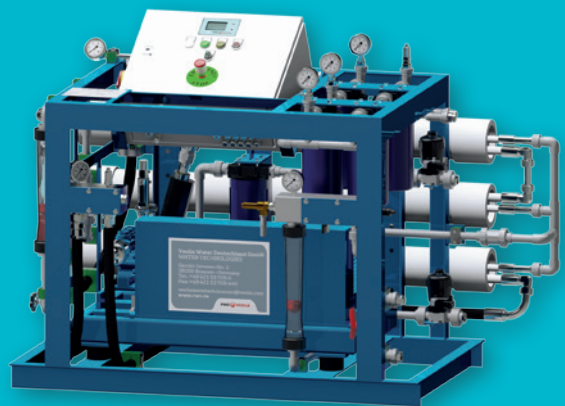


SRO-COM Seawater Reverse Osmosis Desalination

RWO  VEOLIA

High-quality fresh
water with maximum
salinity of 500 ppm



WATER TECHNOLOGIES

SRO Fresh Water Maker

The SRO-COM is a standardized seawater desalination plant for service onboard ships. Seawater reverse osmosis plants are an advantageous solution whenever desalinated water for drinking, utility and process applications is needed. The technology is simple, the operation easy and only limited maintenance is required.

RWO has now completed the re-design of smaller systems, and offers this standardized »off-the-shelf« unit for capacities up to 60 m³/day.

This desalination plant has a stable permeate flow over the complete temperature range from 1°C to 35°C. The SRO units come with a built-in concentrate displacement device that will extend the membrane operation cycle.

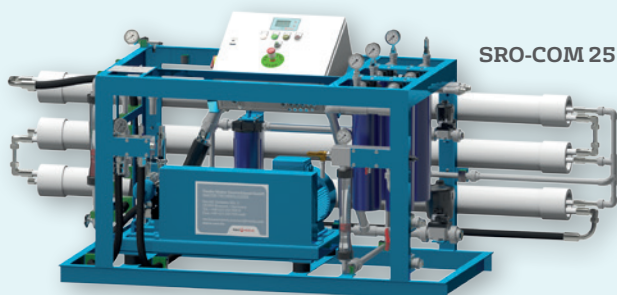
The system is part of RWO's leading **Total Water Management** offer.

Your key benefits

- > Simple technology and modular design
- > Automated operation and low maintenance requirements
- > Designed for start-and-forget operation in periodically unmanned engine rooms and other automated operations
- > Continuous operation: no downtime
- > Simple, compact installation
- > Proven technology - thoroughly tested in full scale
- > High water recovery rates
- > High-quality fresh water with a maximum salinity of 500 ppm
- > No chemicals needed

Advanced membrane technology

The newly developed SRO-COM seawater reverse osmosis plants from RWO offers state-of-the art technology by using low energy membranes. Compared to conventional systems, they produce the same permeate rate at a considerably lower operating pressure, resulting in lower investment and lower energy costs.



Available options

- > Media Filter as pre-filtration
- > RO-Cleaning Station (CIP)
- > Buffering tank
- > Antiscalant Dosing
- > Post Treatment (Mineralisation, Chlorination, UV-steriliser)

High reliability plant control

The heart of the plant is the integrated electronic control device, with a user friendly digital display. The graphic on the display shows the temperature, conductivity, operating pressure and operating hours. All failure recordings including the alarm and warnings can be checked through the menu feature.

Technical Data

Type	Permeat*	Recovery	Desalination Rate*	Motor capacity	Overall width	Overall height	Overall depth
	M ³ /day	%	%	kW	mm	mm	mm
SRO-COM 10	10	21	ca. 96 - 99%	5,5	1654	1080	940
SRO-COM 25	25	35	ca. 96 - 99%	10	2667	1088	940
SRO-COM 40	40	28	ca. 96 - 99%	20	2060	1185	1208
SRO-COM 60	60	32	ca. 96 - 99%	25	2936	1150	1208

How it works

The process diagram below shows the general configuration of a SRO-COM plant. The two-stage filter system protects the membranes from suspended particles in the feed water. If the seawater has a high content of impurities, it is preferable to install an additional filter (such as sand filter). Generally a high pressure pump is used to provide working pressure up to a maximum of 68 bar.

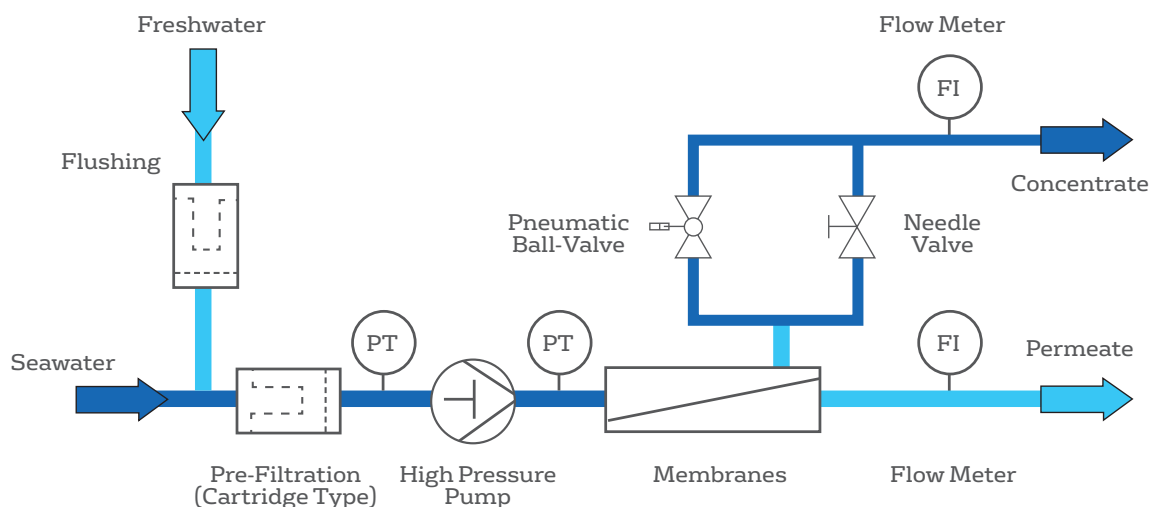
Permeate, i.e. desalinated water, passes through the membranes, while the remaining seawater takes up the rejected salts and leaves the modules as concentrate back to the sea.

The reverse osmosis membranes remove salts and minerals. The post-treatment, which is available as an option, also removes all kinds of impurities hazardous to human health, such as viruses, bacteria and legionella. It is a safe method to produce perfectly fresh water. The quality of the water is in accordance with European, international WHO and US Health Standards.



SRO-COM 60

> Operating principle



Resourcing the world

SALES

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SPARES

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SERVICE

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