

GROUPE BOËT : YOUR ACOUSTIC PARTNER

With 60 years of experience, the Groupe Boët has evolved to become one of the key players in noise pollution management. Its skills, recognized by its most demanding clients, make the Boët Group the acoustic partner of the naval industry.

The Groupe Boët is a designer and manufacturer for major clients such as engine manufacturers, engineering firms, installers, architects, shipyards...

It offers a wide range of standard products as well as custom acoustic solutions for:

- Onboard / backup generators
- Propulsion engines
- Ventilation networks...



THEY TRUST US



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ACOUSTIC PARTNER OF THE NAVAL INDUSTRY EMISSIONS CONTROL

AREAS OF EXPERTISE

OEM & SHIPYARD

- Standard solutions on stock
- Tailor made solution
- Ease of installation
- Fast delivery
- DNV & BV MARINE certifications



From 15 to
60 dB



Custom
dimensions



Mass



Anti-pollution

INTEGRATED EMISSION CONTROL SYSTEM

In the marine sector, adherence to stringent emissions standards, including noise regulation and emission (IMO Tier III, EU Stage IV and stage V) is a critical requirement for propulsion engines and onboard gensets.

Modular, compact and regulation-compliant, Groupe Boët has developed a complete emission control architecture, based on a standardized modular design, engineered for integration into maritime power systems. The system configurations are as follows :

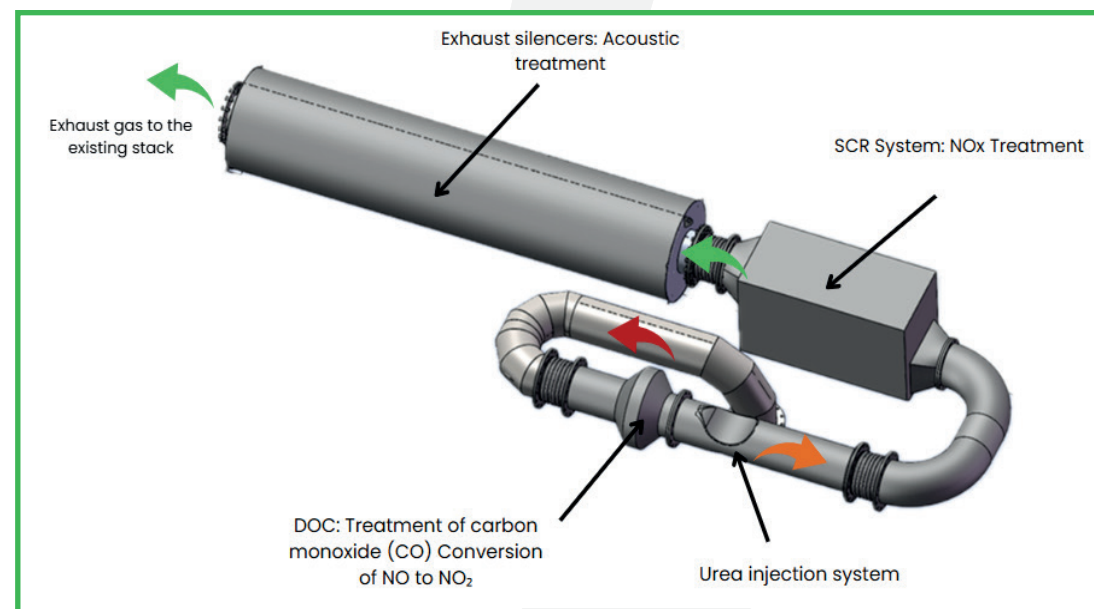
- Acoustical performance up to 60dB noise reduction
- IMO Tier III : SCR-only (Selective Catalytic Reduction) system
- Stage IV / Tier 4 Final : SCR + DOC (Diesel Oxidation Catalyst) + ASC (Ammonia Slip Catalyst)
- Stage V : DOC + DPF (Diesel Particulate Filter) + SCR + ASC

The system is optimized for marine applications, featuring:

- Compact footprint for constrained installation envelopes
- Robust mechanical structure, resistant to thermal cycling and vibration (anti-deformation design)
- High configurability, including multiple inlet/outlet orientations (0°, 90°, 180°)
- Pipe diameters ranging from DN 200 to 600
- Component modularity, with over 80% part commonality across system variants

COMPLIANCE WITH IMO TIER III, STAGE IV & V: A TECHNICAL IMPERATIVE

BOËT Group's approach prioritizes total line integration. Each components, including SCR reactors, DOC/DPF units, silencers, elbows, and ducts, is designed to minimize pressure drop, ensuring optimal backpressure, acoustic attenuation, and emissions control performance.



Technical advantages :

- Tool-free maintenance : Access panels are integrated within the module envelope, eliminating the need for external lifting equipment
- Extended service intervals : All components are engineered for durability and low maintenance, aligned with maritime duty cycles.
- Scalable solution : The architecture supports multiple regulatory configurations and simplifies lifecycle management through reduced component variation.

OUR SILENCER PRODUCT RANGE

- Standard, adapted or tailor-made SM Evo exhaust silencer
- Air intake silencer
- Spark arestor silencer
- Pollution control silencer (particulate filter, catalyst)
- Ventilation silencers

Main characteristics:

- Manufacturing : standard steel, special or stainless steel
- Standard silencers available in stock
- Acoustic performances from 15 to 60 dB(A)
- Low pressure losses
- Silent cylindrical, oval or rectangular shapes to facilitate installation on board

Available options:

- Elbows
- Supports
- Compensators
- Vibration isolators
- Thermal insulation...



This emission control solution is designed for marine engine OEMs and system integrators facing complex regulatory requirements. With BOËT Group's solution, stakeholders benefit from a proven, compliant, and modular technology solution engineered for integration, performance, and lifecycle reliability.

BOËT GROUP'S ENGINEERING SOLUTION & MANUFACTURER:

In a global engineering approach, we consider all the constraints and requirements of our clients related to the implementation of our acoustic solutions for the maritime industry. We conduct aero-acoustic simulations, mechanical analyses, and pulsation analyses to define the constraints applied to our equipment. We define solutions that limit the stresses on client interfaces and ensure qualification according to the required standards and codes.

Groupe Boët ensures the management of projects from design to completion:

