

HATENBOERWATER



Your water partner:
Hatenboer-Water
Discover our scope of supply
and rely on our vast experience

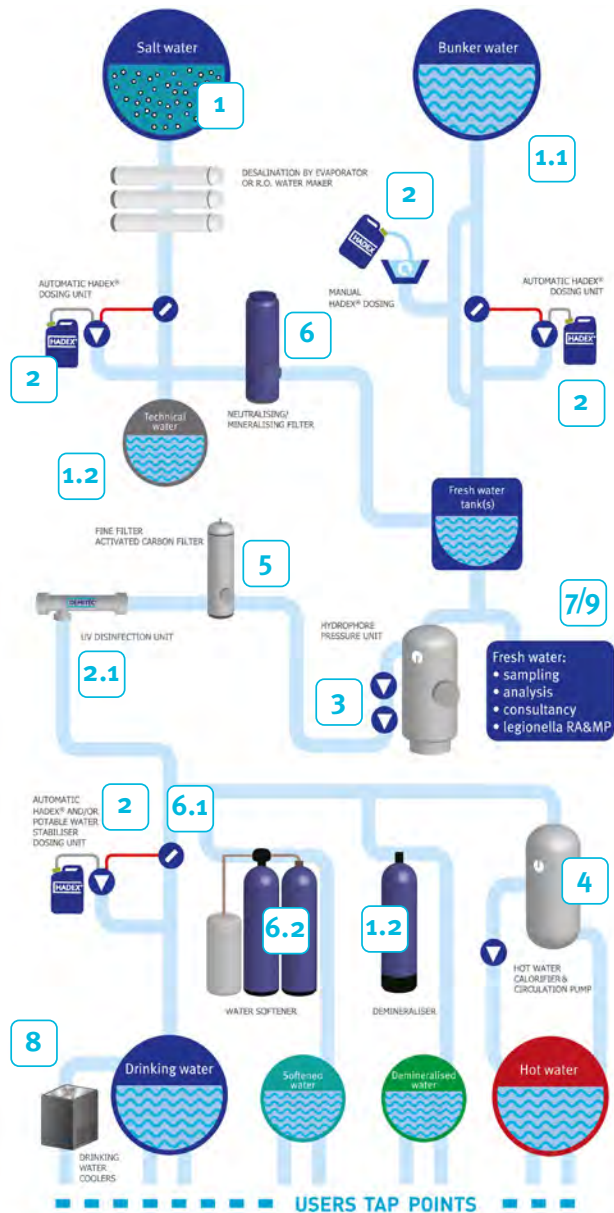
- Desalination
- Disinfection
- Pressurisation
- Heating
- Filtration
- Conditioning
- On site testing
- Point of Use systems
- Worldwide services

Fresh in water since 1906.

Safe Water on Board

Covering your complete water supply and production process, from source to tappoint: including worldwide services. Get to know us!

Safe water supply:
manage the complete
water provision cycle
for optimal efficiency



1. Fresh (drinking or technical) water at sea can be produced by means of desalination for which an **evaporator or Reverse Osmosis plant** is required. Also fresh drinking water can be bunkered from shore or from **HDU barges**
(1.1). De-ionised pure water is required for batteries, chemicals, analysis and special cleaning (1.2).
2. **Hadex® drinking water disinfectant** can be dosed in water maker product water, bunkering water and/or fresh water to the chlorine based distribution system. As an effective and essential method to reduce the number of micro-organisms and to avoid bacterial growth in the fresh water storage tanks and piping systems.

2.1 Ultra Violet (UV) disinfection eliminates bacteria in fresh water. An UV system needs to be installed as last treatment step to the users tap points.
3. **Hydrophore units and pumps,** pressurise the system to the tap points in the required quantity.
4. **Hot water calorifiers** provide the hot water needed on board for galley, showers, laundry, etc. The heating can be by electricity, steam, hot water or thermal oil, whatever is available on board.
5. **Fine filters remove solid impurities** such as rust, sand and all kind of other debris. Especially at locations where the water contains turbid matter we advise fine filtration of the water as a basic treatment step in water purification. Activated carbon filters improve the taste and appearance of the water, removing organic micropollutants such as traces of hydrocarbons (oil, solvents) and are also used for dechlorination.
6. **Neutralising (Mineralising) filters** are used for the conditioning of the product water from the evaporator or reverse osmosis desalinator. The water from a water maker hardly contains any natural hardness, is without taste and has a low pH. To prevent pipe corrosion and harmful effects of this pure product water, neutralising is applied.

6.1 Potable water stabiliser is used where problems with corrosion occur in the distribution system (rusty water). The HW-Stabiliser stabilises the corrosion layer and forms a hard layer, stopping any further corrosion.

6.2 Water softeners are required to protect water-fed equipment, such as oil separators, boilers, cooling and piping systems against formation of mineral scale.
7. **For quality control and proper maintenance** of the fresh drinking and technical water systems on board we deliver test kits for most parameters, such as pH, conductivity, hardness, chlorine, etc. Newly added: legionella test kits for on site use!
8. **Bottle filling stations and water coolers** provide fresh consumption water on the spot.
9. Not only with technical services we help you, but also our water advisory services can help to prevent or assess all risks on board.

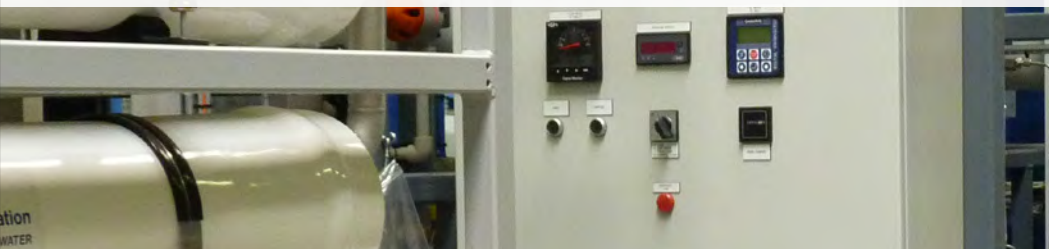
1. Water Desalination

Your tailor made water

Produce your own safe drinking water or technical water through desalination of seawater; suitable for any kind of environment and application. From compact and energy saving solutions to complex offshore structures.

Our water makers contain all components required for self-sufficient operation.

Available in an off-the-shelf, standard set-up or assembled according to your specifications.



Custom built water makers

- Topside installations, in compliance with high end specs
- Demineralised water for technical purposes
- Solutions for any environmental conditions
- ATEX designs, operation in hazardous area
- Integrated energy recovery
- Desalination of seawater, brackish water or river water



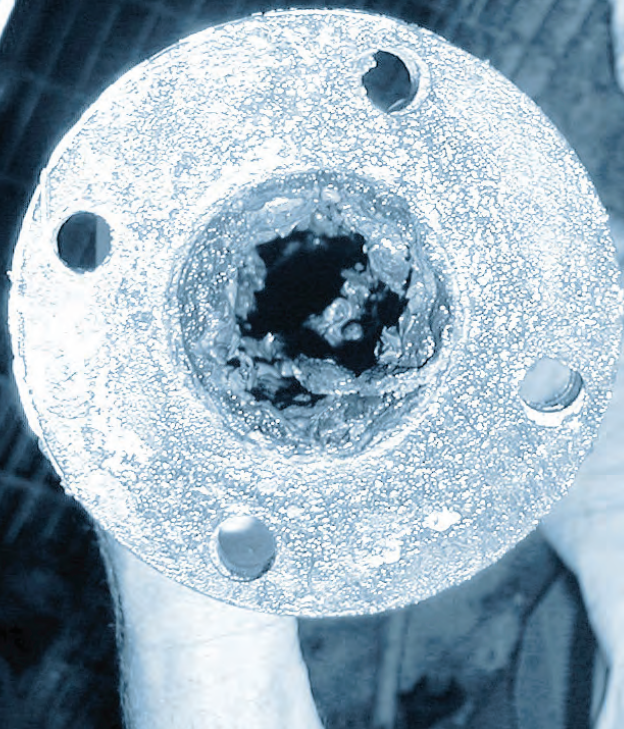
Standard series: 3-100m³ per day

- Plug & play
- Safe drinking water on board
- Remote monitoring possibilities
- User friendly interfaces

Reduce plastic waste!

2. Disinfection

Keep safety at the highest level



Water is prone to fouling and bacterial growth. Prevent this and keep your water supply of safe and constant quality: upgrade your water storage and distribution system with drinking water disinfection technologies such as

- Ultra Violet water disinfection by validated, CFD-optimised Demitec systems,
- Copper/Silver ionisation or
- Chlorination by Hadex drinking water disinfectant.

For larger or more complex installations, combine drinking water filter systems and technologies, complying with health regulations (NIPH/NMA, MLC).

Consult us to determine which disinfection technology suits you best.

3. Pressurisation

The right flow and pressure for your water distribution



Different pump types and their parts are available from stock, such as self-priming, normal priming, reciprocating or in bronze, stainless steel, etc. as well as hydrophore vessels and sets tailored to your specifications. Discover the possibilities.

Best options for your water needs

- Choice of materials and configurations
- All pump brands in stock, incl. parts
- Robust and reliable products, selected for their durability

Official maritime partner of

GRUNDFOS 



Robust and energy efficient marine pumps



Hydrophore vessels



Pressure sets in variety of configurations

4. Heating

Hot water supply

Our hot water calorifiers have inner tanks with stainless steel (30-1000 litres) or copper (1000-3000 litres) lining. The outside cover is made of epoxy coated steel plates. The hot water modules are skid built in any configuration you could think of.

The sturdy configuration of all elements is offshore proof and guarantees a long lifespan. Horizontal models are available.

Options for heating sources:

Electricity, steam, hot water, thermal oil or indeed whatever is in use and available.

Calorifiers are delivered as time saving, ready for start-up units, with required accessories and insulation. Electrically heated models are supplied with heating and safety thermostats.



5. Filtration

From efficient water filter devices to superior cartridges

Adding filtration options to your water supply prevents damage or blockage of water mains: reduce downtime and maintenance. Dependent on the quality of your source water, filtration options are available for removal of sand, grit, silt, rust and other impurities. Our water filtration options are flexible!



Filter housings

cartridges/bags

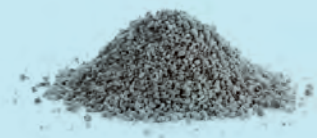
Small or large scale applications

- Carbon block filter cartridges for maximising effectiveness of carbon media
- Melt blown sediment filter cartridges with excellent dirt holding capacity
- Highly efficient water filtration membranes for salt and mineral removal
- Everpure filters for industrial food and beverage production or galleys



Filter cartridges

removal sediment and contaminations



Filter media

various filter applications



Membranes

removal of salts and minerals from source water

6. Conditioning

Protect equipment, improve taste

Conditioning is especially important for closed circuit systems, keeping drinking water fresh and tasty. Not to forget the damage of your equipment. Optimise your desalination process and reduce costs!

Contact us for

- Softening
- Demineralising
- Neutralising
- Rehardening
- In line measurement and control



Optimise your water supply:

- Chlorine removal from tap water
- Post- or pre-treatment for all kinds of source water
- Chlorine dosing for sewage treatment or for swimming pools
- Membrane related (bio degradable) chemicals: cleaning, anti-scaling
- ... and many more options

7. Water management

On site testing equipment

Keep your water at constant and safe quality levels. Our test kits are suitable for specific environments and situations. Contents can be adapted to match industry needs and manuals have been included. Good to know: water monitoring is required by health and safety related regulations such as MLC, Ship Sanitation and NIPH/NMA.

Discover our range of test kits

- ***Legionella pneumophila***
- Offshore sites
- Maritime use
- Cooling water
- Boiler water
- Sewage effluent
- Chlorination levels (Hadex)

Get a grip on your monitoring with our kits and our water management plans!

*Unique, on site Legionella test kit, results within 48 hours.
Contact us for more information!*



8. Water consumption points (POU)

Connection directly to the mains



Reduce costs & handling; our water coolers and bottle fillings stations use water bunkered on your tank, which is far less expensive than using disposable water bottles. Make the switch today to a better alternative!

- Handsfree operation
- Constantly chilled water
- Immediate cost reduction
- Minimise environmental impact



bottle filling stations/
water coolers

Reduce plastic waste



galley solutions



- Improve water taste and odour
- Remove any pollutions
- Protect your equipment

Official
dealer of
Everpure

9. Worldwide water quality services

Advisory services and technical services

Water quality services

Our water quality testing teams consist of sampling technicians and consultants.

They help you with

- Water sampling & analyses
- Water management plans (fleet management)
- Assessments of chemical, microbiological and physical water condition

Training options are offered for all professionals responsible for water quality. On board, on location, in one of our regular courses and online!

Technical support services

When facing technical challenges, rely on our decades of experience in water services.

You can think of

- (Pre) commissioning
- Re-commissioning
- Surveys
- Midlife updates
- Conservation services
- Globally operating
- Offshore trained

Safe Water on Board

Our water professionals can also train and assist your crew on-site so you can optimise your operational and maintenance conditions.



Where to find us

Worldwide presence



● Hatenboer-Water ● Agent ● Stock point ● Agent/Stockpoint

Constant and reliable water quality | Worldwide service & spares | Comply with regulations

HATENBOERWATER

Fresh in water since 1906.

With over 110 years of specialist expertise, in-house engineering, design and production in a modern operating environment, Hatেনboer-Water supplies solutions for all your water-related challenges and basic needs. Economically sound and environmentally sustainable with all necessary worldwide after sales service.

Hatenboer-Water, your full service partner in water treatment and services.



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