

PWT Standard Seawater Desalination RO Machine Product Information Updated

YB-SWRO700-2000-2/ YB-SWRO3000-5000-2/YB-SWRO7000-13000-2

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1.YB-SWRO Series Small Seawater Desalination Ro Machine Product Introduction



YB-SWRO700-2000-2



YB-SWRO3000-5000-2



YB-SWRO7000-13000-2

- ← As the content of salt in the seawater is too high, that can not be used directly, there are mainly two methods to desalinate seawater, distillation and reverse osmosis. Distillation is mainly used for super-huge type seawater desalination and heat energy rich area, energy consumption is very high. Reverse Osmosis is very widely applicable, low energy consumption and high desalination rate, so it's widely used.
- ← We use the international best quality of seawater RO membrane. The membrane's salt removing rate is very high, with stable performance, safe and reliable. The HP pump we used is the international brand which is specialized in seawater desalination, with high and low pressure protection device, ensure the safety and reliable of the equipment. The treated water quality meets the national life drinking water quality standards (GB5749-85), do not add any chemicals, can be used for direct drinking, fresh and sweet.
- ← For the portable use, reliable water, cheap price etc., after a long time of design and practice, we integrate the reliable technology and advanced technology, make our equipment stand out! From here on, you will experience the different use feelings!

2.YB-SWRO Series Small Seawater Desalination Ro Machine Advantages and Characteristics



1. Online conductivity meter, real-time monitoring equipment effluent water quality status.
2. Metal with light button control, metal aluminum cap, pure silver contact, work more reliable.
3. Metal indicator light, high-brightness LED light, display device high voltage, low voltage, overload alarm status.
4. Stainless steel regulating valve for precise flow adjustment, high pressure resistance and corrosion resistance.
5. Stainless steel pressure gauge, beautiful, reliable, vibration-resistant.
6. Panel type flow meter, the whole is made of plexiglass material, clear scale, sealed and hygienic.
7. Professional electric control box water and electricity separation, waterproof rating IP55.
8. The famous brand high-quality UV sterilizer has a wavelength of 245nm, which effectively solves the problems of secondary pollution of effluent bacteria.
9. Built-in high-quality coconut shell granular activated carbon to remove odor and improve taste.
10. The secondary 5 micron PP cotton pre-filter can more effectively remove the large particles of impurities such as sediment, algae and suspended solids in the raw water to ensure the water inlet requirement of the RO membrane.
11. Detachable stainless steel handrail, easy and simple.



1. Auto working by pressing one key, easy and convenient to operate.
2. Dual control system, PLC touch screen control + relay control. Effectively solve the problem that the control system fails to use.
3. The machine sets up high and low voltage protection to prevent the machine from break downing.
4. Device fault alarm and indication is convenient for identifying the causes and maintenance quickly.
5. All kinds of flow and pressure testing instruments, monitoring the device operating state at any time.
6. Online conductivity meter, monitoring the output water quality at any time.
7. Fully polished stainless steel frame, safe and fastness, elegant appearance.
8. Famous brand high quality seawater RO membrane, salt removing rate can reach up to 99.8%.
9. High quality quartz sand filter, can remove the large impurities, alga and so on, can optional manual /automatic control.



10. Cartridge filter protect RO membrane, prolong RO membrane's service life.
11. High quality raw water pump and high pressure pump for seawater desalination.
12. Final Production water of ultraviolet disinfection online to ensure the output water quality.
13. High quality SS316L electric slowly open valve, slow opening and closing device high pressure.
14. Simple connection, safe and reliable.
15. All of the high pressure fittings adopt SS316 material, safe and corrosion resistant.
16. Low pressure fittings adopt high quality UVPC material, Food grade health.
17. Automatic and regular washing can improve water quality and water quantity and effectively prolong the service life of RO membrane.
18. DC24V direct current is used for control and instrument, which is safe and reliable.

- ← YB series Movable Seawater Desalination System also has modern design and high integration etc. characteristics.
- ← YB series Movable Seawater Desalination System, volume 97cm L * 60cm W * 137cm H, only weight 180-230 KG, moveable design, easy to move and assemble.
- ← YB series Movable Seawater Desalination System has most matching accessories, can directly use after connect with water and power, easy operation.
- ← YB series Movable Seawater Desalination System has a wide range of power supply, can be connected with common household AC power, gasoline/diesel generator, also can be connected with solar and wind etc. environmental energy.

3.YB-SWRO Series Small Seawater Desalination Ro Machine Application range



1. Can be used for ships, fishing boats, yachts, marine, navy drinking water use;
2. Can be used for island family, island restaurant, seaside villa, island resorts drinking water use;
3. Can be used for salty alkali lake drinking water use;
4. Can be used for desert underground water;
5. Can be used for offshore operation platform and floating house;

4.Main configuration

4.1 Model: YB-SWRO700-2000-2

Model/main configuration	YB-SWRO700-2	YB-SWRO1400-2	YB-SWRO2000-2
Core filtration component	SW2521 seawater desalination membrane 1pcs	SW2521 seawater desalination membrane 2 pcs	SW2521 seawater desalination membrane 3 pcs
Pretreatment	20inch 5 micron PP filter 2pcs		
Post treatment	10W ultraviolet sterilizer and And large T33 coconut shell activated carbon		
Raw water pump	High quality SS316L stainless steel CNP pump		
High-pressure pump	High quality imported brass material		
Instrument	High pressure pump inlet pressure gauge, high pressure pump outlet pressure gauge, SS316L overpressure switch, fresh water flowmeter, online conductivity meter		
Optional	Level switch, pressure bucket, quartz filter		

4.2 Model: YB-SWRO3000-5000-2

Model/main configuration	YB-SWRO3000-2	YB-SWRO4000-2	YB-SWRO5000-2
Core filtration component	SW2540 seawater desalination membrane 2pcs	SW2540 seawater desalination membrane 3pcs	SW2540 seawater desalination membrane 4pcs
Pretreatment	Quartz filter, 5 micron PP filter 2pcs		
Raw water pump	High quality SS316L stainless steel		
High-pressure pump	High quality imported brass material		
Instrument	High pressure pump inlet pressure gauge, high pressure pump outlet pressure gauge, SS316L overpressure switch, fresh water flowmeter, online conductivity meter		
Post treatment	Water production terminal ultraviolet sterilizer online sterilization		

4.3 Model: YB-SWRO7000-13000-2

Model/main configuration	YB-SWRO7000-2	YB-SWRO10000-2	YB-SWRO13000-2
Core filtration component	SW4040 seawater desalination membrane 2pcs	SW4040 seawater desalination membrane 3pcs	SW4040 seawater desalination membrane 4pcs
Pretreatment	quartz filter,5 micron PP filter 2pcs		
Raw water pump	High quality SS316L stainless steel		
High-pressure pump	High quality imported brass material		
Instrument	Raw water pump inlet pressure gauge, High pressure pump inlet pressure gauge, inlet flowmeter, fresh water flowmeter, waste water flowmeter , online conductivity meter		
Ultraviolet Sterilizer	Water production terminal ultraviolet sterilizer online sterilization, Ensure fresh water quality		
Optional	Raw water level switch		

Consumable replacement cycle:

1. Quartz sand: about one year, depends on water quality.
2. 5 micron PP filter : about 3 months, depends on water quality.
3. RO membrane: about 3 years , depends on water quality.

Note: the above replacement cycle is calculated by running 20 hours per day on the premise of meeting the conditions of use and maintenance of the equipment.

5.YB-SWRO Series Small Seawater Desalination Ro Machine Technical parameters

5.1 Model: YB-SWRO700-2000-2

Model	YB-SWRO700-2	YB-SWRO1400-2	YB-SWRO2000-2
The standard flow	29L/H	58L/H	82L/H
Recovery rate	4%	8%	12%
Applicable power	AC110-240V 50/60HZ, 1 phase/3 phase		
Power	1.9KW		
Inlet water TDS	<45000ppm		
Freshwater TDS	<600ppm		
Working pressure	<6Mpa		
Working temperature	5-45°C		
Inlet water residual chlorine	<0.1ppm		
Inlet water oil and grease	<0.1ppm		
Inlet water turbidity	<2NTU		
Inlet water PH	Neutral		
Inlet water COD	≤10ppm		
Inlet water BOD	≤5ppm		
Equipment specification	72*46.5*63 (cm)	Equipment net weight	70-90Kg
Packing specification	86*63*80 (cm)	Packing gross weight	100-110Kg

5.2 Model: YB-SWRO3000-5000-2

Model	YB-SWRO3000-2	YB-SWRO4000-2	YB-SWRO5000-2
The standard flow	125L/H	165L/H	205L/H
Recovery rate	15%	23%	29%
Applicable power	AC110-440V, 50/60HZ, 1 phase/3 phase		
Power	2.8KW		
Inlet water TDS	<45000ppm		
Freshwater TDS	<600ppm		
Working pressure	<6Mpa		
Working temperature	5-45°C		
Inlet water residual chlorine	<0.1ppm		
Inlet water oil and grease	<0.1ppm		
Inlet water turbidity	<2NTU		
Inlet water PH	Neutral		
Inlet water COD	≤10ppm		
Inlet water BOD	≤5ppm		
Equipment specification	97*60*137 (cm)	Equipment net weight	180-230Kg
Packing specification	110*77*165(cm)	Packing gross weight	200-250Kg

5.3 Model: YB-SWRO7000-13000-2

Model	YB-SWRO7000-2	YB-SWRO10000-2	YB-SWRO13000-2
The standard flow	290L/H	415L/H	540L/H
Recovery rate	20%	25%	30%
Applicable power	AC380-440V, 50/60HZ, 3 phase		
Power	4.6KW		
Inlet water TDS	<45000ppm		
Freshwater TDS	<600ppm		
Working pressure	<6Mpa		
Working temperature	5-45°C		
Inlet water residual chlorine	<0.1ppm		
Inlet water oil and grease	<0.1ppm		
Inlet water turbidity	<2NTU		
Inlet water PH	Neutral		
Inlet water COD	≤10ppm		
Inlet water BOD	≤5ppm		
Equipment specification	1091X800X1559(mm)	Equipment net weight	340-380Kg
Packing specification	1240X980X1840(mm)	Packing gross weight	367KG, 388KG,400Kg

Note: "Standard flow rate" is based on the following test conditions, 32000ppm NaCl, 25° C and the recovery shown in the above table. Due to the different salt content and water quality of seawater, the flow range does not exceed ±20%.

Thanks for watching

If you are interested in PWT portable sea water desalinator,
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