ULTRASONIC SYSTEMS

PREVENTING BIOFILM FORMATION &
RESPECTFUL OF THE MARINE ECOSYSTEM

PLEASURE CRAFTS & PROFESSIONAL MARINE

www.gomair.fr
Anti-dirt and anti-fouling ultrasonic devices: high-frequency, low-power sound waves allow the destruction of biofilm and provide an ongoing maintenance of ship hulls, propellers and tanks. The installation of an ultrasonic system prevents the growth of algae and microorganisms, attachment shells, the deposition of pollutants, limestone, tartar, salt and rust.

**A MAJOR CUT IN MAINTENANCE COSTS & FUEL EXPENSES**

The glide of boats has improved and their water availability is enhanced. You dramatically lower the cost of your boat’s maintenance: fairing operations, renewal of antifouling paints, immobilization and labor costs.

The highest navigation speeds are maintained. The boat permanently retains its original weight. Your fuel consumption is cut from 20 to 30%. Your boat is in the water for several years and no longer requires the cleaning of hulls, propulsion systems, box coolers and tanks.

**A 20-30% DECREASE IN YOUR FUEL CONSUMPTION**

**THIS ULTRASOUND SYSTEM IS THE MOST POWERFUL & SAFEST ON THE MARKET**

This ultrasonic system is the most powerful & safest on the market with 30% more power. It produces a wide range of ultrasonic frequencies that can prevent all types of fouling.

Needless to adjust the frequency. It does not interfere with electronic devices of navigation and other ultrasonic devices (fish finders).

With a low energetic consumption, an automatic battery monitoring and a permanent record of data, you get the safest ultrasound system on the market. The system should be based around the clock. It runs on 12, 24, 110 and 220 volts.

**WITH DUE RESPECT FOR THE MARINE ECOSYSTEM & SUSTAINABLE DEVELOPMENT**

By opting for an antifouling ultrasound system, you contribute to the maintenance of marine biodiversity. Traditional antifouling paints are no longer renewed. Water is preserved from toxic chemicals that could disrupt the marine life. The environment, the health of people and animals are respected. The ultrasonic process is part of a sustainable development. Logic it minimizes chemical and energy consumption. It contributes to the economic viability of marine activities with an immediate return on investment.
A RANGE OF POWERFUL & MULTI-USE ULTRASONIC DEVICES

Gom Air offers a wide range of ultrasonic devices with a dedicated programming, according to the facilities to protect biofilms:

According to the areas needed more transducers may be required. Gom Air ultrasonic system is flexible in its use, compact, easy to install, for high performance even on very thick materials.

INNOVATIVE DEVICES THAT EXPLOIT A PHYSICAL PHENOMENON

Ultrasonic cleaning uses the physical phenomenon of cavitation. The ultrasound generator emits electrical signals which will be converted to sound. Transducers transmit waves in a liquid. Sound pressure is marked by depression phases alternating with phases of overpressure. It is during the depression phase that cavitation bubbles are formed. The microbubbles implode as a multitude of micro-jets taking off dirt and various contaminations of surfaces to be treated. The microbubbles emit high thermal and kinetic energy that causes highly effective shock waves.

CUSTOM-MADE INSTALLATION & CUSTOMIZED SOLUTIONS

In line with your needs, Gom Air installs antifouling ultrasonic devices taking into account the specificities of your boat. The implementation of the system is rapid and requires no drilling. For optimum performance, Gom Air recommends custom installation. Gom Air carries out implantation studies of ultrasonic devices, in accordance with your specifications. Gom’Air skilled technicians provide the installation, commissioning solution and user training. Your initial investment is profitable in the short and long-term with efficient and reliable devices in time.
BENEFITS OF GOM’AIR ULTRASOUND DEVICES

- 20-30% decrease in fuel consumption
- No use of harmful and expensive chemicals
- Lower maintenance costs
- Respectful of the marine ecosystem
- Profitability of the initial investment in the short-term
- Over 30% more power
- High-performance transducers with the HS-related technique
- Wide range of ultrasonic frequencies
- No frequency adjustment
- Constant frequency, amplitude and power
- Process safety with innovative protection features
- No interference with other electronic or ultrasonic devices
- Intelligent battery monitoring
- Data control, integrated warning system
- System with very low-energy consumption
- System 100% waterproof
- 5 year warranty EC-made
- EMC compliance certificate (no damage to the environment)
- Range suitable to all hulls, propellers, tanks
- A personalized location-based study
- Quick and easy installation
- User training
- Contribution to environmental conservation
- Commitment to sustainable development

EXPERIENCE & EXPERTISE IN INNOVATIVE ULTRASONIC SYSTEMS

Gom’Air offers innovative technological ultrasonic systems adapted to watercrafts and pleasure crafts. The expertise of Gom’Air in ultrasound allows you to access cost-effective cleaning solution and preventing biofilms, respectful of the marine environment and committed to sustainable development. Gom’Air ultrasonic devices meet the highest performance requirements, quality and reliability. Gom’Air is an innovative partner who studies in consultation with its customers solutions tailored to the specific requirements and each context of use. Gom’Air distributes and installs its range of ultrasonic devices in France and Saudi Arabia for the maritime sector, domestic applications and desalination plants.

THEY TRUSTED US

[Images of logos for Piriou, DCNS, Bourbon, etc.]