

Few words about us



ENVIRONMENTAL PROTECTION ENGINEERING S.A.

Environmental Protection Engineering SA is the leading Greek Manufacturer of Bilge Water Separators.

For more than two decades Environmental Protection Engineering SA has installed more than 4000 units and has been offering quality services to the shipping industry worldwide. Major shipyards from Far East and Europe as well as many reputable ship owners are preferably using POSEIDON separators for new buildings or for retrofit purposes.

Dedicated to its customers, EPE S.A. is in position to understand each customer's needs and develop for them the most cost effective, efficient and reliable products and services exceeding their corporate expectations.



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Oil and water
cannot stay
mixed... anymore

People...
Expertise...
Resources...
Technology



It's the new

POSEIDON EVO

less than 5ppm BILGE WATER SEPARATOR
Acc. to MEPC 107(49)

The challenge

The challenge

NEW GUIDELINES AND SPECIFICATIONS: The new requirements of MEPC 107(49) for machinery space bilges of ships that have been adopted by IMO, include an additional efficiency test for Bilge Oil Water Separators, compared to the previous resolution MEPC 60(33). This test refers to emulsified oils, often found in machinery spaces. This type of bilge water cannot be handled by a simple gravity separator since the oil and water particles are chemically bonded, and cannot coalesce to form larger droplets.

The solution

By aligning with the new IMO resolution MEPC 107(49), Environmental Protection Engineering S.A. developed a state of the art technology, the new **POSEIDON EVO**.

Taking advantage of an extensive know-how on the design and development of Bilge Oil Water Separators, EPE S.A. developed the most economical, reliable and easy to use system.

The innovative design, excellent quality and advanced process, are the main features that make POSEIDON EVO a unique Bilge Oil Water Separator.



description

Innovative Technology

The unit contains two stages, the coalescer and the emulsion breaking unit. The coalescer works on a continuous mode and only when the oil detection monitor detects at the effluent of the coalescer oil content higher than 14 ppm, the emulsion breaking unit begins its operation. The unit contains an effective hydrocarbon absorption material which ensures an excellent effluent quality with oil content much lower than the IMO requirements. The operation of the unit requires minimum inspection and ensures long life operation time.

The main advantages of the unit are:

- Fully automatic unattended operation
- Self-cleaning through backwash
- Minimum maintenance
- No chemicals required
- Effluent oil content under 5 ppm under all test conditions
- Easy installation and reliable operation
- Minimum volume and footprint

The benefits

- **Easy to install:** Delivered prewired and preassembled for all electrical and hydraulic parts.
- **Low maintenance cost:** All the components of POSEIDON EVO have been designed and tested to operate under all conditions ensuring low maintenance requirements and durability in the most demanding environment.
- **Low operating cost:** Fully automatic and no use of chemicals. Minimal inspection requirements.
- **Improved fluid quality.** Reliable results under all test conditions according to specifications of IMO resolution.
- **Requires minimal technical resources:** Needs limited staff skill for productive use due to unattended operation. Frees resources to work on other tasks, reducing labor burdens.

Worldwide

service & spares

Worldwide service and spares

The support concept of Environmental Protection Engineering S.A. is to maximize total product capabilities at the lowest possible cost enhancing customers' Return of Investment.

Experienced personnel offer a wide range of after-sales support services. This support can be tailored to meet customer requirements, including technical or regulatory and field operations, consulting, product upgrades, repair, etc.

EPE S.A. is the only Bilge Water Separator Manufacturer that can provide training on a full scale operation, in its unique facilities located in Piraeus, Greece.

Committed to Quality and Technical Excellence

Environmental Protection Engineering S.A.'s new POSEIDON EVO separator is a unique system in technical performance, simplicity in use and value for money.

It is type approved in accordance with Resolution MEPC 107 (49), by Lloyds Register. Also, EPE S.A. is certified according to ISO 9001 for maintaining a high level of quality. Committed to producing the highest quality products, EPE S.A. always invests in R&D. After many years of experience and continuous excellent results, EPE S.A. is the undisputable leader in the field of Bilge oily water separators.

Range of products

The new POSEIDON EVO is available in various sizes:

1,0 – 2,5 - 5,0 -7,5 – 10,0 m³/h.

It can be manufactured either in mild or stainless steel. The experienced design team of the R&D department of EPE S.A. can provide solutions for special applications where customized units are required.

