



## **MARELCO**<sup>™</sup> LIBERATOR

An EMCS Industries Ltd. Product

MARELCO<sup>™</sup> Liberator is a game-changer for vessels that are always in transit (i.e. ferries, tugs and cruise ships) and facing marine fouling problems.

Rather than in the sea chest itself, anodes are installed in a small tank in the engine room in a fully accessible tank but provide the same protection against fouling and corrosion. The tank pulls seawater from the sea chest using a pump and delivers the treated water back into the sea chest or piping system. The anodes in the tank treat the sea chest water in the internal seawater systems and niche areas with copper and aluminum ions, acting like anodes in the sea chest.

The tank is small enough to be located anywhere space is available. The above-deck accessibility means that **NO DRYDOCK** is required for anode replacement. Once the tank has been installed depleted anodes, can be replaced and maintained 24/7 significantly extending drydock intervals. The Liberator is designed for various applications, including the protection of sea chests, scrubber systems, box coolers, piping systems, and even land-based applications like desalination plants. It can provide fleet standardization when it comes to anode size.

The MARELCO<sup>™</sup> Liberator is a turnkey solution, including a control panel, MARELCO<sup>™</sup> tank, pump, and strainer.



## APPLICATIONS

- Marine vessels of all sizes and applications
- HVAC
- Floating Production Storage + Offloading



## BENEFITS

- Marine growth protection of sea chest
- Marine growth protection of internal seawater systems + niche areas
- Maintains efficiency of the system/vessel
- Increases fuel efficiency of vessel
- Reduces vessel drag + weight
- Reduces carbon emissions due to fuel efficiency
- Reduces the translocation of invasive species
- Possibility of extended drydocking (as not required for anode replacement)
- May be maintained 24/7 while vessel is in service
- Can be retrofitted
- Can be specified in the design
- Reduced install time + Reduced labor costs



[View Product Video](#)



## Contact Us

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Protecting internal seawater systems and hull from biofouling and corrosion is key to improving vessels' fuel consumption, energy efficiency reducing carbon emissions. These key benefits will help vessel owners/operators help to achieve EEXI + CII regulations.

We are committed to Goal 14 (Life Below Water) of sustainable development laid out by The United Nations Department of Economic and Social Affairs. We continue to invest in research and development to support our mandate to be accountable, respectful, and look after the world's vulnerable ocean ecosystems while contributing to the Blue Economy.

