

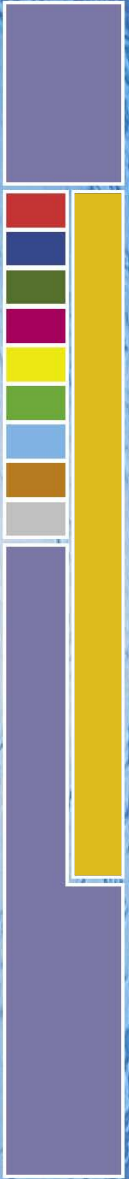


# An introduction to our Company



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# HATENBOER - WATER





# Presentation contents

- Hatenboer–Neptunus Holding
- Mission Statement
- Organization Scheme
- Hatenboer-Water your partner...
- Shipping and Offshore
- Examples of delivered projects
- The end





Hatenboer–Water is ready to become your partner in water... with its own engineering, workshop and service





# Hatenboer-Neptunus Holding b.v.

**Hatenboer-Neptunus b.v.**  
Water Supply

**Hatenboer-Water b.v.**  
General Water Treatment & Services





# Hatenboer-Neptunus

The (Drinking) Water Supply Company



6 barges supplying drinking and de-ionized water  
in the port of Rotterdam since 1906





# Hatenboer-Water

The (Drinking) Water Treatment Company



Location: Schiedam, The Netherlands



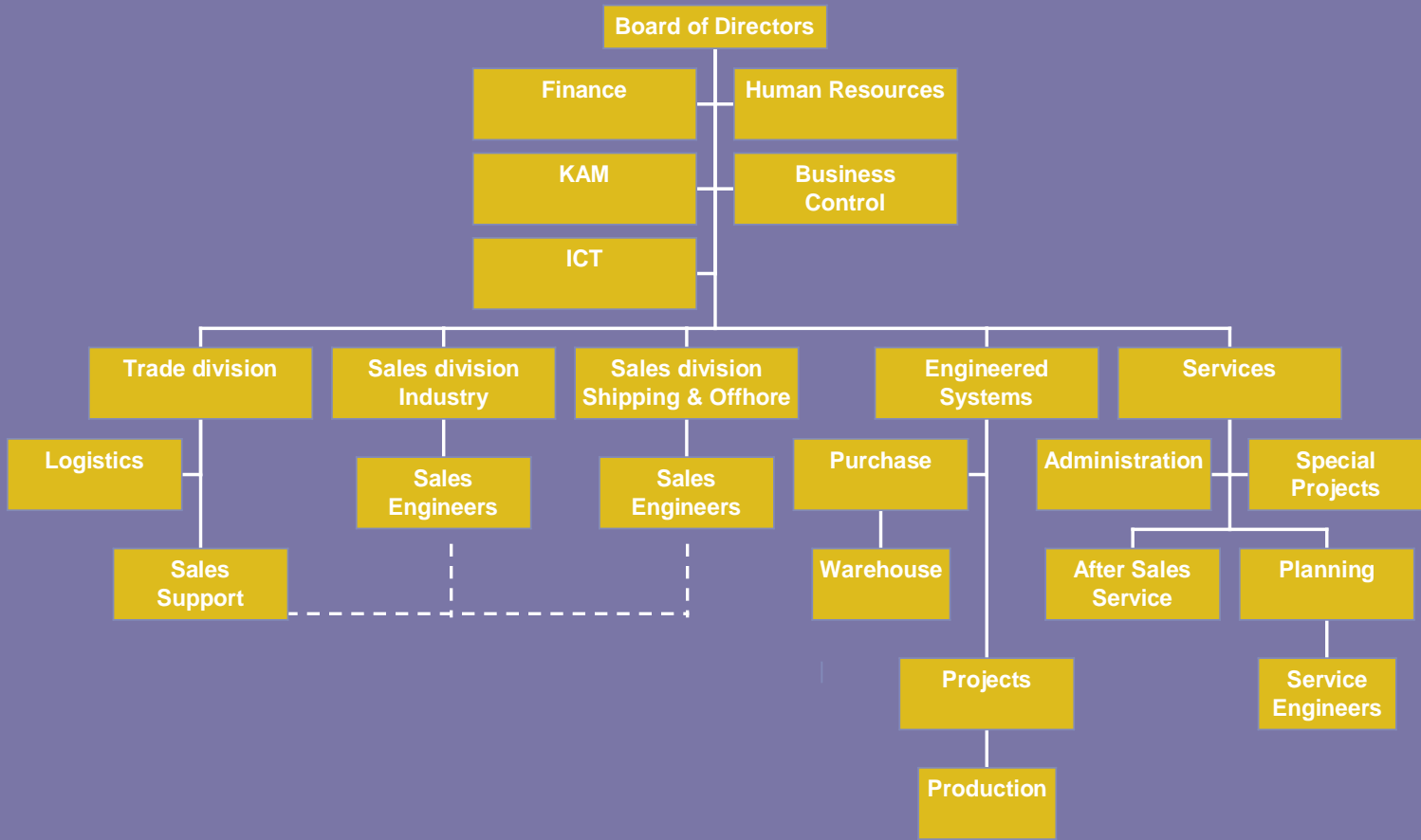


# Mission statement

- It is the aim of Hatenboer-Water to be your ideal partner in all water-related matters; to achieve this we have a sophisticated and up-to-date range of products, systems and services available;
- By listening first what you can tell us, and then with our dynamic organization apply the right mix of products, knowledge, experience and flexibility to provide you with the service or solution you are looking for;
- As an all-round organization, to provide an extra dimension through innovative solutions, quality and service.



# Organization Scheme







# Hatenboer–Water your partner for



Industry

Shipping and Offshore

Horticulture

Installation contracting

Governmental authorities

Swimming baths and Recreation

Aviation

Trade

...Your field!



# Shipping and Offshore

- Delivery program
- Water made – to – measure
- Maritime Fresh Water System
- Standard Maritime Products
- Complete Water Treatment Systems
- Maritime Services
- References





# Delivery program

We are an all-round supplier for drinking water products, such as:

- Standard products
- Complete modulised systems
- RO seawater desalination systems
- Spares & Consumables



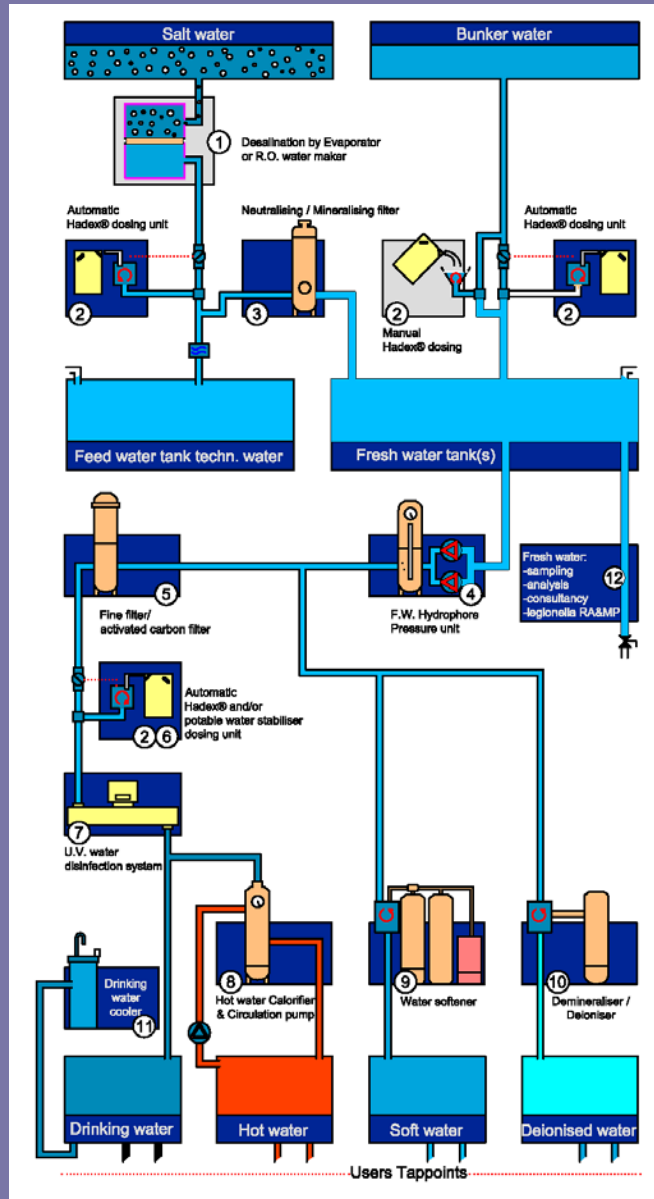


# Water made – to – measure

- Ocean going vessels
- Passenger ships
- Inland vessels
- Dredging
- Offshore
- Yachts
- Navy



# General Maritime Fresh Water System





# Standard Maritime Products:

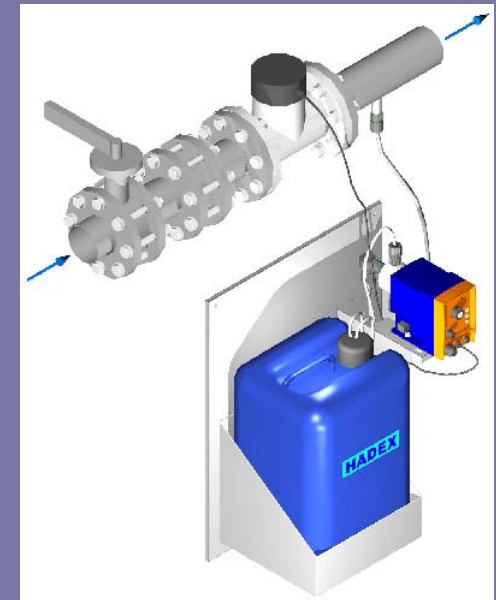
- Hadex<sup>®</sup> Disinfection Dosing Units
- Neutralizing/Mineralizing Filters
- Hydrophore Systems & Pumps
- Cartridge Filters
- UV Disinfection Systems
- Drinking Water Coolers
- Water Softeners
- Demineralizers
- Hot Water Calorifiers



# Hadex<sup>®</sup> Disinfection Dosing Units

For prevention of bacterial growth in the storage tanks and distribution system

- Works fully automatic
- Approved disinfectant (NMD, SI, MCA, USPH)
- Safe operation
- For treatment of:
  - Water maker product water
  - Bunkered water
- Capacities 0.5 - 300 m<sup>3</sup>/h





# Neutralizing/Mineralizing filters

To improve taste and avoid corrosion in the fresh water distribution system

- Capacities 1 - 500 m<sup>3</sup>/day
- Coated steel, stainless steel or GRP
- Including complete filling
- Including external process piping







# Hydrophore Systems & Pumps

- Normal or self priming hydrophore pumps in cast iron, bronze or stainless steel
- Standard hydrophore vessels in galvanized steel or stainless steel
- Diaphragm type hydrophore vessels
- Skid mounted complete with inter-connecting piping, required accessories, electrical wiring and power control box





# Cartridge Filters

For the improvement of (drinking) water quality

- Housing of stainless steel AISI 316
- Quick change type
- Standard fine or activated carbon filter cartridges
- Capacity range 1 - 52 m<sup>3</sup>/h each
- Taste & odour improvement
- Sediment removal



# UV water disinfection systems

- Maritime series, 2 - 60 m<sup>3</sup>/h
- Professional series, 10 - 60 m<sup>3</sup>/h
- InLine series, 15 - 2000 m<sup>3</sup>/h

Stainless steel AISI 316 UV chamber,

- can be equipped with options:
- Manual or automatic wiping mechanism
  - UV monitoring system
  - Automatic shut-off valve
  - Mounting brackets
  - Temperature control
  - Maximum flow control



# Drinking Water Coolers

For continuous chilled water

- Capacity 25 or 50 ltr/h
- Easy to connect
- No need for water bottles
- Cost saving
- Wetted parts in stainless steel
- For ships use (River)



# Water Softeners

To prevent scaling by removal of hardness in water.

Applications:

- Separator shooting water,
  - Feed water for galley equipment,
  - Bunkered water,
  - Boiler feed water
  - Hot water, etc.
- 
- Simplex or duplex models
  - For cold and hot water
  - Capacity range 0.5 - 100 m<sup>3</sup>/h
  - Non corrosive GRP housing
  - High quality resin
  - Fully automatic



# De-mineralizers

Demiflow mixed bed de-ionizer series.

For the fast and simple production of de-mineralized water

- Non corrosive GRP housing
- High quality resin
- Conductivity control
- Capacities 175 - 1400 ltr/hr



# Hot Water Calorifiers

Designed for use on board of ships

- Volumes from 30 - 3000 ltr
- In stainless steel or copper lined steel execution
- including Rockwool insulation
- Available with steam, hot water, thermal oil and electric heating





# Complete Water Treatment Systems

We have developed two types of complete water treatment systems:

1. RO Seawater Desalination systems
2. Cold & Hot Water Modules

The advantage of these complete systems:

- Easy to install & commission
- High quality components
- Comply to drinking water regulations
- Saving yard's engineering and installation costs
- Improving yard's efficiency







# RO Seawater Desalination Systems

We manufacture 2 brands of RO systems:

**BlueWave®**

High tech, small systems for mega yachts

**DEMITEC®**

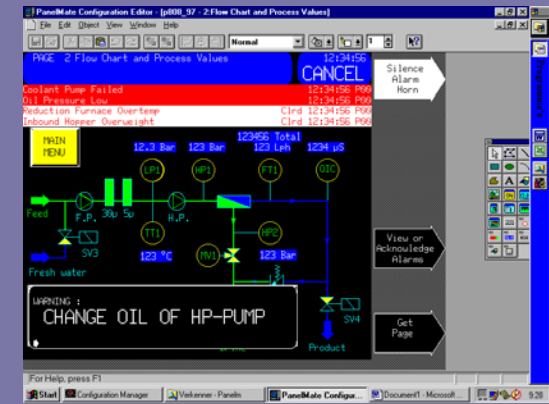
Heavy duty systems for merchant and offshore vessels





# BlueWave<sup>®</sup> RO Systems

- Completely automated
- Reliable
- Easy to operate & maintain
- Control Integrated with ships system
- Using modern techniques
- Capacities from 0 - 10 m<sup>3</sup>/day



# DEMITEC® RO Systems

- Reliable and with field proven performance
- Solid ocean going design
- Suitable for heavy duty operation
- Automatically operated
- Capacities from 10 – 600 m<sup>3</sup>/day
- Standard or custom build design



# Cold & Hot Water Modules

These modules are complete cold and/or hot water sanitary systems

- Base frame mounted
- Including interconnecting piping
- Electrical pre wired
- Factory tested
- High maritime standards
- Improving yard's efficiency





# Maritime Services

- Water sampling & Analysis
- Drinking Water Consultancy
- World Wide Services



# Water sampling & Analysis

Drinking water quality control  
by means of water sampling  
Important parameters are:

- Bacteriological
- Legionnella
- Physical/chemical

Samples are analyzed  
by approved laboratories

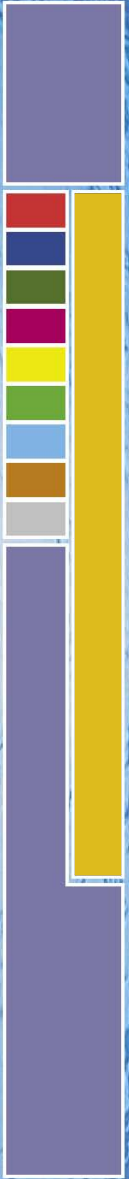




# Consultancy

Consultancy for ship designers and yard's with the specific piping & system layout for new buildings, for prevention of legionella and other micro-biological fouling.

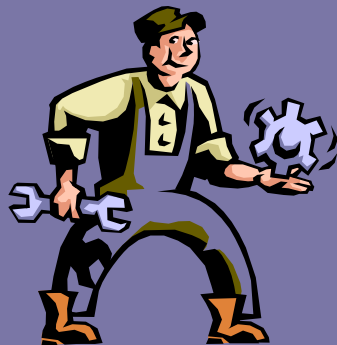
For exsisting ships we are can execute a Risk Assessment & Management Plan (RA&MP) dedicated for fresh cold & hot water systems



# World wide service

For servicing equipment, our engineers are travelling world wide,

- to supervise installation,
- to commission and
- to start up.







# References

Our equipment is delivered all over the world and is operational on all world seas:

Azerbaijan	Belgium	China
Germany	Italy	
Japan	Korea	
Netherlands	Norway	
Portugal	Qatar	
Spain	Singapore	
Turkey	United Kingdom	
UAE	USA	





# Conclusion

Hatenboer-Water:

- Takes the leading shipping & offshore companies to sea with safe and reliable drinking water.
- Your partner in Maritime (Fresh) Water Treatment & Services





# Examples of installed Hatenboer-Water projects in operation





## Sanitary Fresh Water Module for offshore drilling rigs





DEMITEC® Duplex seawater desalination system  
2 x 3 m<sup>3</sup>/day for patrol vessel





Fresh Water Hydrophore & Treatment Module  
for 72 m super yacht





DEMITEC<sup>®</sup> seawater desalination system 60 m<sup>3</sup>/day  
for Offshore derrick barge





## Fresh Water Hydrophore & Treatment Module for ROPAX ferry





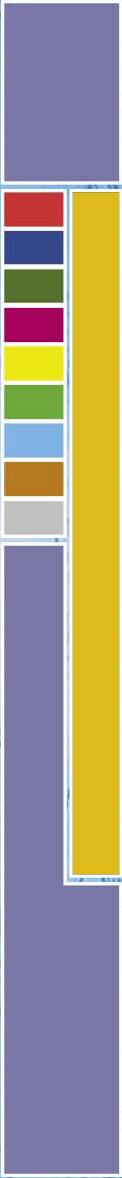


DEMITEC<sup>®</sup> seawater desalination system 20 m<sup>3</sup>/day  
for offshore support vessel





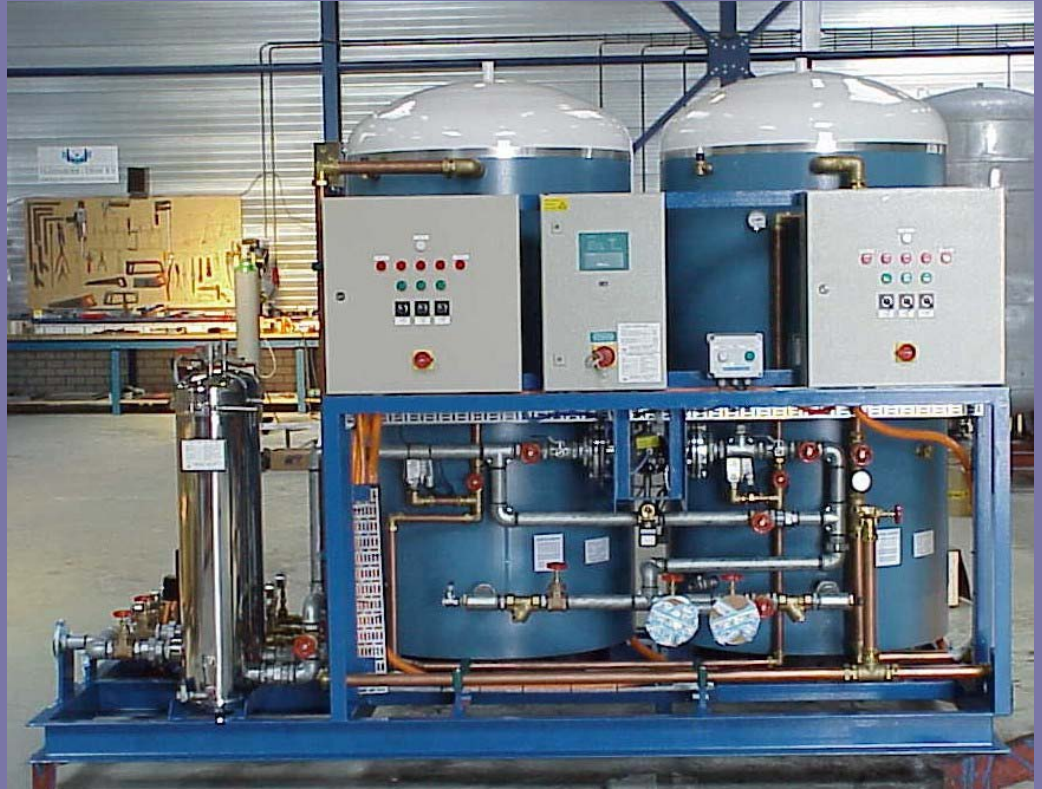
Hot Water Unit for Landing Platform Dock ship  
of the Royal Dutch Navy





DEMITEC<sup>®</sup> seawater desalination system  
35 m<sup>3</sup>/day offshore jack-up rig



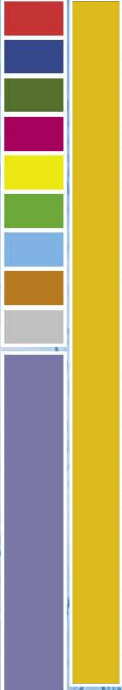


Hot water Unit for fall-pipe vessel





BlueWave<sup>®</sup> seawater 20G force shock proof desalination system 35 m<sup>3</sup>/day for Navy vessel





## Fresh Water Hydrophore & Treatment Module for offshore supply vessel





DEMITEC<sup>®</sup> seawater desalination system  
40 m<sup>3</sup>/day for offshore vessel

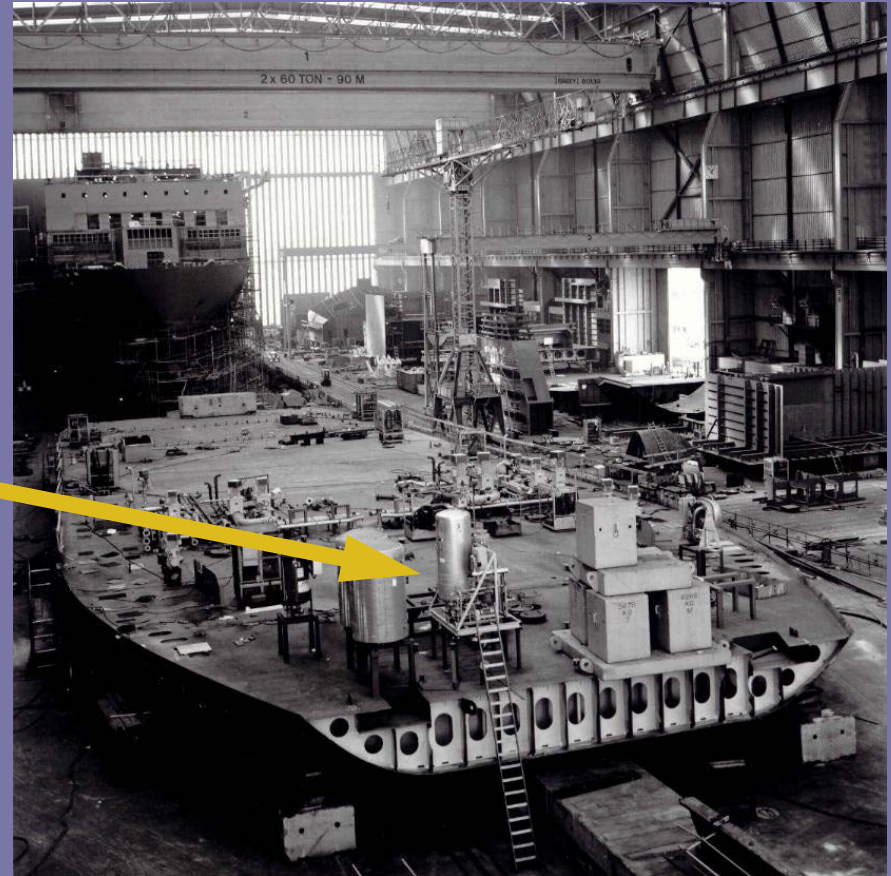




BlueWave<sup>®</sup> digital seawater desalination system  
for 3 mast top sail schooner







Fresh water hydrophore & treatment unit  
on ship under construction



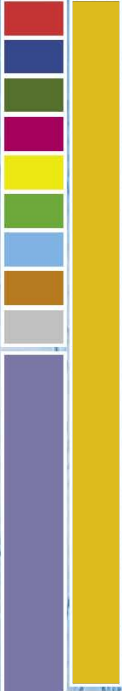


DEMITEC<sup>®</sup> seawater desalination system 60 m<sup>3</sup>/day  
for offshore drilling rig





BlueWave<sup>®</sup> seawater desalination system  
for 82 ft sailing yacht





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