



# SFU Emulsion Splitting and Filtration Unit

RWO  VEOLIA

Pre-treatment of bilge  
water to relieve your  
oily water separation



**WATER TECHNOLOGIES**

Oily Water Separators are able to treat almost every sort of bilge water and ensure a safe and environmentally friendly approach to handling waste water. Changing compositions and concentrations, the potential to emulsify as well as the increasing presence of particles and wastewater in the bilge water often complicates the entire process.

For this reason RWO has developed the Splitting and Filtration Unit (SFU). This special pre-treatment system eases the treating of bilge water and offers key benefits to chiefs and owners. The system is part of RWO's leading **Total Water Management** offer.

## SFU – Splitting and Filtration Unit

Emulsions and particles complicate the treatment of bilge water and cause an high amount of consumables for oily water separators. To relieve the emulsion splitting parts of OWS-units from particles and wastewater and save consumables, a pre-treatment can be installed.

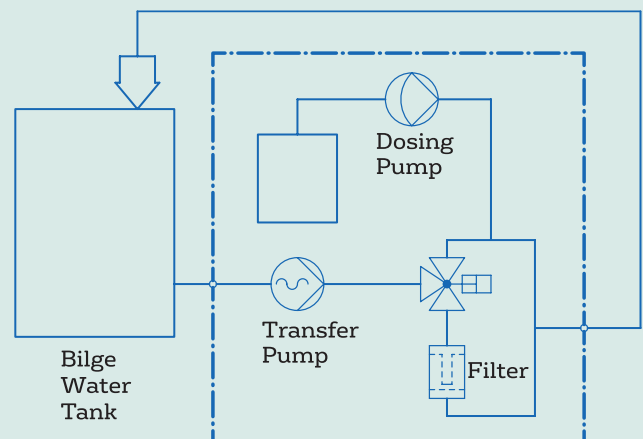
RWO's SFU type is able to pre-treat difficult bilge waters and meet individual requirements. Therefore, a fully automatic three-stage process is used, consisting of the addition of a special splitting agent, slow oil separation from the water and a filtration unit to remove all particles. Operators can also switch off the oily water separator and use the SFU system as a standalone filtration unit.

## Advantages

- > The SFU splitting and filtration unit has been developed to support oily water separators whenever unusual but difficult compositions of bilge water exist.
- > The pre-treatment of the bilge water works with emulsion splitting combined with downstream filtration, so even **stable emulsions can be handled**.
- > The advanced removal of particles and splitting the emulsion in the bilge water storage tank **saves consumables** in the downstream oily water separator.

## Your key benefits

- > Saves consumables for downstream oily water separator
- > Extends operational life span of OWS
- > Easy to install and easy to handle
- > Worldwide service & support

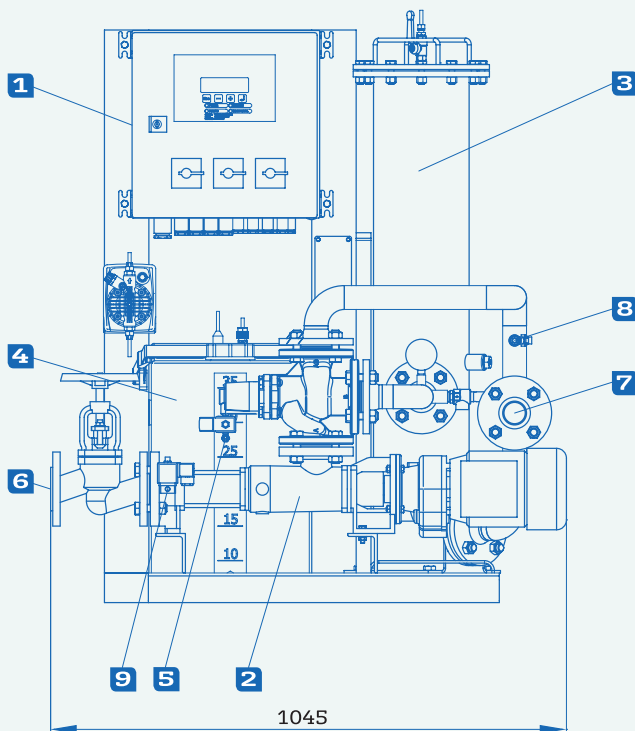




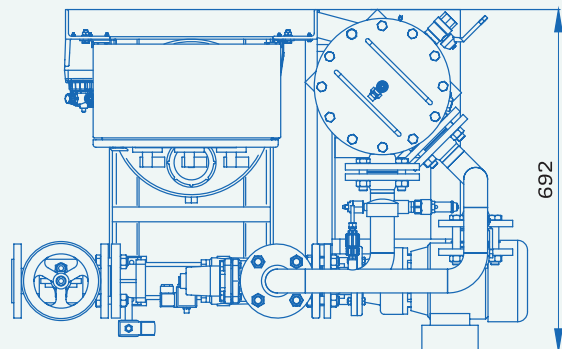
## How it works

The process of emulsion splitting and particle removal takes place automatically in three consecutive steps :

- 1** addition and mix-in of a defined quantity of splitting agent to the bilge water
- 2** settling phase with coalescence processes
- 3** reduction of particle concentration by means of filtration



- 1** Control box
- 2** Pump
- 3** Filter
- 4** Dosing tank
- 5** Control air inlet
- 6** From bilge water tank
- 7** To bilge water tank
- 8** Sample tap
- 9** Fresh water inlet



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