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POSEIDON EC

Bilge Oil Water Separator

The patented electrolytic process is boosting agglomeration of emulsions at our industry benchmark OWS (Poseidon FIT). The high-end OWS ensures oil free water discharge under any condition. Certified by IMO RES, MEPC 107(49)

Defining environmental protection since 1977

Over "5000" installations. An unrivalled global network.

Quality
- Advanced electrolytic emulsion breaking stage
- Reliable operation
- Pressure type that fits all new-building designs
- Military applications version available
- Effluent oil content under 5/15ppm during testing

Efficiency
- Product lifetime cycle
- Minimum maintenance
- On-demand production of coagulants
- EC bypassing mode for prolonged operation

Sustainability
- Minimum production footprint
- Maximum utilisation of separated oil
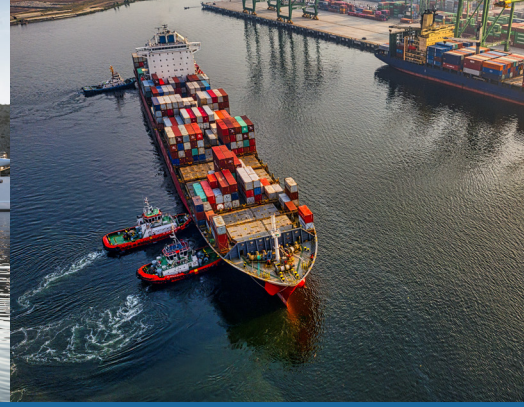- Protecting sensitive marine coastal ecosystems

Safety
- No chemicals
- Self-cleaning through backwash
- Fully automatic unattended operation

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Description

POSEIDON EC Bilge Oil Water Separator consists of three stages; the coalescer, the adsorber and the electrolytic emulsion breaking unit. The coalescer works on a continuous mode, by passing the second stage, and only when the oil detection monitor detects at the effluent of the coalescer oil content higher than 4ppm, then the electrolytic emulsion breaking unit begins its operation.

This unit is equipped with a specially designed electrolytic cell which operates on the principle of electrocoagulation, producing coagulating agents on demand for the effective emulsion breaking. Thus, an effluent with an oil concentration of 5ppm or less is ensured, according to the existing Environmental Class Notations.

POSEIDON EC's AI features offer an enhanced level of control over unauthorised or accidental discharges of untreated bilge water, with the use of data recording software that continuously monitors all vital information. Gathered data such as overboard flow, oil content, vessel position and current time, are securely stored and easily accessible by the owner, the crew or the port authorities during inspection. The OWS status and operation are evaluated in real time,with alarms and notifications thus preventing illicit discharges.

Product Range

Model	Dimensions	AI Features
5.0 m3/h.	3370 × 2075 × 2537	✔

AI FEATURES ON POSEIDON FIT

Artificial Intelligence Monitoring & Control

Advance data analysis
AI predicted notification alarms
AI predicted maintenance messages

Distance Monitoring

All signals
Bilge water overflow measurement (instant/total)

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