

A photograph of an offshore oil rig and several ships at sea under a cloudy sky. The rig is on the right, and the ships are on the left. The water is dark blue with some whitecaps.

# Total Water Management

RWO  VEOLIA

Water and wastewater treatment systems for ships, ports and offshore installations

**WATER TECHNOLOGIES**

## Long Experience

RWO - Marine Water Technology is one of the leading suppliers for water and wastewater treatment systems on board ships and offshore installations.

For **almost 40 years** RWO's experts develop, design, manufacture and service forward-looking and cost-efficient technologies for any kind of water treatment, whether on board ships or offshore installations, for new builds as well as retrofitting.



## Best backing

The company is part of Veolia Water Technologies, subsidiary of Veolia Water, a leading design and build company and a specialised provider of technological solutions in water treatment.

With **over 10,381 employees** Veolia Water Technologies posted revenue of € 2.1 billion in 2013.

## Still close-by

RWO's network of **more than 50 qualified sales/service stations** throughout the world ensure customer benefits from short communication links to rapid response times. Thus, our wide ranging know-how and products as well listening and catering to customers needs have established us as the reliable partner in the maritime economy.

# RWO's Product Portfolio

## Quality and performance to make the grade

### Oil-water separation

- > Complying with 5 ppm standard
- > Suction or pressure type
- > Easy to handle by crew
- > Type approved according to IMO Resolution MEPC 107(49) by USCG, SBG, MED, RMRS, CCS



### Ballast water treatment

- > Designed real-life conditions
- > Low power consumption
- > Reduction of sediment load
- > No increase in corrosion or material damage
- > Modular design, focused applications 150 - 2,500 m<sup>3</sup>/hr



### Biological sewage treatment

- > Excellent effluent results and process stability
- > Suitable to treat black and grey water, or black water only
- > Delivered as plug and play unit
- > Applicable for gravity and vacuum sewage drainage



### Reverse osmosis desalination

- > Complete packaged systems
- > Perfect water quality
- > Fully automatic
- > Low maintenance and operation costs



### Process unit for OWS upgrade

- > Emulsion splitting system with 15 ppm alarm device
- > Exceptionally high purity levels
- > Safe during Port State Control
- > Class notations 'Clean Design' and Alaska Rules conformity



### Bilge water splitting and filtration

- > For difficult bilge water compositions
- > Avoids operational problems in downstream oily water separator
- > Saves consumables
- > Emulsion splitting and particle removal in three consecutive steps





# Water Technologies “Made in Germany”

## Softeners & Demineralisation

- > Reliable and operation-safe equipment
- > Chemical saving processes
- > Skid-mounted units
- > Electronic controls for automatic ‘hands-off’ operation



## Mineralisation and de-acidification

- > Drinking water becomes potable and more healthy
- > Considerable improvement of taste and odour
- > Ship equipment is protected against corrosion and subsequent damages



## Grease traps

- > Guarantee for high process stability and excellent effluent results
- > Two chambers for separation and storage of sludge and grease
- > Most compact design
- > Delivered as plug and play unit, ready for operation



## Water/seawater filtration

- > Enables and secures a good net water production with deep filtration
- > Designed for high sediment loads
- > Continuous filtrate flow without flow interruption
- > Very low flushwater demand



## Legionella prevention

- > Prevention of Legionella-related health issues
- > Compact and reliable design
- > Easy to operate and maintain



## Chemical dosing systems

- > Alkalinity reduction and scale prevention
- > Coagulation of suspended solids
- > Avoidance of scale deposits on reverse osmosis membranes
- > Shock treatment to avoid bacterial growth in pipes and storage tanks
- > pH adjustment to neutralise dissolved free carbon dioxide



## UV disinfection

- > Additional safety disinfection of drinking water, e.g. after the hydrophor
- > No chemicals required
- > No effect on taste or odour
- > No corrosion problems





## Services

- > Worldwide network and support
- > Commissioning
- > Retrofits
- > Spare parts, consumables
- > Training courses



## Your Key Benefits

- > High quality in every aspect
- > Get your water management solution from the market leader in OWS
- > It's all about your business tailor made services secure your success



## Water and Wastewater Treatment

- > Automatic backwash filters
- > Ballast water treatment
- > Biological sewage treatment
- > Chlorination and ozonisation
- > De-chlorination
- > Dosing units
- > Grease traps
- > Grey water treatment
- > Hydrophor units
- > Membrane Bio Reactor sewage treatment
- > Mineralisation and neutralisation
- > Multimedia filters
- > Oil content meters
- > Oily water separators
- > Protection filters
- > Re-hardening
- > Reverse osmosis desalination
- > Sand filters
- > Softeners
- > UV sterilisation
- > Vacuum generating units



Water technologies  
 "Made in Germany"





# WORLDWIDE

>> Worldwide **Sales** and **Service** Network

# WIDE

## SALES

[sales.rwo@veoliawater.com](mailto:sales.rwo@veoliawater.com)

## SPARE PARTS

[spares.rwo@veoliawater.com](mailto:spares.rwo@veoliawater.com)

## SERVICE

[service.rwo@veolia.com](mailto:service.rwo@veolia.com)

## MARKETING

[marketing.rwo@veoliawater.com](mailto:marketing.rwo@veoliawater.com)

## VISIT US

>> [www.rwo.de](http://www.rwo.de)

## RWO GmbH

### MARINE WATER TECHNOLOGY

Thalendorststrasse 15 A

28307 Bremen · Germany

Phone: +49 421 53 705-0

Fax: +49 421 53 705-440

[rwo@veoliawater.com](mailto:rwo@veoliawater.com)

[www.rwo.de](http://www.rwo.de)

A company of  
Veolia Water Technologies

[www.veoliawaterst.com](http://www.veoliawaterst.com)