

# ICAF Systems for yachts



## MAGIC2 – Marine Growth Prevention System for Steel and Aluminium hulls

**The MAGIC2 system eliminates blockages in seawater engine cooling systems caused by marine growth such as mussels and barnacles and has been designed for larger luxury yachts with a number of seawater inlets.**

Marine growth in sea chests, box coolers and seawater piping systems is a potential threat for the performance and condition of your ship or installation. Blockages caused by barnacles and mussels are expensive and time consuming to remove and can have serious consequences. Engines will run at abnormally high temperatures, resulting in unnecessary increased fuel consumption and lower performance.

To combat this risk the MME Impressed Current Anti-Fouling (ICAF) was developed. Once installed it provides low maintenance and continuous (dual) protection against most hard and soft foulings as well as corrosion.

The MAGIC2 utilizes an impressed current, employing steel cathodes and sacrificial copper anodes which are connected electrically to a compact control power unit. The system generates mainly copper ions by electrolysis in seawater, these ions will flow through the system creating an environment which prevents micro-organisms to settle.

The effectiveness of the fouling prevention mainly depends upon the conditions of the water and its flow. Because the latest MME Marine Growth Prevention System (MGPS) can communicate with pumps, PC and Vessel Management Systems, it offers an intelligent solution for fouling and corrosion problems that occur in (cooling) water systems.



courtesy of Oceanco



### Key Benefits of the MME ICAF System:

- Efficient operation of cooling water (and, if applicable, fire fighting system)
- Dual action function; anti-fouling prevention and corrosion protection
- Easy to install at retrofit or during new-construction
- Easy to maintain as of automatic operation
- Cost effective, elimination of pipework cleaning
- Several ranges to suit vessels of every size
- Better protection against fouling because of regular boost

