

Industrial Seawater RO Systems

Capacity: 8,000 to 840,000 GPD

**SWI
SERIES**

Pure Aqua's seawater reverse osmosis systems are capable of removing salts, as well as other impurities such as bacteria, sugars, proteins, dyes and constituents that have a molecular weight greater than 150-250 Daltons.



SW-96K-4680

Pure Aqua supplies a full line of standard and customizable seawater reverse osmosis systems, all of which are engineered using advanced 3D computer modeling and process design software for accurate and customized solutions.

Standard Features

- ◆ Powder coated steel frame
- ◆ Heavy duty 5 micron cartridge prefilter (non metallic)
- ◆ Seawater resistant SS pump
- ◆ Microprocessor/PLC based control panel & VFD
- ◆ Glycerin-filled 316 SS pressure gauges w/ diaphragm seal
- ◆ Product & reject flow meters
- ◆ TFC spiral wound membranes
- ◆ FRP membrane housings
- ◆ 460V/3ph/60Hz power requirement
- ◆ Low & high pressure switches
- ◆ Permeate TDS monitor
- ◆ Stainless steel high pressure piping
- ◆ Stainless steel throttling valve for reject stream
- ◆ Automatic feed shut off valve
- ◆ Energy recovery on 48K GPD and larger

Available Options

- ◆ Feed and re-pressurization pumps
- ◆ 380-415V/3ph/50Hz power requirement
- ◆ Remote monitoring
- ◆ Product tank level switch
- ◆ pH controller with sensor
- ◆ ORP controller with sensor
- ◆ Cleaning skid
- ◆ 50 micron bag filter for open intake
- ◆ Carbon prefilter
- ◆ Multimedia prefilter
- ◆ Post UV sterilizer
- ◆ Custom designed units
- ◆ Chemical dosing units
- ◆ Containerized RO systems
- ◆ PX Pressure Exchanger®-energy recovery

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Operation Specifications

- 💧 Max. feed water temperature: 42°C
- 💧 Feed water pressure: 40 to 80 psi
- 💧 Operating pressure: 700 to 1,000 psi
- 💧 H₂S, turbidity and organics must be removed
- 💧 Max. iron content: 0.05 ppm
- 💧 Feed water TDS: 10,000-42,000 ppm
- 💧 Equipment upgrade for TDS up to 50,000 ppm
- 💧 Antiscalant dosing is required
- 💧 pH tolerance range: 3-11
- 💧 Biological or organic content must be removed

Model #	Permeate Flow Rate		Quantity of 8" Membranes (Single Stage)	Motor Rating HP at 42,000 ppm		Approx. Weight (lbs)	Dimensions L"xW"xH"
	gpd	m ³ /d		60Hz	50Hz		
SW-8K-1280	8,000	30	2	15	15	2,600	110x40x60
SW-12K-1380	12,000	45	3	15	20	2,650	150x40x60
SW-16K-1480	16,000	61	4	25	25	2,700	195x50x70
SW-20K-1580	20,000	76	5	25	25	3,000	225x50x75
SW-24K-2380	24,000	91	6	30	30	3,200	150x40x60
SW-32K-2480	32,000	121	8	40	40	4,200	195x50x70
SW-48K-2680	48,000	182	12	40	50	5,600	280x60x75
SW-64K-4480	64,000	242	16	60	60	6,500	195x60x75
SW-72K-3680	72,000	273	18	75	75	12,000	280x60x75
SW-96K-4680	96,000	363	24	75	75	13,000	280x65x75
SW-120K-5680	120,000	454	30	100	100	14,000	280x70x90
SW-144K-6680	144,000	545	36	125	125	15,000	280x80x75
SW-168K-6780	168,000	636	42	125	125	16,000	325x80x85
SW-196K-7780	196,000	742	49	150	150	16,500	325x80x85
SW-224K-8780	224,000	848	56	200	200	17,000	325x80x85
SW-252K-9780	252,000	954	63	200	200	18,000	325x80x90
SW-280K-10780	280,000	1,060	70	200	200	19,000	325x80x95
SW-336K-12780	336,000	1,272	84	250	250	20,000	325x80x100
SW-420K-15780	420,000	1,590	105	300	300	21,200	325x80x100
SW-504K-18780	504,000	1,908	126	350	350	22,000	425x188x110
SW-560K-20780	560,000	2,120	140	400	400	27,000	425x190x110
SW-672K-24780	672,000	2,544	168	500	500	30,000	425x200x110
SW-840K-30780	840,000	3,179	210	600	600	35,000	425x250x110

Pure Aqua SWI systems are designed to include energy recovery turbine for SW-48K-2680 and larger, The pressure exchanger and iSave devices are offered as an option.

Ordering guide examples:

- SW-120K-5680-ERT, it includes the energy recovery turbine
- SW-120K-5680-PX, it includes the pressure exchanger device
- SW-120K-5680-IS, it includes the iSave energy recovery device

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Authorized Dealer: