

SEA-Mate® Filter Solutions



RETHINK your Marine Lubrication cleaning

In the dynamic world of the maritime industry, efficiency, sustainability, and cost-effectiveness are crucial, to be ahead in the fast-growing business. The SEA-Mate® Filter System offers a sustainable solution for cleaner lubrication oil, with a focus on oil and energy reduction, ease of use, and cost-efficiency, compared to the traditional lube oil centrifuges. Save several tonnes of CO₂ and NO_x per year.

SEA-Mate filter systems offer

- Lower your oil consumption for two-stroke engines
- 99% lube oil sludge reduction from operating a filter
- 97% fuel savings compared to a conventional separator, contributing to the CII*, as no preheating of oil is required
- Return of investment less than 9 months
- Small footprint enables installation in every engine room
- Compatible with both newbuilding and retrofits



Key Features

Tailormade for your requirements: Sea-Mate filter solutions enables the vessel to tailor make the filter to fit specific requirements and monitoring equipment.

Ease of Operation: Filters are designed for uncomplicated operation, making maintenance an easy job.

Compatibility: The filter seamlessly integrates with the SEA-Mate® Blending-on-Board system, offering proven benefits such as recycling controlled replacement oil and contributing to lower the oil consumption.



SEA-MATE Duplex Filter Solution

Technical Advancements

Based on HYDAC Technology, the offline lubrication oil filters maintain two- and four-stroke engines across all fuel types, with achievement of high-quality lubrication oil.

Simplicity and Efficiency: The SEA-Mate® filter offers a simple, and easy-to-operate system operational & maintenance costs and running 24/7 without any oil loss.

The lubrication oil filters, tested with success by MAN Energy Solutions* and approved by DNV, to extend the service life of engines, reduce running and maintenance costs, and improve environmental performance by contributing to CII rating.

* Tested in 2022, supervised by MAN, onboard a 3600 TEU Container Vessel, ME type: 6S70ME-C8.5, HYDAC Filter type: LMPD-T-3.

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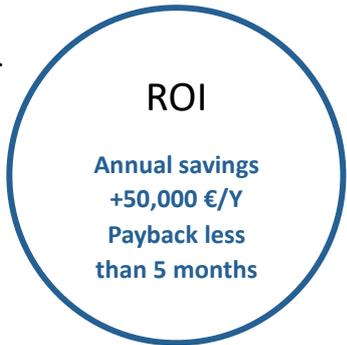
Financial Benefits (ROI)

Reduced System Oil Losses: Unlike centrifuges, there are no oil losses from filter operation.

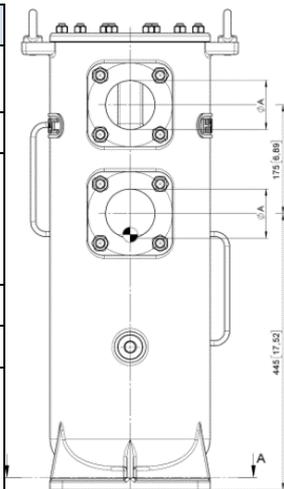
Lower Maintenance Costs: Reduced running hours give significantly lower maintenance costs of centrifuges.

Risk Mitigation: Reduced costly overhauls & operations, ensuring predictable & stable operational environment.

Energy Efficiency: The filter consumes less energy compared to traditional centrifuges.



Technical Data	Simplex	Duplex	Triplex
Max. Recommended flow (m ³ /h)	1.5	3	4.5
Number of Filter Elements	1	2	3
Application	Stern Tube / Gear oil / Hydraulic / 4-stroke engines on ULSFO / 2-stroke engines < 11kW	2-stroke engines Rec. Between 11- and 22 kW ME Rating	2-stroke engines >23 kW ME Rating
Dimensions LxWxH	475x345x775	360x970x1250	1070x570x1130
Pressure gauge	Yes	Yes	Yes
Differential Pressure Indicator	Electrical switch- & Visual indicator: 100% @ 3 bar + 2 pressure gauges	Electrical switch- & Visual indicator: 100% @ 3 bar + 2 pressure gauges	Electrical switch- & Visual indicator: 100% @ 3 bar + 2 pressure gauges
Max. Temperature [°C]	100	100	100
Filter insert	Down to 2μ	Down to 2μ	Down to 2μ
Max. Filter House Pressure (bar)	10	10	10



Savings from lubrication oil filters instead of separator technology:

Discover the true value of your investment and let us calculate the return of your investment before making your final decision.

We consider various parameters, including electricity savings, oil consumption and sludge reduction.

Please contact us directly on: mftservice@marinefluid.dk

