



**HATENBOERWATER**

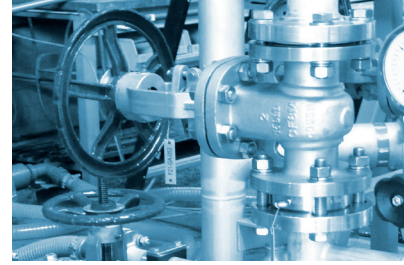
*Fresh in water since 1906.*



## **Mobile units for your water supply**

Reliable water supply

Rapidly deployable



# Hatenboer-Water

Fresh in water since 1906.



## Water treatment & services

With specialist expertise, in-house engineering, design and production in a modern operating environment, Hatেনboer-Water supplies sustainable solutions for all your water-related challenges and basic needs. From the supply of a standard product such as a pump or filter, right up to fully integrated custom-made water treatment systems that consist of proven technologies to innovative developments. With all necessary worldwide after sales service, consultancy and quality assurance. Hatেনboer-Water; your partner in water treatment & services.



## Proven technology

Hatenboer-Water has been a specialist in water treatment since 1906. Sometimes with custom-made solutions, but often too with top quality standard solutions. Exactly what is needed to achieve industrial process water of the correct quality, for example. The technologies applied are always reliable in order to support your operational dependability in a sustainable manner. With an eye to the issues that might confront you, whether they relate to economic, technical operation or rules and regulations. Within the range of products supplied by Hatেনboer-Water the focus is on membrane filtration and disinfection, in mobile configuration if necessary.

*Years of experience and innovative expertise characterise our versatility relating to the theme of water and technology.*







*Mobile Water Supply Unit offers you the unique solution to produce high quality water right where it is needed against minimum required time, effort and costs.*

## Mobile desalination unit

Being specialists in water treatment and operating in many industries, Hatenboer-Water saw the need for reliable water systems that are quick to install and easy to operate. The Mobile Water Supply series comprises different designs depending on the application it is suitable for.

### Industrial units

Solution for your short-, mid- or long- term water supply in various capacities. Mobile designs that are perfectly suited for your standard water needs. When extra water capacity for seasonal peak in production demand is needed, or at times of extensive maintenance outages to minimise plant downtime.

### Emergency units

This design is fully self contained. Safe drinking water is produced from almost any water source (sea water, brackish water, well water and surface water). It is rapidly deployable in the event of first aid situations. All equipment is assembled in a rugged container to supply safe drinking water in no time.

### Drinking with the Wind units

A design that operates on the sustainable sources wind and sun. It is now possible to produce safe drinking water in areas that are difficult to reach and with scarce utility resources. The unit has a windmill and solar panels, but yet the design is still compact, easy to install and to transport.

## Reverse Osmosis

All designs use reverse osmosis (RO) desalination membranes: the best practical solution for the desalination of salt water with low investment and running costs. The last decades the RO technology has proven itself and today Hatenboer-Water supplied over a thousand of RO installations worldwide. The Hatenboer-Water RO systems stand for a safe, reliable and economical operation. Just a small step to have safe drinking or process water. The units are suitable for any location where water of good quality is scarce. If you have special wishes, it goes without saying that the standard containerised solutions can be adjusted accordingly.



# Industrial Mobile Water Supply Units

## For all purified water needs

### Plug and play

The desalination plant is fully assembled in a 40 feet sea container and is equipped with insulation, air-conditioning, water proof floor and standard sized door. The container can be delivered by air, road or sea. The containerised solution offers great flexibility and fast and easy installation of the desalination plant. Costs for expensive buildings and civil works are strongly reduced.

Easy transportation



### Heavy duty

The custom built desalination plant is designed completely according to our Manufacturing Standards with heavy duty design. The use of first class components ensures the production of high quality product water in continuous heavy duty conditions with minimal operating attention from local personnel. Proven components are used, such as:

- Multimedia- and cartridge filters for extended pre-filtration
- High retention membranes
- ASME certified and FDA approved pressure vessels
- Duplex high pressure pump with energy recovery

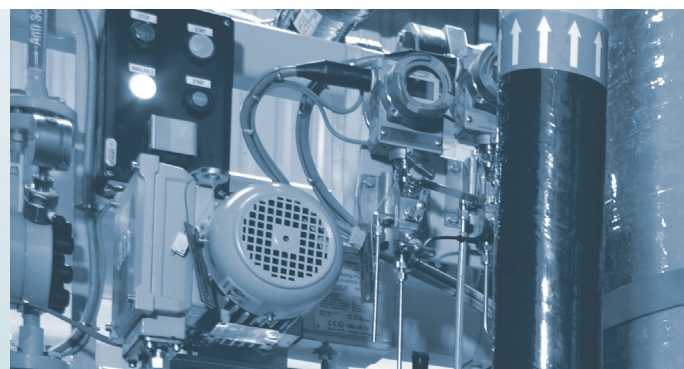
The rugged 40 feet container has PU floor insulation and is accommodated with a heater or air conditioner. A separate insulated room is available inside the container that can be used for storage of spares, a power supply generator (see options) or e.g. a small office.

Plug and play



### Ready to launch

After installation Hatenboer-Water can take care of commissioning of the unit and training of operators and service personnel. You only have to arrange the placement of the container on site and arrange the necessary connections for water and electricity. Altogether, Hatenboer-Water is ready to launch within a fraction of the time in comparison to non-containerised plants.







## Capacities

The complete Industrial Mobile Water Supply Unit is capable of desalinating water with a maximum salinity of 36.000 ppm total dissolved solids (TDS) and available in capacities of 160 m<sup>3</sup>, 240 m<sup>3</sup> and 320 m<sup>3</sup> per day product water.

The water maker provides high quality product water with a TDS < 500 mg/l. Higher water qualities for production of e.g. demi- and ultrapure water are available on request. Please contact Hatenboer-Water for a tailor made solution.

Fully self  
contained units



## Technical features

Model	Production <sup>1</sup>	Container	Power <sup>2</sup>
	m <sup>3</sup> / day	size	kW
DIM160	160	40 ft	35
DIM240	240	40 ft	46
DIM320	320	40 ft	54

<sup>1</sup> Production based on 35,000 ppm and 25°C feed water.

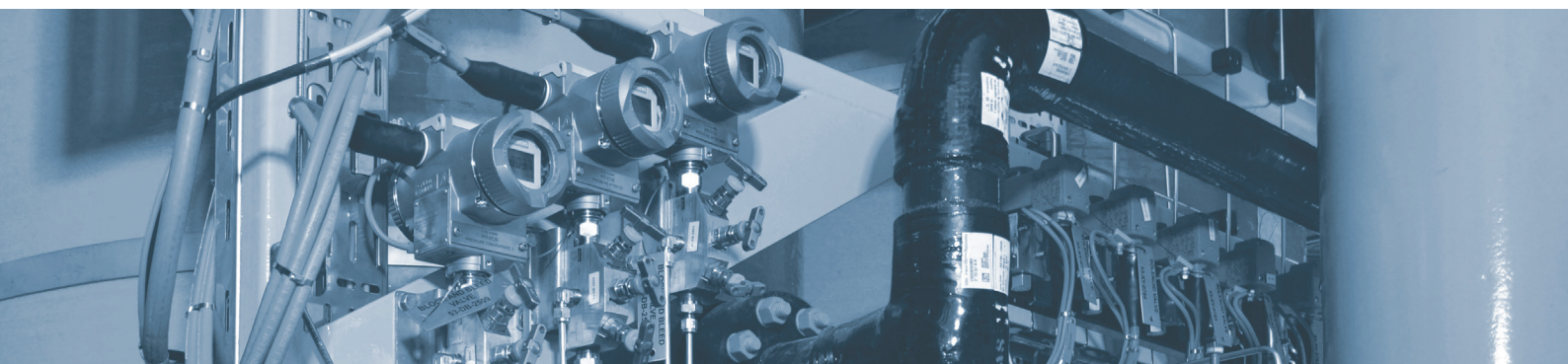
<sup>2</sup> Power can vary depending on actual application.

## Key Features

- Fully automatic water treatment plant with large feed water operating range
- Thorough and conventional engineering design for trouble free operation
- Use of high quality components and materials
- Minimum operator attention for maintenance and service
- All equipment assembled in a rugged container to supply water within days of arrival
- Prefiltration guarantees long membrane lifetime
- Low energy consumption
- Minimal chemical consumption

## Options

- Intake pump
- Power supply by generator placed in separated insulated room in container
- Container equipped for extreme climates (-40/+40°C)
- Cleaning In Place (CIP) unit for cleaning the membranes on site
- Product water neutralisation
- Product water disinfection to maintain product water quality
- Commissioning and training by Hatenboer- Water





# Emergency Water Supply Units

## Water, essential for all life

### Contaminated water

As we all know water is vital to life. We also know water is extremely perishable. Safe drinking water is essential to avoid the spreading of diseases such as diarrhoea, influenza or even epidemics. Facts that you are well aware of and are not to be underestimated. Especially in areas that are facing the effects of natural disasters.



### Applications

The installation is appropriate in many areas and for many calamities and prepared to desalinate various types of sea and brackish water into safe drinking water.

- Emergency supply
- Hospitals, laboratories and field hospitals
- Drinking water for remote locations and islands
- Military zones

### Reliable water supply

The Emergency Water Supply Unit creates clean and therefore healthy and safe water by filtration and desalination out of brackish or salt feed water. The unit uses several pre-filtration sets and reverse osmosis; proven technologies that can handle various water types. Although the product water is primarily intended for use as drinking water, it can also be used for other purposes such as applications in (field) hospitals.

### Rapidly deployable

The emergency water supply unit is rapidly deployable and it operates automatically. The compact unit is constructed in a solid sea container and installation is as easy as plug and play. Local staff can easily do the regular maintenance themselves. The unit is completely self-sufficient: all components are integrated for operation including a generator that provides the power required.

### Technical features

A single emergency water supply unit has a production capacity of 36 m<sup>3</sup> per day potable water. This is sufficient to provide 9000 persons with drinking water on a daily base according to the World Health Organization. The unit is built in a 20 feet reefer. The unit has all the components for easy installation and to provide safe water. Like a hydrophore pump and disinfection equipment. Contact us for the product data sheet that provides you with all the details.







*Heavy duty design / Large production*

## Drinking With The Wind Units

### Making drinking water from salt water using energy from the wind and the sun!

### Safe drinking water

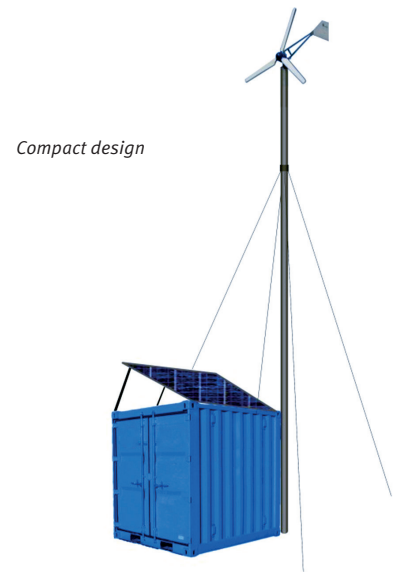
The concept employed by Hatenboer-Water is unique in its kind. The so-called "Drinking with the Wind" (DWTW) installation produces drinking water from sea water or brackish groundwater, with the energy required coming from sustainable sources such as the wind. It is now possible to produce (drinking) water in areas that are difficult to reach and have scarce utility resources.

### Mobile solution

The complete installation is mobile and therefore simple to transport. The unit (including windmill and solar panels) can be erected quickly for optimum flexibility. Its robust construction and the rugged container in which it is housed also add to system's sustainability.



*Hatenboer-Water has brought the technology of reverse osmosis to the perfection since its introduction. The unit has been developed in close collaboration with the renowned Delft University of Technology.*



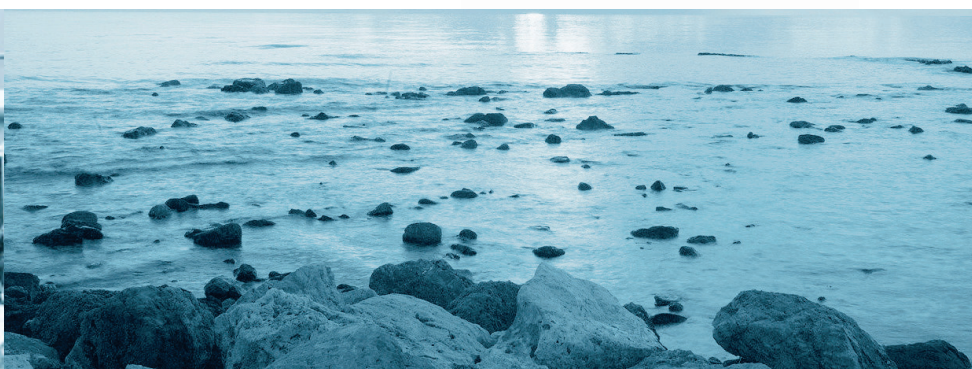
### Energy saving

The DWTW installation has a very low energy consumption. An energy recovery unit is included in the design, by which the high pressure from the brine is recovered and re-used for the RO high pressure pump. This results in an energy saving of 20-40%. As a result the windmill and solar panels are compact which makes the unit easy transportable.

### Features

**Capacity:** up to 7,000 litres per day

**Container:** coated steel ISO 20 feet (6,1 m) ICC approved sea container



*Containerised solutions: great flexibility and easy installation for your water treatment system.*

## Hatenboer-Water

Your partner in maritime water treatment & services.

### Your benefits

By choosing Hatenboer-Water as the supplier of all your water related equipment and services you benefit from:

- Good water from production to consumption
- Strong focus on service, quality, innovations and improvement
- Minimal downtime
- Dedicated after sales and logistics support
- Worldwide services
- Local, skilled, support
- Unsurpassed quality

### Hatenboer-Water in a nutshell

- More than 100 experienced professionals
- Based in the Netherlands and Singapore
- All disciplines and facilities under one roof
- In-house engineering, 3D CAD design
- Continuous R&D
- Fully equipped workshop
- Privately owned

### Short delivery times

Next to providing fully integrated water treatment systems, we stock critical spare parts and consumables as pumps and filters in both Europe and Singapore.

*With proven track record of more than a thousand maritime water treatment units Hatenboer-Water 'takes care of your needs'.*



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