



Acoustic Systems

Aerospace / Marine Industries





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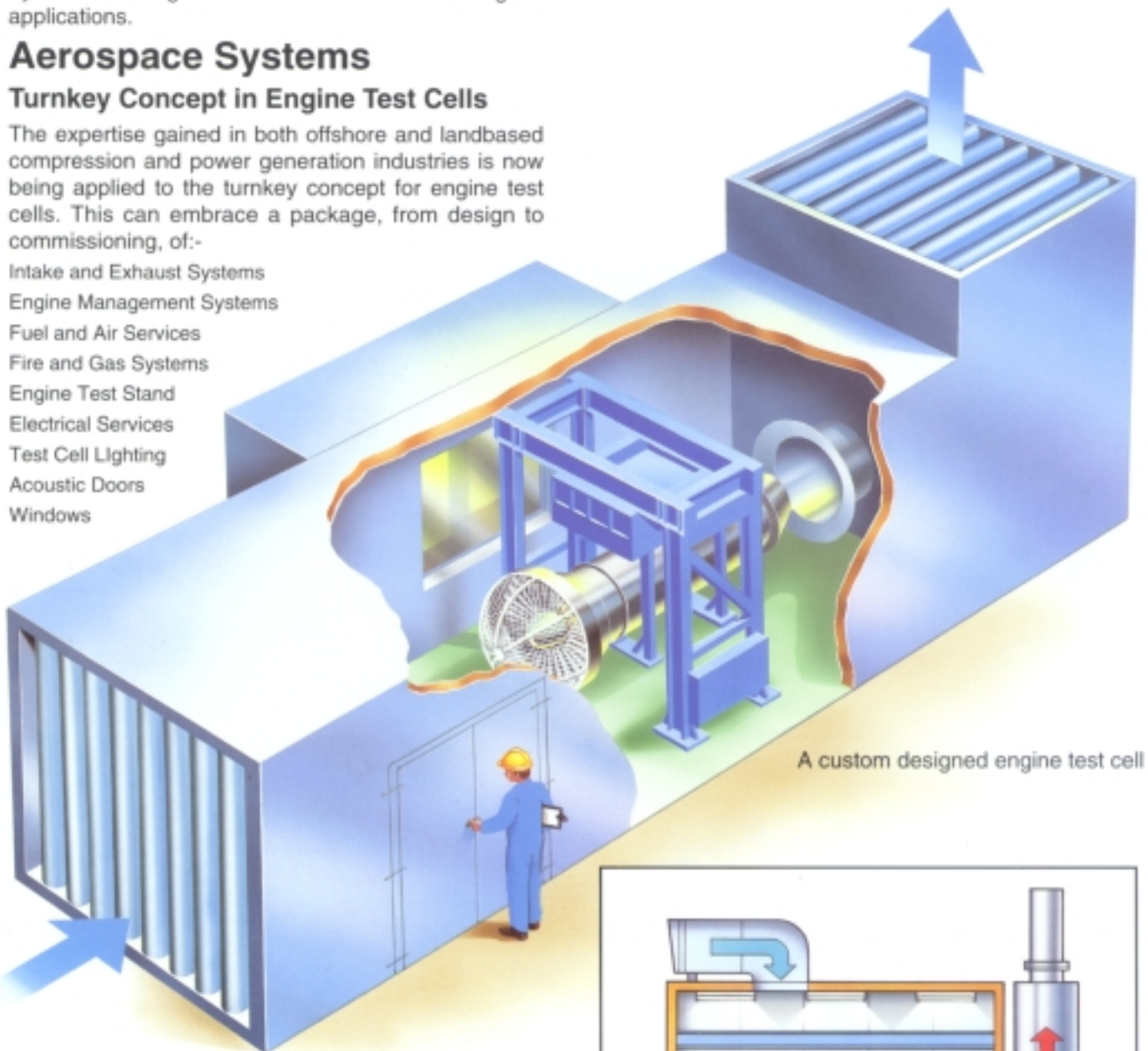
Under the AAF brand name, SnyderGeneral has become, over the last twenty years, one of the market leaders in custom designed air filtration and acoustic systems for gas turbine and diesel engine applications.

Aerospace Systems

Turnkey Concept in Engine Test Cells

The expertise gained in both offshore and landbased compression and power generation industries is now being applied to the turnkey concept for engine test cells. This can embrace a package, from design to commissioning, of:-

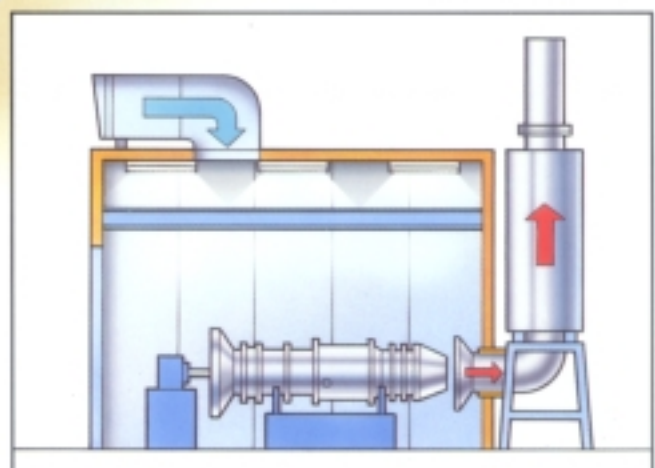
- Intake and Exhaust Systems
- Engine Management Systems
- Fuel and Air Services
- Fire and Gas Systems
- Engine Test Stand
- Electrical Services
- Test Cell Lighting
- Acoustic Doors
- Windows



A custom designed engine test cell

Modular Test Cells

These can be designed and constructed from economical standard heavy duty acoustic wall and roof panels, together with inlet filters and silencer, ventilation systems, exhaust silencers and supporting steelwork.



A typical cross sectional view of a modular test cell



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Marine Systems

For shipboard applications, the company can design and manufacture, for both gas turbines and diesel engines, a wide range of air filter, acoustic and related systems. These include:-

Downtake Systems

Salt Separator System
Inlet Flare and De-Icing System
Inlet Silencer
Transition Piece
Expansion Bellows

Acoustic Enclosure

Module Ventilation
Fire and Gas Systems
Lighting
Vibration Mounting

Uptake Systems

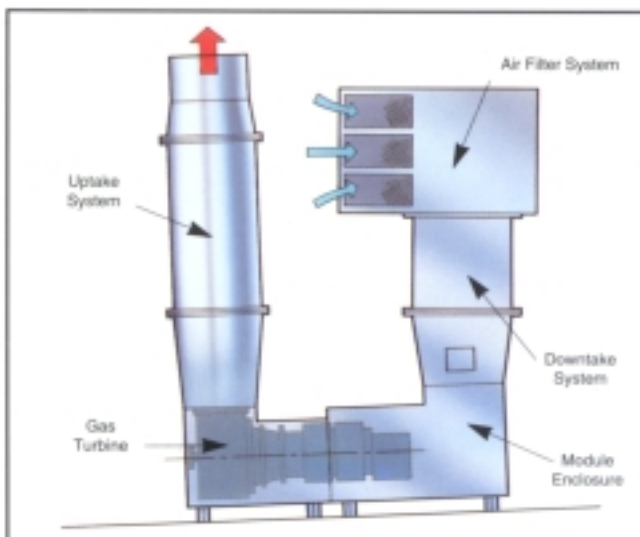
Exhaust Silencer
Exhaust Ductwork
Expansion Bellows



Two intake silencers for a gas turbine application.



An exhaust silencer in stainless steel.



A typical downtake and uptake layout

Intake Silencing

Manufacturing standards for air intake silencer systems are well established, with designs capable of handling high intensity sound levels and extreme mechanical stresses under possible surge and shock conditions.

Exhaust Silencing

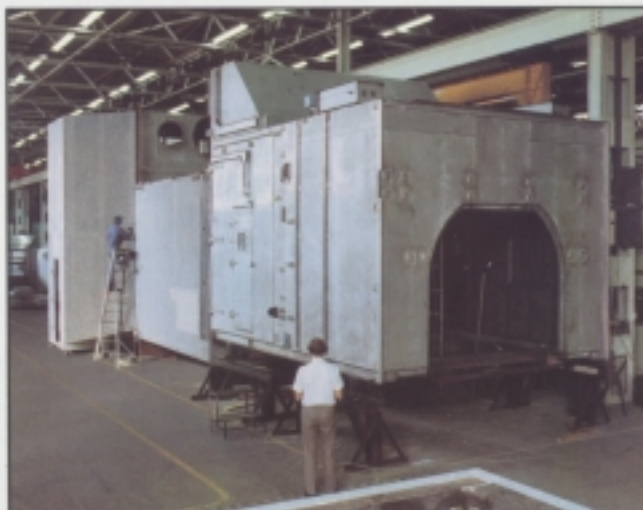
Exhaust silencers and ductwork systems require individual mechanical design to withstand shock. In addition they provide high attenuation at low frequencies and high volumetric flow rates.

Acoustic Enclosures

Thermal, acoustic enclosures and plenum chambers have been designed and built for a wide range of engines and specified requirements, particularly environmental and shock conditions in shipboard applications.

Manufacturing Facility

SnyderGeneral's principal manufacturing facility in the UK is at Cramlington, Northumberland, where application engineering, acoustic analysis, mechanical and electrical design, project management, manufacture and inspection by certifying authorities, is undertaken in a modern 17,000m² factory.



An acoustic enclosure under construction for an RB211 gas turbine package.



An aluminium acoustic enclosure for an LM2500 package.



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