

# Sea water Standard Series

Pre-Assembled Reverse Osmosis plant for Quick Installation at site

Series - 200

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The SWRO series -200 covers applications, industrial application, Potable water; boiler feed water, irrigation and plant process water. For applications with challenging feed water source, combination of multimedia filtration, Ultra filtration can be installed as per the feed water condition.

Series – 200 covers the wide range of salinity range and is suitable for quick installation. Pretreatment can be selected based on feed water quality which includes ultra-filtration, media filtration manual or automatic with or without backwash pump.

Automation and control requirement can be further selected as a project specification.

## Standard Model Available as Series – 200

Model No and specifications						TDS range and flow in US Gallon per day					
Model No	Membranes	MMF	CF	LPP	HPP	20K	25K	30K	35K	40K	45K
WES-500-132-G	8"x40"-42	63"x63"-2	2.5"x40"-18+18	11	90.0(G)	---	--	--	150,000	132,000	132,000
WES-500-132-F	8"x40"-42	63"x63"-2	2.5"x40"-18+18	11	88.0(G)	---	--	--	150,000	132,000	132,000
WES-567-150-G	8"x40"-48	63"x63"-3	2.5"x40"-18+18	15	132(G)	---	200,000	200,000	--	150,000	150,000
WES-567-150-F	8"x40"-48	63"x63"-3	2.5"x40"-18+18	15	111(G)	---	200,000	200,000	--	150,000	150,000
WES-757-200-G	8"x40"-60	63"x63"-4	2.5"x40"-27+27	18.5	160(G)	---	264,000	264,000	200,000	200,000	200,000
WES-757-200-F	8"x40"-60	63"x63"-4	2.5"x40"-27+27	18.5	118(F)	---	264,000	264,000	200,000	200,000	200,000
WES-1000-264-E	8"x40"-84	63"x63"-5	2.5"x40"-36	18.5	185(E)	---	---	---	---	264,000	264,000
WES-1320-300-E	8"x40"-108	63"x63"-6	2.5"x40"-54	22	256(E)	---	---	---	---	300,000	300,000
WES-1500-396-E	8"x40"-120	63"x63"-6	2.5"x40"-54	22	256(E)	---	---	---	---	396,000	396,000

### Legends

- Membranes Size 8" x40" – 36 "Means - 8" Sea water membranes – 36 no in qty
- MMF – 24"x65" – M , means " 24 inch diameter x 65 inch in height" – manual operated
- CF – 2.5"x40" -5+5 – means 2.5"x40" – 5 no CF in each housing and this is available for 10 and 5 micron
- CF – 2.5"x40" -9+9 – means 2.5"x40" – 9 no CF in each housing and this is available for 10 and 5 micron
- LPP( Kw) is capacity of feed water pump – KW
- HPP(Kw) is capacity of high pressure pump – KW
- Model number ends with "G" means – Grundfos high pressure pump and "F" – means Fedco high pressure pump.

- TDS range and flow in GPD – indicates capacity of plant in US gallon per day based on TDS range in scale of 20K ( 3000PPM) – 45K (15000PPM)
- Capacity shown as “----“means not suitable for the TDS range selected.

#### Standard Features:

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- MS Epoxy coated frame construction for corrosion resistance.
- 8” TFC spiral wound sea water membranes from Hydranautics as standard model SWC 5LD.
- 1000 Psig FRP membrane housing made of Code line.
- High Pressure pump of made of Duplex stainless steel / SS904L multi-stage from Fedco USA/ ERI - USA/ Grundfos - Denmark with TEFC motor.
- Turbo charger as standard energy recovery device
- Feed pump of Duplex Stainless steel – 2205.
- Multimedia filter with manual control valve for pre filtration
- Poly propylene / PVC / PP- 10 and 5 micron cartridge pre-filter
- Dosing pump SEKO with 100 ltrs dosing tank for pre chlorination, de chlorination, Antiscalant, post PH correction and Post chlorination dosing
- Power supply: 410V/3Ph/50Hz
- High pressure pump VFD controlled
- 220v/ 1ph/ 50Hz control voltage
- Relay controlled control panel for easy maintenance.
- Duplex stainless steel piping.
- Duplex stainless steel coupling for high corrosion resistance
- Low pressure and high pressure switch for shutdown with Auto Restart
- Product PH and product conductivity online display.
- Liquid filled pressure gauges, panel mount for pump suction, membrane feed, and final concentrate
- Storage tank control vide float switch in feed and product water tanks
- Permeate & concentrate flow meters from Blue White USA – GF signet
- Made in UAE

#### Optional Features:

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- Stainless steel 316 as skid
- PLC controlled control panel
- Multimedia filter additional as per raw water quality
- Automation of Multimedia filter
- ORP or flow meter as digital display
- Additional dosing pumps for pretreatment system.
- Additional filtration system as per water quality requirement.
- Pressure exchanger as energy recovery

**Price Details : Please check with celar representative for quote**