



ANTIFOULING + ANTICORROSION SOLUTIONS

	GUARDIAN	LIBERATOR	COMMANDER	WAVE	DEEP	EXCHANGER	ICCP
Marine growth protection of sea chest	✓	✓	✓	✓	✓	✓	
Marine growth protection of internal piping systems	✓	✓	✓	✓	✓	✓	
Maintains optimal seawater circulation	✓	✓	✓	✓	✓	✓	
Above deck application - space saving		✓	✓	✓		✓	
Fleet standardization		✓	✓	✓		✓	
Anode standardization		✓	✓	✓		✓	
Possibility of extended drydocking		✓	✓	✓		✓	
Maintenance by ship personnel while at sea		✓	✓				
Reduced installation time		✓	✓				
Reduced labor costs		✓	✓				
Lloyds registered safety cap designed	✓	✓	✓	✓	✓	✓	
Can be specified in design or retrofitted	✓	✓	✓	✓	✓	✓	✓
Turnkey solution	✓	✓	✓	✓	✓	✓	✓
Corrosion control of internal piping systems	✓	✓	✓	✓	✓	✓	
Corrosion control of hull							✓
Significantly more protective than sacrificial anodes							✓



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Improves pump efficiency					✓		
Low occurrence of stray current interference on other structures					✓		
Increases fuel efficiency of vessel	✓	✓	✓	✓	✓	✓	✓
Reduces Vessel Drag	✓	✓	✓	✓	✓	✓	✓
Reduces Vessel Weight	✓	✓	✓	✓	✓	✓	✓
Reduces carbon emissions due to improved fuel efficiency	✓	✓	✓	✓	✓	✓	✓
Sustainable approach to marine biofouling				✓			
Reduces the translocation of invasive species	✓	✓	✓	✓	✓	✓	✓
Maintains efficiency of the system/vessel	✓	✓	✓	✓	✓	✓	✓
Maintains optimal seawater circulation	✓	✓	✓	✓	✓	✓	
Survey credited if product purchased	✓	✓	✓	✓	✓	✓	✓



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.

