

# Power Generation

## Products & Services



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making the world a quieter place



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A guide to products and services provided by IAC Acoustics to Diesel & Gas powered Generator suppliers.

- Generator Installation.
- Bulk Fuel Storage.
- Fuel Systems.
- Exhaust Silencers and Ducting.
- Plant Room Ventilation & Acoustics.
- Acoustic Enclosures.

Across the World IAC Acoustics has been providing noise reduction solutions to the power generation industry for over 50 years. We are able to provide individual components or a complete package for your generator installation.

# Generator Installation

## Engineered Solutions

Our Engineers, Project Management team and site personnel, through a collaborative approach, will provide you with solutions for the most challenging of installations. We have a wealth of experience that encompasses installations carried out within the most difficult of circumstances and with little margin for error.

## Working Together Safely

We work meticulously to ensure that all work is carried out with the safety of our own people, our client's people and all contractors and suppliers with whom we work, in mind.



## Bulk Fuel Storage & Fuel Systems



IAC Acoustics supply and install both in-ground and above ground bulk fuel storage and associated pipework. Our Engineers can assist with tank and piping design so that space on site is optimised.

Our installation service includes placement of the tanks and supply and installation of both in-ground, polyethylene composite, pipe and above ground steel pipe. We offer reliable site-work with skilled labour and fully equipped dedicated vehicles. Our site work experience extends from small rapidly executed contracts to larger multi-disciplined contracts. We have many satisfied clients nationwide.

Our factory is fully equipped to cope with pipe-bending, welding, metal fabrication and assembly so that on-site fabrication is minimised.

We work diligently to ensure that all work is completed in accordance with the relevant codes and standards. We aim for the very highest standards, from manufacture, through to installation & commissioning. We have achieved a very high level of quality for our clients through rigorous policies which place quality achievement foremost.

Quality is achieved by employing trained pipe fitters and welders qualified to ASME Standards in MMA & TIG.

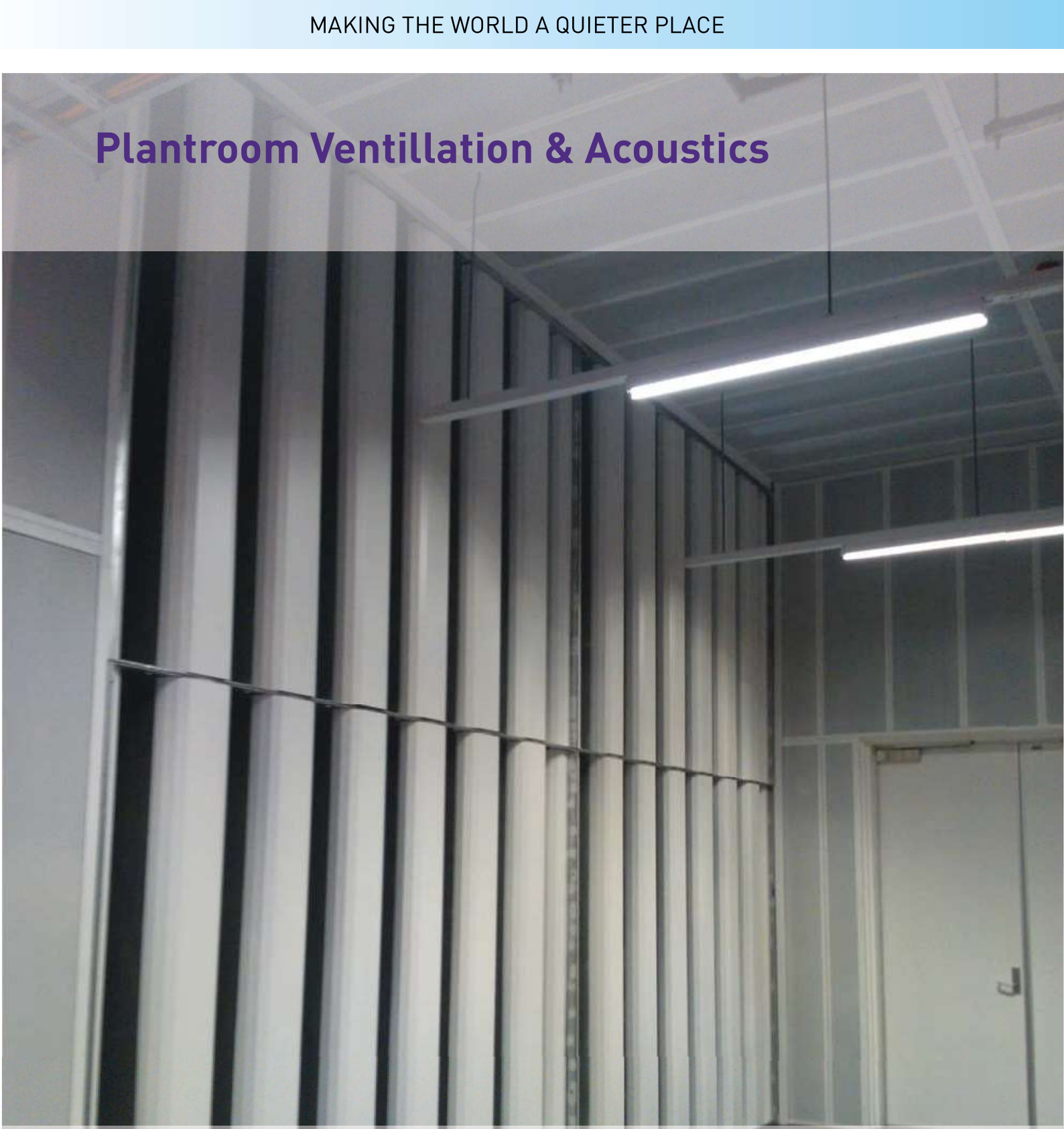
## Exhaust Silencers & Ducting



Engine exhaust silencers from IAC reduce engine exhaust noise from all types of internal combustion engines including petrol, diesel or gas. Our exhaust silencers have the following key characteristics and attributes:

- Specific applications: co-generation, containers, marine, rail, generation unit (backup, primary, no break).
- Diverse material types to suit application
- Radial or axial intakes
- To satisfy the current environmental requirement, all silencers can be supplied with catalysts or selective catalytic reduction (SCR) systems
- Standard and Bespoke Engine Exhaust Silencers
- In addition to our range, IAC also offer special or tailor made silencers to suit customer specific requirements.
- Our standard engine exhaust silencers are available in stock and offer a noise reduction of 15dB(A) to 50dB(A) using single units. However, if a greater noise reduction is required then this is possible by the use of multi-stage units.
- A full accessory range of flanges, bellows, elbows, gaskets, nuts/bolts are available to compliment the silencer range. Other options include:
  - The ability to integrate catalytic converters into the silencer casing,
  - Spark-arrestors are also available and can be supplied separately or integrated in silencers to comply with electrical and mechanical equipment for use in explosive atmospheres (ATEX) standard.

## Plantroom Ventillation & Acoustics

A photograph of a plantroom interior. The room features vertical acoustic panels on the walls and ceiling, designed for noise reduction. Fluorescent lights are mounted on the ceiling, and a door is visible on the right side of the frame. The overall environment is industrial and functional.

IAC Acoustics provide a complete solution to all ventilation requirements for enclosed diesel generator sets including attenuators, acoustic louvres, dampers, ducting and fans. These products serve the purpose of ensuring the correct level on ventilation is achieved, whilst minimising the effect of noise in areas adjacent to the plant room.

In addition to the acoustic requirements for a diesel generator set installation, IAC Acoustics is also able to provide a suitable level of filtration, ensuring the air entering the combustion chamber is as clean as possible.

IAC Acoustics Varitone™ panels are a rugged option to reduce reverberation in plantrooms where the panels may be subjected to impact.

## Acoustic Enclosures



**IAC's acoustic enclosures offer the following benefits and key features:**

- Vibration isolation, noise-controlled, shock-resistant systems
- Air inlet drive for combustions (filtered air optional)
- Exhaust gas removal for combustion engines
- Indoor or outdoor applications
- Integration of lighting, ventilation, fire fighting systems, air-conditioning etc.
- Full installation service
- Modular solutions
- Easy access for operators and maintenance personnel

## After Treatment Exhaust Purification

Diesel particulate emissions are major contributors to smog over modern cities. Particulates have also proven to be associated with a range of health effects from exacerbation of asthma, bronchitis and pneumonia symptoms to retarded lung development. IAC Acoustics Exhaust Purifiers will reduce or eliminate particulate emissions. Retrofit of IAC Acoustics solutions are a viable and cost effective solution. IAC Acoustics have retrofitted thousands of mobile machinery with after treatment.

Inhalation of Carbon Monoxide emissions from diesel engines can be fatally dangerous in tunnels, enclosed spaces or places with poor ventilation. Carbon Monoxide is odourless and colourless. This means that CO Concentration levels can increase to dangerous levels without detection.

IAC Acoustics Purifiers employ catalyst elements to provide the exhaust purification solution for your diesel or CNG engines. With increasing demand for environmental and OH&S regulations for the equipment used in industry, IAC Acoustics helps its customers with its unique catalytic converter based solutions not only to meet these strict requirements but also keep their vehicles in service, reliably and cost-effectively.

IAC Acoustics Exhaust Purifiers are typically constructed using a coated substrate and a stainless steel housing.



IAC Acoustics purchase substrates and fabricate the housings to suit the application. The substrates can be full soot filters or simple oxidising catalysts. They can be tuned to suit marine diesel or on road diesel.

All IAC Acoustics purifiers remove dangerous and offensive gasses from the exhaust. More specifically they all remove carbon dioxide and hydrocarbon emissions. However IAC Acoustics can offer a more tailored exhaust purifier for any application.

## Experience Pool

IAC Acoustics have been in the acoustics industry for 60 years.

They have a wealth of experience to draw from and understand factors that are important in the industry.

1. Service
2. Performance
3. Quality
4. Cost effectiveness

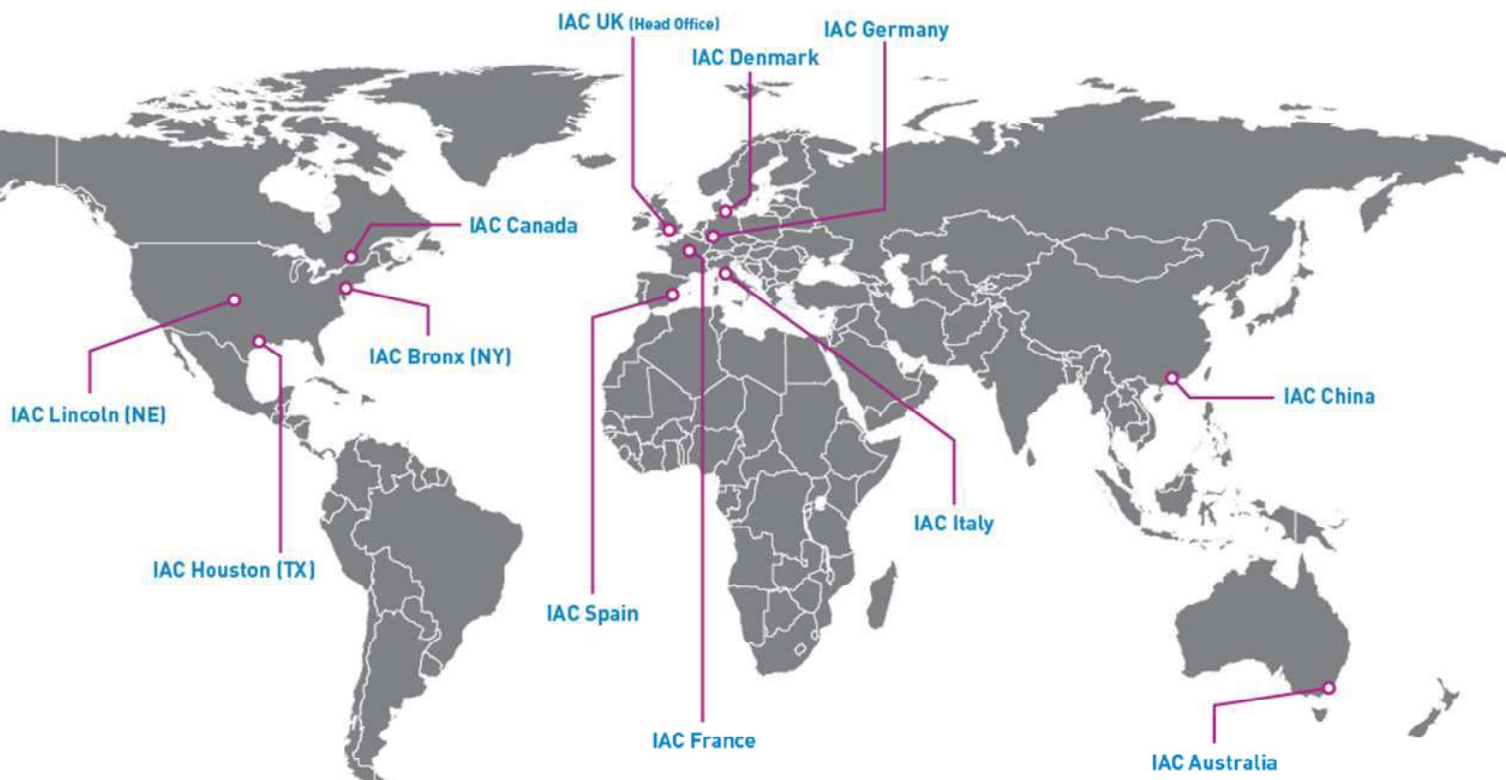
They continuously and actively seek to improve in all 4 areas.

## Quality is Everything

Across the board IAC Acoustics have ISO9001 quality assurance certification

Many site are working towards ISO14001 and ISO 18001 certification. Therefore you can be assured that your product will be manufactured in a quality facility with consideration for safety and environmental impact.

IAC Acoustics is proud of the quality of it's workmanship. Continual improvement for a large part of the way IAC Acoustics manages it's business.



## Worldwide Manufacturing Options

IAC Acoustics have manufacturing facilities located all around the globe that can be utilised to produce power generation products. Depending upon required parameters be it price, lead time, quantity etc a suitable facility is available.

IAC Acoustics have capacity and flexibility to meet your operational needs. Global manufacturing is a genuine option that we can offer.

# Contacts & Countries

**We are global and local**



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