

## Lipatomat/Lipator - Grease Separator System

*ACO Marine Grease Separators are proven products for Fats, Oil and Greases (FOG) removal from Galley water. Galley water must first pass through a Grease Separator unit before entering any membrane wastewater treatment plant as FOG's can have an adverse effect on membrane performance and life expectancy.*

### Advantages:

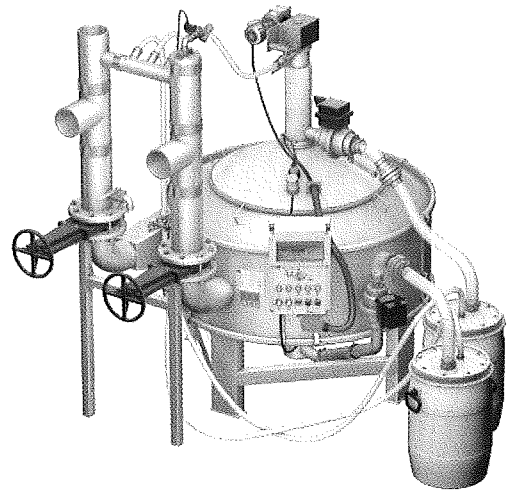
- Resistant to high temperatures
- Hygienic material Stainless steel 316
- Rigid construction to withstand vessel movement and vibration
- Resistant to organic solvents

### Operating principles:

By locating the inlet and outlets slightly above the separation chamber the resulting small hydrostatic pressure makes Lipator and Lipatomat Grease Separators the only units of their kind whose separation efficiency is completely unaffected by vessels movement and vibration. The grease accumulates in the upper cone whilst the sediment drops to the lower cone.

The heating element located in the upper cone ensures the grease remains liquid. Clean water passes freely and continuously through the grease separator. Accumulated sediment and grease is drained to independent collecting barrels fitted with level sensors which provide indication to the operator when they need to be emptied or replaced with exchange units.

Grease and Sediment lift pumps as well as treated water lift station, can also be integrated into the system depending on installation requirements aboard the vessel.



### Advantages:

- small hydrostatic pressure with no free surface ensures that the separation process is unaffected by vessel movement and vibration.
- the ACO patented internal design ensures flow velocity profiles through the separation chamber produce effective separation of grease and sediments even during periods of high demand.
- grease and sediment removal is fully automated on the Lipatomat range (manual on the Lipator).
- no operator contact with grease and sediments.
- grease and sediment removal occurs without interrupting separator operation. No process down-time.
- the separation technology ensures the greases and sediments are highly concentrated, only grease and sediments are disposed of with no surplus water; so often the case in conventional static systems.
- effective heating and short residence time within the separation chamber ensures that no grease is deposited on the chamber walls. Internal maintenance and cleaning is therefore reduced to an annual inspection only.

