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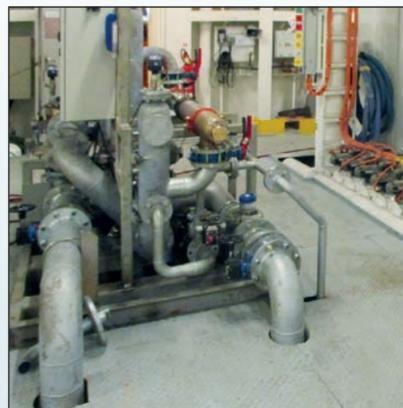
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# Ocean<sup>®</sup> Clean Water Treatment

## Ocean Clean GmbH

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# MARITIME ENVIRONMENT PROTECTION SYSTEMS

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BILGE WATER	GREY/BLACK WATER	RECYCLING	FOOD WASTE	BALLAST WATER
				
<b>Oily Water Separator</b>	<b>Sewage Treatment Plants</b>	<b>Crusher &amp; Shredder</b>	<b>Compactor</b>	<b>Ballast Water Treatment Systems</b>
Marpol 73/78 Annex I	Marpol 73/78 Annex IV	Marpol 73/78 Annex V	Marpol 73/78 Annex V	MEPC.173(58)
5-15ppm Type approved by: German BG Verkehr RMRS	MBBR Systems MBBR Systems Black Water Vacuum Systems	Glass Paper/Cardboard Plastics Cans	Plastics Paper/Cardboards Tins/Cans	Vacuum Disposer for Food Waste and Bones
		Flow rate up to 54m <sup>3</sup> /h Optional: With automatic grease discharge		30 -2.000 m <sup>3</sup> /h

The Ocean Clean GmbH was founded in 2005 in Kirchdorf, near Bremen, Germany, and focused on designing and producing maritime sewage treatment plants and oily water separators. Further activities included container, tank and steel construction and manufacturing, mainly in stainless steel.

In 2010 the company moved to Rostock and increased production capacity and quality by introducing new production facilities.

Continuous research and development led to improved products that are always in compliance with latest IMO resolutions.

Today Ocean Clean offers a broad product range of maritime environment protection systems including oily water separators, sewage treatment plants, recycling components, food waste systems and waste processing units. Almost every product is designed and produced in-house, assuring highest product quality and absolute conformity to customer requirements. A certain capability is the possibility to produce every equipment in both industry standard and high-end finish with superb surface and service quality.

As a subsidiary of Kloska Group and Neuenhauser Group Ocean Clean benefits from a large network of ship suppliers and production companies. Our customers rely on a worldwide net of agents and service partners.

The increasing amount of waste and garbage produced on every ship has become a serious problem over the past years. Shipowners and shipping companies are facing stricter regulations, more controls and increasing public interest as marine debris is accumulating in the world's oceans.

Ocean Clean environment protection systems offers waste managements concepts focused on both environmentally friendly volume reduction for later onshore recycling and for hygienic and health & safety conform handling. Our solutions to solve dry and wet waste problems on board of any maritime structure like mega-yachts, offshore platforms, passenger and merchant vessels comply to national and international law.

We develop custom-made solutions and offer engineering, manufacturing, installation and commissioning from a single source including worldwide service and spare parts supply for every piece of the equipment, e.g., pumps and mechanical seals.



## Marpol 73/78 Annex I

Regulation for the prevention of pollution by Oil

### BILGE WATER

- Oily Water Separator



The Ocean Clean OWS system is type approved according to IMO Resolution MEPC.107(49).

The robust three-stage-system has proven its reliability on hundreds of vessels since 2005.

Main components, e.g., pump, OMD, valves, tank are made in Germany.

The system will reduce oil content in the effluent water to less than 5ppm (standard setting acc. to IMO: 15ppm).

**Ocean<sup>®</sup>  
Clean<sup>®</sup>  
Water Treatment**

**MARITIME  
ENVIRONMENT  
PROTECTION  
SYSTEMS**

## Marpol 73/78 Annex IV

Regulation for the prevention of pollution by sewage from ships

### GREY/BLACK WATER

- Biological Sewage Treatment Plants
- Vacuum Tanks
- Fat Traps
- Transfer Stations
- Lifting Stations
- Vacuum Pump Stations
- Holding Tanks



Ocean Clean STP are type approved to the latest IMO Resolution by German BG Verkehr.

The compact units for grey and black water or black water only deliver high effluent quality. They are available for gravity and vacuum systems.

Ocean Clean Lifting Stations solve any problem regarding sewage collection and transfer.

Every Ocean Clean sewage system is made of stainless steel and made in Germany.



## Marpol 73/78 Annex V

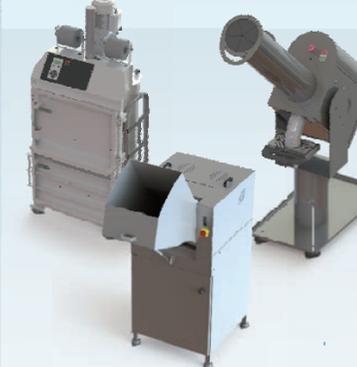
Regulation for the prevention of pollution by garbage from ships

### RECYCLING

- Tin Compactor
- Bale Compactor
- Bag Compactor
- Glass Crusher
- PET Shredder (Plastic Bottles)

Whether it is plastic, cardboard, cans or bottles: Ocean Clean recycling components will help to reduce the waste volume and make storage and disposal easy and comfortable.

We offer compact units in high-end stainless steel finish as well as industry equipment for high volumes, made in Germany.



- Grease Separators
- Food Waste Presses
- Macerating Systems
- Food Shredder
- Vacuum Pump Units
- Booster Pumps

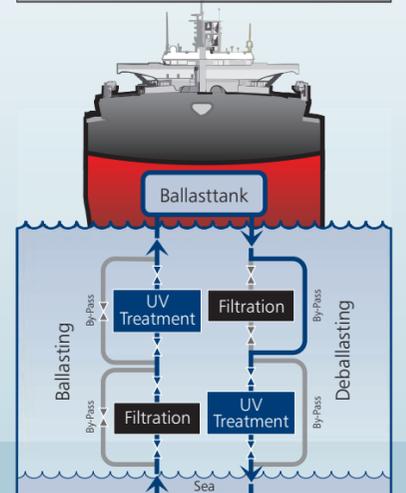


Vegetable, meat, bones and general food waste: Our product range covers equipment for all kinds of galley and restaurant waste.

## MEPC.173(58)

IMO ballast water management regulation for protection of the environment against invasive species

### BALLAST WATER



- Ballast Water Treatment Systems

**BIOSEA<sup>®</sup>**  
by **BIOUV<sup>®</sup>**  
Ultraviolet Solutions

In cooperation with BIO-UV we offer the BIO-SEA<sup>®</sup> Ballast Water Treatment System, a range of complete systems that combine mechanical filters and UV-C treatment.

The adaptable, compact, economical and automated system does not require any chemical products for ballast water treatment.

The BIO-SEA<sup>®</sup> system can treat flow rates from 30 to 2000m<sup>3</sup>/h and will automatically adjust its power consumption to the quality of the treated water.

The modular and flexible system is ideal for retrofitting.

