

# PRODUCT CATALOGUE

Marine and Industrial Equipment and Products



# MEET OUR PRODUCTS

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The manufacturing activity of EPE began in 1982 with the design and production of marine environment protection equipment from ships effluents. All products are certified by the relevant National and International Authorities and Classification Societies. Aiming at providing complete and reliable solutions for the environmental protection and safety systems, EPE cooperates with major strategic partners. We offer a wide spectrum of products which exceed our customers' expectations whilst building long term and loyal relationships.

## LIST OF PRODUCTS

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### *WASTE WATER TREATMENT*

#### **OIL WATER SEPARATION**

POSEIDON EC

POSEIDON FIT

POSEIDON i

#### **SEWAGE TREATMENT**

TRITON EC

### *BALLAST WATER TREATMENT*

ERMA FIRST BWTS FIT

### *WATER TREATMENT*

#### **FRESH WATER DISINFECTION**

ALIOS EVO

### *CATHODIC PROTECTION*

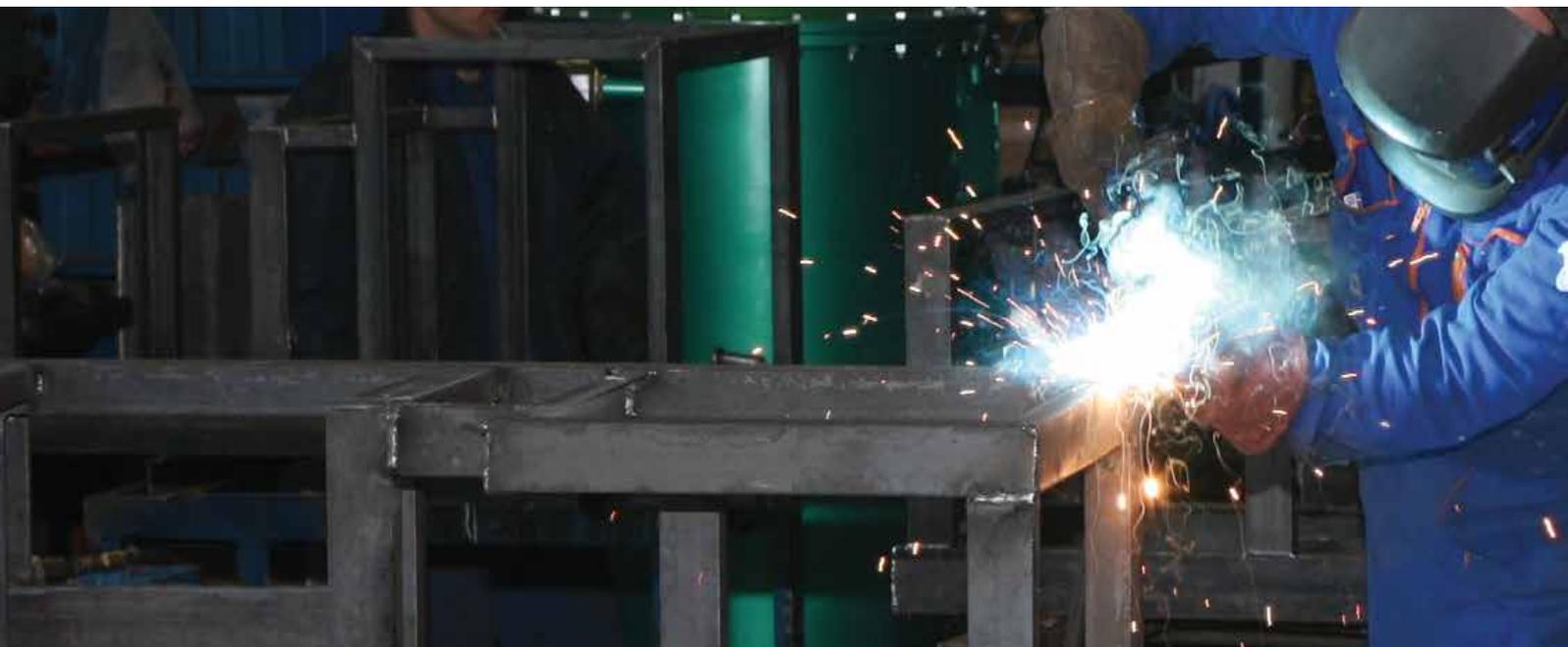
MARINE ANODES

ANTIFOULING ANODES

HARBOR ANODES

BRACELET ANODES

WIND FARM ANODES



# WASTE WATER TREATMENT



## OIL WATER SEPARATION

### POSEIDON EC



**POSEIDON EC** is a state of the art 5ppm Bilge Oil Water Separator. The unit is equipped with a specially designed electrolytic cell which operates on the principle of electrocoagulation, producing coagulating agents on demand for the effective heavy emulsion breaking and removal of contaminants. An effluent with an oil concentration of 5ppm or less is ensured at all times, being fully compliant with the latest IMO requirements and the Environmental Class Notations, being the resolution MEPC.107(49) and DNVGL CLEAN DESIGN Notation respectively.



### POSEIDON i



**POSEIDON i** is a newly developed equipment introduced to fulfill industry's needs for effluent's oil content cross-checking and deal with security issues arisen from poor OWS operation. It can be an add-on equipment to OWSs and is capable of accurately monitoring and recording the flow rate, the oil content of the final effluent being discharged overboard and the location of the ship every time such operation takes place. Data logging is simple, easy and can be downloaded and/or printed locally or remotely through satellite connection.



### POSEIDON FIT



**POSEIDON FIT** is a versatile 5/15ppm OWS, supplied with a loose pump that can be installed in various locations and has the capability for bilge transfer. It consists of two stages; the coalescer and the emulsion breaking unit. The coalescer, equipped with a self-cleaning filter, works on a continuous mode, by-passing the second stage and thus prolonging the lifetime of the filters. If the Oil Content Monitor measures an effluent with oil content of more than 4/14ppm at the 1st stage outlet, then the emulsion breaking unit begins its operation. The unit ensures at all times an excellent effluent quality, according to the latest IMO requirements and the Environmental Class Notations, being the resolution MEPC.107(49) and DNVGL CLEAN DESIGN Notation\* respectively. \*(For PF5.0)



## SEWAGE TREATMENT

### TRITON EC



**TRITON EC** is a purely electrochemical wastewater treatment plant. It is a completely chemical-free system meeting the requirements of IMO/MEPC.227(64).

TRITON EC is designed for waste water treatment on board merchant ships, Navy vessels, yachts, ferries, small cruisers, offshore platforms and other marine type applications.



# WATER TREATMENT



## FRESH WATER TREATMENT

### ALIOS EVO



**ALIOS EVO** is a proven alternative to the production of fresh water with evaporation, since there is no need for the operation of the main engine or the boiler of the vessels, thus minimizing energy consumption. The system is able to produce reliable fresh water from the desalination of sea or brackish water and can be configured (skid or loose mounted) with variable features in order to meet any customer requirements. ALIOS EVO is equipped with the CIP system as standard to facilitate maintenance. The produced water is constantly monitored with a TDS meter.



# CATHODIC PROTECTION



**POLCOR®** anodes are internationally well-known as the most reliable and cost effective anodes that have been used in major projects in ports in Europe, Singapore, China and U.A.E.

EPE manufactures aluminium and zinc anodes at various sizes and configurations, for vessels, yachts, offshore structures, pipelines, power plants and other industries.

Also, Antifouling Spare Anodes (Copper & Aluminium, Copper & Iron, Stainless Steel Cathode) as per your requirements for any kind of Marine Growth Prevention System on board.

Our flexible production line ensures very cost efficient rates in addition to our quality control system that guarantees reliable operation of POLCOR Anodes.



# BALLAST WATER TREATMENT



## FULL FLOW ELECTROLYSIS



**ERMA FIRST BWTS FIT** is an advanced modular system that was developed to exceed all the special installation requirements either for newbuild vessels or any retrofit projects. The major components of the system are a high-end backwash filter and an electrolytic cell with outstanding performance. Covering an extensive capacity range of 50-3740 m<sup>3</sup>/hr and being certified for operation in the most challenging conditions by the IMO, USCG and classification societies, ERMA FIRST BWTS FIT is an ideal solution for all types and sizes of ships.



ERMA FIRST BTWS FIT incorporates the most reliable and efficient filtration followed by a state of the art disinfection stage. Mechanical separation refers to a 40 microns automatic backwashing filter. The disinfection stage takes place in our own-design, highly customized electrodes, providing the appropriate amount of disinfectant agent whilst consuming minimum power. A special coating is applied on the electrodes, which are designed to minimize the production of harmful byproducts and have an extended life time of minimum 5000-6000 hrs.



# OUR COMPANY

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**Environmental Protection Engineering S.A. (EPE)** established in Piraeus in 1977, and offers a complete range of environmental protection services and products, including emergency response services for oil and chemical spills.

EPE provides contingency and preparedness services to all types of onshore and offshore facilities always in full accordance with all relevant legislation and industry standards.

By continuously investing in R&D, EPE is a leading company in designing and production of various types of marine equipment and systems such as bilge oil water separators, sewage treatment plants, potable water related systems, sacrificial anodes, antifouling and cathodic protection systems. EPE has also established trustful collaborations as a sale agent for sprinkler, sewage and stainless steel piping systems as well as other electronic equipment for ships.



## EXPERTISE

40 Years of Experience, Thousands of Incidents



## RESPONSIBILITY

First to Respond with Superior Solutions



## INNOVATION

Leading Environmental Technologies



## TOTAL SOLUTIONS

Total Environmental Solution Providers in East Med.

# CONTACT US

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For more information regarding our products please visit: [www.epe.gr](http://www.epe.gr)

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