

Watermakers for sea water

For potable water



Enwa SW 15-37T RO

Enwa's new water maker series produces drinking water from sea water based upon the reliable and environmentally friendly reverse osmosis membrane technique. The new series is designed for Marine and Offshore installations.

The capacity range is between 10-37T/24h from sea water with a temperature of 25 (degrees Celsius) at a TDS of 35 500.

The quality of the produced water is continuously monitored by a built-in salinity meter to ensure WHO Guidelines compliance.

This new and unique design is based upon modular add-on in accordance with highest HSE demands and for easy access, service and maintenance.

The unit is Green Passport ready and has a small footprint for Plug and Play operation and installation.

The unit is prepared for installation of Energy saving device for all capacities.

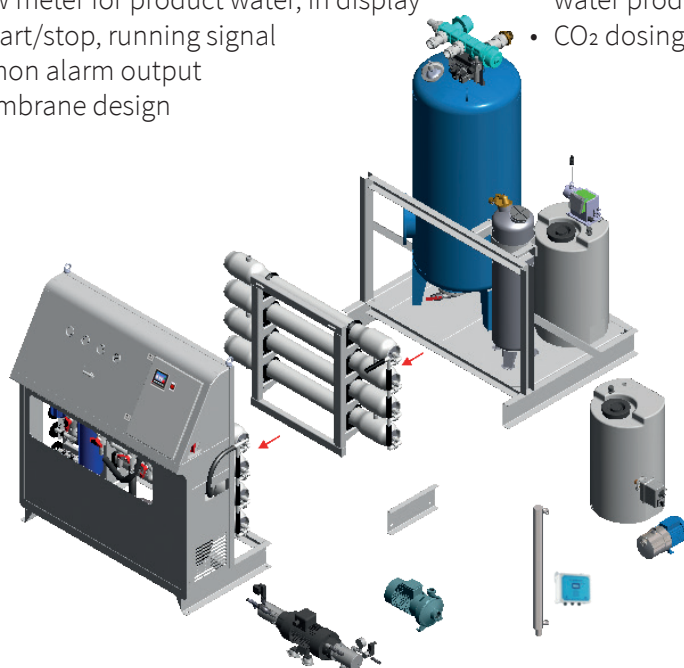
The new unique design incorporates touchscreen display for ergonomic HMI demands and the unit is prepared for communication to ECR or IACS, for example via profibus/MODBUS.

The Standard RO unit includes

- Prepared for modular design add-on's
- High pressure piping system in SS316L material
- Direct driven media lubricated high pressure pump
- Continuous control of product water quality via a salinity meter and a pneumatic 3-way valve
- Automatic flush after each stop, via a active carbon cartridge filter (neutralizing chlorine) with warning system for maintenance
- Low pressure switch before the HP pump
- Hi-Flow cartridge filter 20", 5 micron, for feed water
- Pressure gauges (4 pcs), mounted on gauge board
- Pressure relief valves (3 pcs)
- Digital flow meter for product water, in display
- Remote start/stop, running signal and common alarm output
- Latest membrane design

Optional Equipment

- CIP 100L cleaning tank with pump, heater, stirrer and connections
- Re-hardening filter in stainless steel 316L to increase pH value of product water
- Energy recovery unit
- UV sterilizer
- Dosing equipment with or without flow meter for chlorination, anti-scaling or chlorine removal
- Pre-filtration sand filters or mechanical automatic back washing filters
- Feed pump or pressure reducing valve for sea water
- Second stage membrane system for technical water production
- CO₂ dosing system



SW 15-37T RO	15T	20T	30T	37T		15T	20T	30T	37T
Capacity (m ³ /day)	15	20	30	37	Width (mm)	1400	1400	1400	1400
Installed power high pressure pump (kW) (50 / 60Hz)	5.5/6.4	7.5/8.7	9.2/10.7	11/12.8	Depth (mm)	810	810	900	900
Max power consumption (70 bar)	4.2/4.2	5.9/6.0	8.2/8.2	9.7/11.7	Height (mm)	1520	1520	1520	1520
Installed power feed pump (kW) (50 / 60 Hz)	0.75 / 1.1	0.75/1.1	2.2/2.2	2.2/2.2	Weight dry (kg)	390	415	446	490
Raw water flow (m ³ /h)	1.70	2.5/2.4	3.47	4.0/4.7	Weight (operational) wet (kg)	420	455	498	550
Membranes (4")	4 pcs	6 pcs	2x4=8 pcs	2x5=10 pcs	Compressed dry instrument air (bar)	6	6	6	6

The capacity is calculated with a sea water temperature at 25°C and a TDS at 35 500ppm.

Enwa Water Technology

Importgatan 21
SE-422 46 Hisings Backa, Sweden
Phone: + 46 31 742 92 50
E-mail: mar-off@enwa.com

Nordre Kullerød 9 Postboks 1241
NO-3205 Sandefjord, Norway
Phone: + 47 33 48 80 60

Engine Block, The Sidings, Merrylees Industrial Estate
Leicestershire, LE9 9FE, United Kingdom
Phone: + 44 1530 830 354