



GEA bilge Separator

Pushing the limits



Pushing the limits with the new GEA bilge Separator

Separator performance above IMO standard

15 ppm without a filter

GEA has set a further milestone in the field of bilgewater processing: The new generation of bilge separators with integrated direct drive is designed for producing residual oil contents of 15 ppm in all performance classes. Without an additional adsorption filter, without chemicals. This is achieved by means of modifications in the product feed of the bowl and the disk stack, resulting in a gentle product feed and a higher clarifying area.

5 ppm with filter

The requirements for the purity of bilgewater are constantly becoming more demanding – not least as a result of tighter national requirements throughout the world for sensitive areas of the ocean. In order to be in a position to meet potentially tighter requirements, many shipping companies are already demanding a guarantee of less than 5 ppm residual oil content in the processed bilgewater. GEA will also be able to meet these requirements.

Optimized process safety with GEA bilge Separator

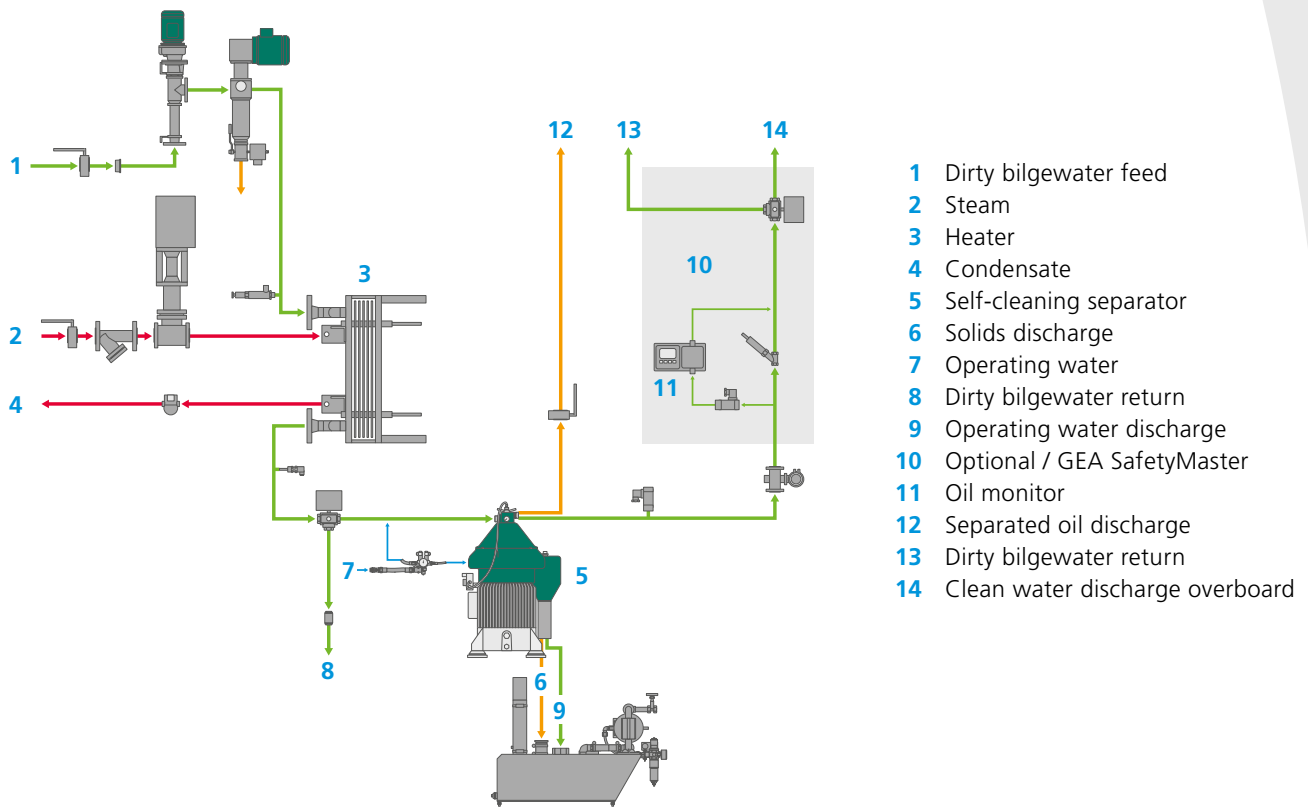
GEA bilge Separator 200	Capacity*: 200 l/h
GEA bilge Separator 500	Capacity**: 500 l/h
GEA bilge Separator 1200	Capacity**: 1,200 l/h
GEA bilge Separator 2500	Capacity**: 2,500 l/h
GEA bilge Separator 5000	Capacity**: 5,000 l/h

* at 60°C ** at 85°C

GEA bilge Separator:

- Highly efficient integrated direct drive
- Compact design with small footprint
- Less energy consumption
- Easy exchangeable drive system
- Residual oil content downstream of separator <15 ppm
- Residual oil content downstream of separator <5 ppm by adding adsorption filter
- Constant monitoring of the overboard valve (similar to GEA SafetyMaster)
- Optional in combination with SafetyMaster: system-integrated or “stand-alone”
- MTP ready





Integrated, Retrofitted or “Stand-Alone”

Customized configurations for all bilge water processing systems

GEA bilge Separators feature a modular design. The main components: Feed pump, automatic filter, preheater, the self-discharging separator, oil monitor and the control panel are installed on two modules (feed pump/preheater unit, separator unit). These modules are assembled to form a complete unit, and can also be supplied as individual modules upon request. This means that the system can be customized to meet the local circumstances in an optimum manner even in restricted spaces. An adaptive speed regulating facility of the feed pump adapts the system to the considerably fluctuating feed conditions of the product.

GEA SafetyMaster – the gain in terms of safety

In addition to the high safety standard of GEA bilge Separators, GEA has developed the SafetyMaster. It prevents the unintentional overboard pumping of bilgewater containing excessive levels of oil by means of permanently monitoring the complete separating process including the overboard valve. An integrated data recorder saves all bilgewater processing information from the previous eighteen months. All components of the SafetyMaster system are mounted in a lockable cabinet which is protected against manipulation and installed on the separator unit.



We live our values.

Excellence • Passion • Integrity • Responsibility • GEA-versity

“Engineering for a better world” is the driving and energizing principle connecting GEA’s workforce. As one of the largest systems suppliers, GEA makes an important contribution to a sustainable future with its solutions and services, particularly in the food, beverage and pharmaceutical sectors. Across the globe, GEA’s plants, processes and components contribute significantly to the reduction of CO₂ emissions, plastic use as well as food waste in production.

GEA is listed on the German MDAX and the STOXX® Europe 600 Index and also included in the DAX 50 ESG and MSCI Global Sustainability indexes.

GEA Global Marine Business

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