

SERIE RO-SW4

SEA WATER DESALINATION



RO-SW4 SERIES OSMOSIS

RO-SW4 reverse osmosis systems are highly efficient for the desalination of seawater, guaranteeing a final product with a salinity of less than 500 ppm, making it suitable for many uses.

These units are manufactured with high quality components and materials, ensuring durability and easy maintenance, which prolongs their useful life.

Furthermore, the production capacity of these systems is quite flexible, varying from 220 liters per hour to 1200 liters per hour, thus adapting to various desalinated water supply needs.

RO-SW4 SERIES OSMOSIS

INDUSTRIAL OSMOSIS

MAIN COMPONENTS

- 1 micron microfiltration.
- Motorized PVC inlet valve.
- Minimum pressure switch.
- Maximum pressure switch.
- CAT high pressure pump.
- Permeate and rejection flowmeter.
- Regulating valve in 316 stainless steel.
- Pressure gauges in 316 stainless steel (Microfiltration inlet, microfiltration outlet, pump pressure and rejection pressure).
- Motorized drag valve in 316 stainless steel.
- 1000 psi End-port PRFV membrane holders.
- High salt rejection seawater membranes.
- Electrical panel with PLC HW.
- Permeate conductivity meter.
- Structure in 304 stainless steel.
- Low pressure collectors made of PVC PN16
- High pressure manifolds built with high pressure hoses and superduplex stainless steel.

REQUIREMENTS

- TDS water supply: ≤ 36.000 mg/l
- Design temperature: 18°C
- Working pressure: 49 – 60 bars
- Inlet pressure: 3-4 bar
- Salt rejection: 98 – 99 %
- Working temperature: 10 – 30 °C
- Power supply: 380 - 400 VAC - 50 Hz

OPTIONS

- Flushing system
- Conductivity meter for raw water
- Raw water redox meter
- Raw water pH meter

CODE	MODEL	PRODUCTION		MEMBRANE	PUMP TYPE (Kw)	RECOVERY (%)	DIMENSIONS (mm)		
		L/h**	m³/d				LONG	DEPTH	HIGH
RO-0804-02	RO-SW240	220	5,28	2x4040	2,2	24	1010*	815	1830
RO-0804-03	RO-SW340	330	7,92	3x4040	2,2	32	1010*	815	1830
RO-0804-04	RO-SW440	440	10,56	4x4040	3	38	1010*	815	1830
RO-0804-06	RO-SW640	660	15,84	6x4040	3	45	3680	1012	1980
RO-0804-12	RO-SW1240	1200	28,80	12x4040	7,5	45	3680	1012	1980
OP-0404-32	Automatic flushing 200 L and 0.75 Kw flushing pump: RO-SW240, RO-SW340, RO-SW440 and RO-SW640								
OP-0404-34	Automatic flushing 300 L and 1.1 Kw flushing pump: RO-SW1240								
OP-0404-12	Raw water redox meter option								
OP-0404-14	Raw water pH meter option								
OP-0404-15	SW4 Conductivity meter option on the raw water line								

*If the automatic flushing and flushing pump option is chosen, 950 mm must be added to the length of the equipment.
** Design flow rates are for beach well intake. If the type of intake is different, please consult our technical department.

FOR OTHER DESIGN CONDITIONS AND/OR SPECIFICATIONS, CONSULT OUR TECHNICAL DEPARTMENT.

NOTE: All RO-SW4 series osmosis systems require adequate pre-treatment, which will depend on the type of intake and quality of the water to be treated. Likewise, depending on the application of the treated water, post-treatment may be necessary.