

# SFU Emulsion Splitting and Filtration Unit

**RWO**

## Pre-treatment of Bilge Water to Relieve Your Oily Water Separation

Oily water separators are able to treat bilge water and ensure that it can be discharged overboard in an environmentally friendly way. Changing compositions and concentrations, the potential to emulsify as well as the increasing presence of particles and other contaminants in the bilge water often complicates the entire process.

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



SFU helps treating bilge water by splitting emulsions

# SFU – Splitting and Filtration Unit

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

RWO's SFU type is able to pre-treat difficult bilge waters and therefore to reduce the costs of operation significantly. 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 stand-alone filtration unit.

## Advantages

- > The SFU splitting and filtration unit has been developed to support oily water separators if difficult compositions of bilge water exists.
- > The pre-treatment of the bilge water works with emulsion splitting combined with down stream 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.

## 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

## Key Features & Benefits

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

