

Pre-engineered seawater Reverse osmosis



STANDARD FEATURES

- Seawater feed pump
- Dual media filter/filters
- 5 micron cartridge filter/filters
- 8" FRP membrane housing 1000 psi
- High rejection seawater membranes
- Duplex stainless steel high pressure piping
- PVC low pressure piping
- High pressure pump in duplex stainless steel
- High pressure pump controlled by VFD
- Energy recovery device (turbocharger)
- Permeate remineralization
- Membrane automatic flushing system
- Chemical cleaning system
- PLC control
- Heavy duty steel frame

SC/OS SERIES

Skid-mounted heavy duty seawater desalination packages for ships and offshore platforms

OPTIONS

- **Energy recovery with pressure exchangers**
- **Chemical conditioning systems**
- **Configuration for hazardous areas**
- **Containerized version**
- **UF pre-treatment**
- **Skid customization according to the available space for installation**

DESIGN CONDITIONS

- **Design seawater salinity: 37500 ppm**
- **Minimum seawater temperature: 10°C**
- **Maximum seawater temperature: 30°C**
- **SDI < 5**

MODEL	SW100	SW200	SW250	SW350	SW500	SW1000
Permeate flow (m3/day):	100	200	250	350	500	1000
Feed flow (m3/hour):	9,3	18,5	23,15	34,71	46,30	92,60
Concentrate flow (m3/hour):	5,13	10,15	12,72	20,15	25,45	51
Membrane elements and Vessels						
Vessel quantity:	1	3	3	4	5	10
No. elements:	6	6	6	6	6	6
High Pressure feed pump						
Type:	Positive displacement	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal
Manufacturer:	Interpump or Danfoss	FEDCO	FEDCO	FEDCO	FEDCO	FEDCO
Motor kW	18,5	37	45	55	90	160
Energy Recovery Device						
Type:	Turbocharger	Turbocharger	Turbocharger	Turbocharger	Turbocharger	Turbocharger
Manufacturer:	FEDCO or PEI	FEDCO or PEI	FEDCO or PEI	FEDCO or PEI	FEDCO or PEI	FEDCO or PEI
Cartridge filter						
Filter quantity:	1	1	1	2	2	4
Cartridge quantity each:	1	1	1	1	1	1
Installation and utility requirements						
Inlet:		DN50	DN50	DN80	DN80	DN100
Permeate:		DN40	DN40	DN50	DN65	DN80
Concentrate:		DN40	DN40	DN50	DN80	DN100
Inlet water pressure (bar)	2	2	2	2	2	2