Airtech Solution offers solutions recognized for their sound absorption and attenuation performance.

Area of applications:

- Healthcare
- Life Science
- Medical Device Manufacturing
- Pharmaceutical
- Food Packing & Bottling Lines
- Nano-Technologies
- Nuclear & Atomic Energy
- Defence & Aerospace
- Oil & Deep-Sea Exploration

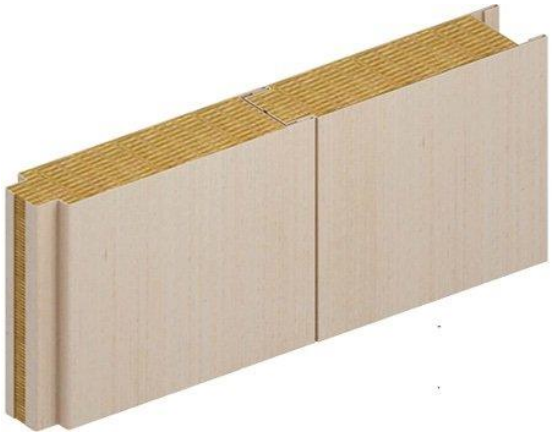
Noise Control Panel:

The working environment can be noisy depending on the activity and the processes that takes place there: handling of bottles, noisy machines or packaging areas are activates that often generate a strong noise nuisance.

Our acoustic panels are made of sound absorbent material. It reduces noise and reverberation.

These anti-noise panels are used in the construction of a soundproofing partition to improve the acoustic comfort of your premises.

Sound is an auditory sensation resulting from the vibration of a body or shocks producing a rapid variation in air pressure; a wave that propagates and is characterized by its frequency expressed in hertz (Hz) and its sound pressure expressed in Pascal (Pa). Our anti-noise range, which combines acoustic panels and other solutions to combat noise pollution, is specifically designed to stop the propagation of this hertz wave.



Rockwool panel

The Acoustic ceiling, anti-noise solutions:

Efficient sound solution:

Our acoustic ceiling is composed of a sound absorbing panel. This panel is itself composed of a perforated facing combined with a specific thickness of sheet metal and a specific density of rock wool. It is thanks to these holes that part of the sound can be absorbed by the wall.

The facings are made of galvanised steel sheet with one or two perforated, smooth or slightly ribbed sides, covered with a polyester lacquer.

Acoustic Doors to reduce noise discomfort:

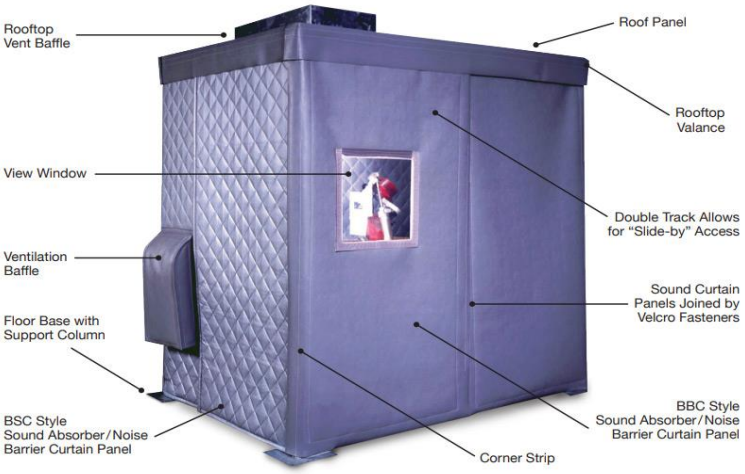
Numerous studies have shown that an optimized acoustic environment improves the performance and general health of employees. All hard surfaces such as floors and partitions (removable or not) reflect sound and increase the general sound level by diffusing disturbing sounds throughout the room. The sound level can be too high and sometimes even directly harmful. The combination of soundproof partitions, doors and ceilings ensure that your environment has low acoustics.

The sound volume is reduced between two adjacent walls. This implementation is very important for rooms such as research laboratories, operating rooms, recovery rooms or in certain industries. Acoustic systems meet all the requirements for indoor environments.

➢ In-Plant Noise Enclosure:

Industrial Sound In-Plant Enclosures are available in Complete or Partial enclosures. Our Noise Enclosures can be floor mounted, ceiling mounted, wall mounted, or suspended from a roof deck. When using a complete four-sided enclosure with a roof, the noise reduction can exceed 20 dB (A) while still offering access, visibility and ventilation.

Partial Noise Enclosures are defined as a barrier wall, two or three sided enclosure, or a four sided enclosure without a roof. Noise reduction can exceed 15 dB (A) on a partial enclosure utilizing our Barrier Backed or Barrier Septum Composites. Standard components are utilized to offer custom enclosures to meet your specific application.



Sound Curtain Systems

Sound Seal's sound curtain systems offer significant noise reduction with high STC and NRC acoustical ratings. They can be supplied as a partial or complete enclosure around noisy industrial equipment including; Compressors, Pumps, Generators, Blowers, Fans, Granulators, Presses.

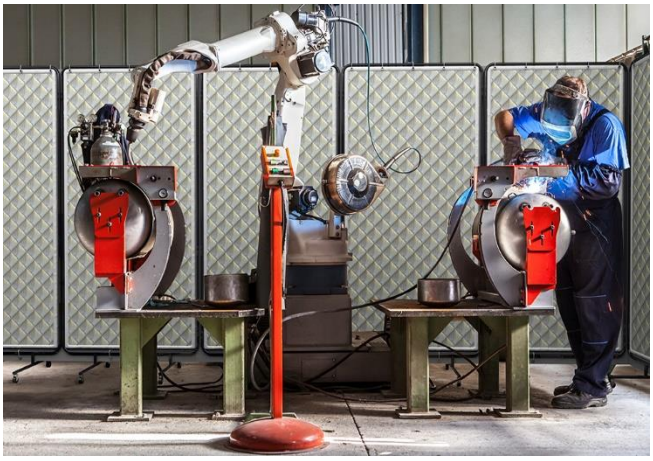
Also suitable for larger complete enclosures including: Manufacturing equipment, Test Chambers, Machinery Enclosures.

Portable Acoustic Enclosures

Sound Seal's portable acoustic enclosure combines high-performance noise barrier / sound absorption sound curtain panels with a steel tube frame, complete with built in locking casters for easy mobility.

This sound curtain system provides up to 15 dB reduction in mid-range frequencies. They can be supplied as a partial or complete enclosure around noisy industrial equipment including compressors, pumps, generators and more.

Portable Acoustic Screens

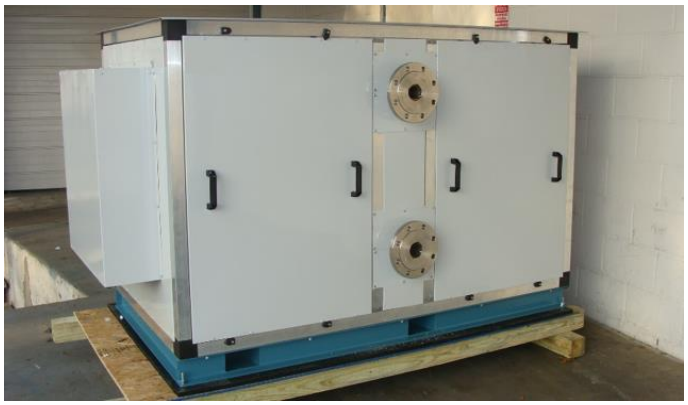


Sound Seal's Portable Acoustic Screens can be used individually or in groups to form partial noise enclosures, offering complete mobility and maximum accessibility. They consist of a rugged powder-coated tubular steel frame combined with our high-performance BBC (Barrier Backed Composite) or BSC (Barrier Septum Composite) noise barrier/ sound absorption curtain panels and heavy duty casters.

➢ Acoustic Canopy:

We have many different types of bespoke canopies for both internal and external locations and for many different types of plant and machinery including transformers, compressors, gas turbines, diesel generators, test rigs and many others, all of which require various types of heating and cooling ventilation systems.

Our design is such that canopies are simply lifted and lowered over the noise source limiting site works and usually negating the need for any site modifications. Our canopies are factory assembled and finish painted, acoustic doors, access hatches and removable sections are all pre-designed and incorporated at factory build stage prior to shipment.

Typical Acoustic Enclosure Applications:

- **Compressor Enclosures** provide a simple and cost effective solution for noise reduction of air compressors.
- **Diesel and Gas Generator Enclosures** are an effective shield from noise-making generators and machinery.
- **Personnel Noise Shelters** provide outstanding noise reduction and create a quiet comfortable workspace for staff at the heart of any manufacturing or industrial operation.
- **Sliding Acoustic Covers** contain noise emissions from industrial plant and allow easy access during maintenance or replacement.
- **Soundproof Observation/Control Rooms** and Offices provide staff with a quiet working environment and protect them from the risk of hearing damage due to noisy plant and machinery.
- **Test Cells** protect test engineers from noise emanating from routine production line testing of products and components.