

RO type Fresh Water Generators

Containerized sea water desalination systems

MRO 600 fresh water supply

Hatenboer-Water is specialised in water since 1906. We have proven that we are built to last, and so have our RO fresh water systems. Our philosophy: trouble free water treatment systems which are easy to install, operate and maintain. With this principle in mind we developed the standard MRO 600; fresh water generators according to our high value standards and offering an optimal return on your investment.

Application

The MRO 600 water maker has a capacity of 600 m³/day fresh water production from sea or well water. It can be used for industrial or commercial applications including drinking water production, salmon farming, horticultural or food & beverage industries.

Energy efficiency

In order to keep the energy consumption of our desalination plants as low as possible, the unit has been equipped with an energy recovery module. With the energy recovery a power consumption of down to 2,6 kWh/m³ product water can be reached.

Low maintenance

Our complete, plug and play MRO 600 system is well equipped as a standard. It includes:

- Innovative automatic in-line pre-filtration
- Conservative membrane design with low loads to minimize fouling
- Automatic fresh flush system to prevent fouling at standby modus
- Chemical cleaning unit for cleaning fouled membranes
- Chemical conservation to preserve membranes in off line modus, preventing extensive maintenance.

Heavy duty design

- 40 ft high cube container
- Duplex stainless steel high pressure manifolds for long life time
- Slow running high pressure pump for long life time and minimal down time
- Reliable field proven performance

With a proven track record of over a thousand water treatment units in operation world wide, Hatেনboer-Water takes care of your water needs.



Standard features

- Energy recovery
- Remote monitoring
- Fully automatic operating RO system
- Minimum operator attendance for maintenance and service
- Membrane configuration optimized for a range of seawater salinity levels and temperatures
- 3 years free of charge 'log sheet data support'
- Digital product water quality control

Optional features

- Post treatment equipment (such as rehardening/remineralisation, UV disinfection, HADEX® chlorination dosing), to improve and preserve water quality
- Intake pump

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Compliant with

- EC directives
- Machinery Safety (2006/42/EC)
- EMC Directive (2004/108/EC)
- Low Voltage Directive (2006/95/EC)



Features

MRO 600

Capacity	max. 600 m ³ per day
Installed Power	80 kW
(kW motor installed)	400/415 Volt (50 Hz)
(ex intake pump)	440/480/690 Volt (60 Hz)
Feed water	54 m ³ /h
Dimension	12.192 (L) x 2.438 (W) x 2.896 (H) mm 40 ft container
Weight	approx. 7.500 kg
Weight In operation	approx. 12.500 kg
Feed water, TDS design	35.000 ppm
Maximum pressure	69 bar
Design temperature	5 - 25°C
Quality product water	< 200 ppm
Design recovery	max 50%
Max pressure @ product water	2 bar
Max pressure @ brine	3 bar
Material HD manifold	Duplex SS 1.4462
Material low pressure piping	PVC-U PN16

Custom built

The mobile RO system is based on a high quality standard design. In some situations our standard design may not be suitable due to limited access or space, inferior feed water quality, special design demands etc. In these cases our engineering department is able to design a custom built system, suitable for your situations.