



SISTEMI INDUSTRIALI

The noise of silence

GAS TURBINE SOLAS ACOUSTIC ENCLOSURE

Acoustic enclosures for the gas turbine industry have to comply with a number of stringent safety requirements including structural strength, fire resistance, and sound insulation. This has led traditionally to heavy enclosure designs. Thanks to FEM design tools and complete lab tests to optimize acoustic performance, Sistemi Industriali has developed a particular type of Gas Turbine enclosures, which are extremely light, versatile and highly suitable for marine installation, FPSO plants and off-shore platforms.

Our enclosures comply with the increasingly strict fire proofing features required for these particular applications. They give passive fire protection by using panels certified as for "**SOLAS**" regulations, the International Convention for the **Safety Of Life At Sea**, up to **A60**



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resistance class. Sistemi Industriali has been able to meet the extremely demanding SOLAS regulations; therefore our enclosures provide all features to maximize shipboard maintainability and parts replacement downtime, such as a split compressor casing, in-place blade and vane replacement, in-place hot section maintenance and other.

This particular type of enclosure always provides the highest reliability level, even when it is installed in the most critical weather conditions. For this reason, austenitic stainless steel

is used to build enclosures and all their components. Also the insulating materials are designed, approved and certified for passive fire protection for marine use. Moreover, these enclosures are provided with a fire and gas detection system and fire fighting system, which offer the highest safety and protection levels for the machineries installed inside. Sistemi Industriali **Fi-RE** Enclosure, an integrated protection system against fire and noise.



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