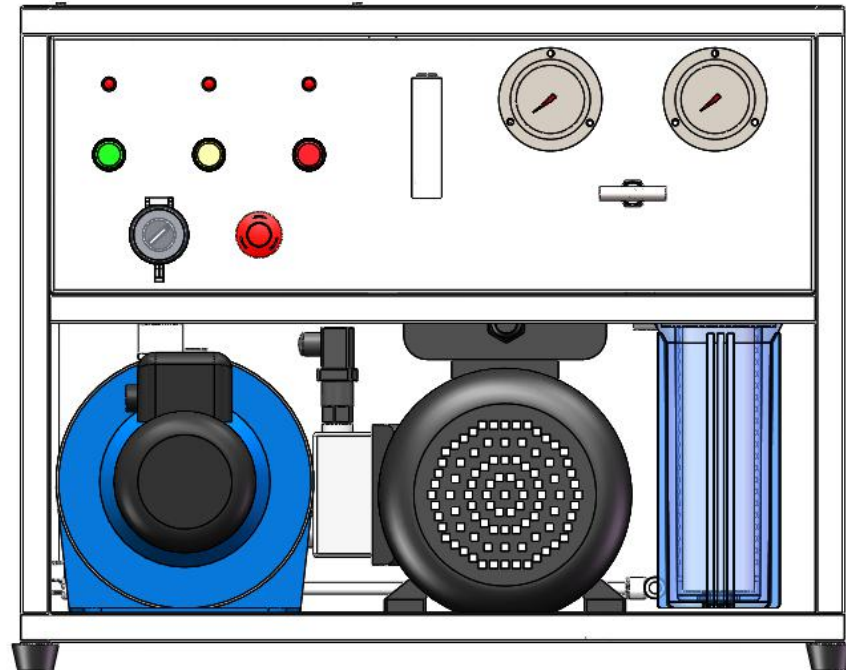


# Portable seawater desalination machine YB-ID700/1400/3000-2 Product introduction

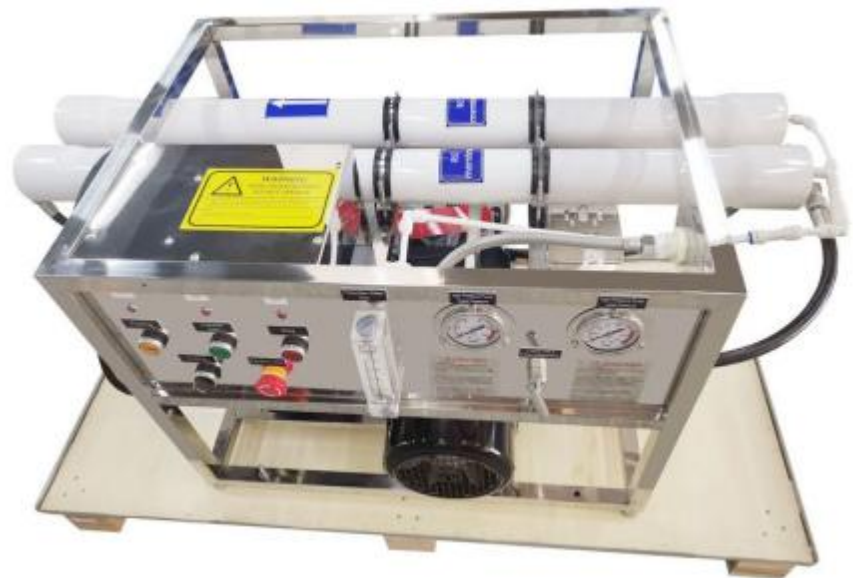


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# Catalog

1. Product Introduction
2. Advantages & Characteristics
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# 1. YB-ID700/1400/3000-2 series portable seawater desalination machine product introduction



- 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 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-ID700/1400/3000-2 series portable seawater desalination machine Advantages & Characteristics

### 1. Structure

The equipment is small in size, light in weight, and easy to carry and transport. The machine is very convenient for installation on ships, offshore platforms, island villas, hotels and other places where size is required; Standard frame is stainless steel 304, the frame also can be customized in different materials.

### 2. Control

This Seawater Desalination Machine is suitable for different power sources, such as 1phase, 3phase, AC110-440V, 50/60Hz, etc. In addition to the use of ac power for the motor, the control instrument uses DC24V power source, which is safe and reliable. The equipment is equipped with flushing and water making operation procedures. The equipment is set to stop with liquid level protection, low pressure protection, overpressure protection and overcurrent protection, etc. The electrical components selected are reliable and durable, the circuit designed is simple and practical, and the control system is easy to maintain and replace.

### 3. Maintain

Important parts of the equipment frame are standardized modules, such as control box, operation panel, pretreatment, host, etc., which can be removed for maintenance or replacement. All connecting fittings and pipes (including ultra high pressure pipes) are threaded, and Youber standard fittings are adopted for easy repair or replacement.

### 4. Configuration

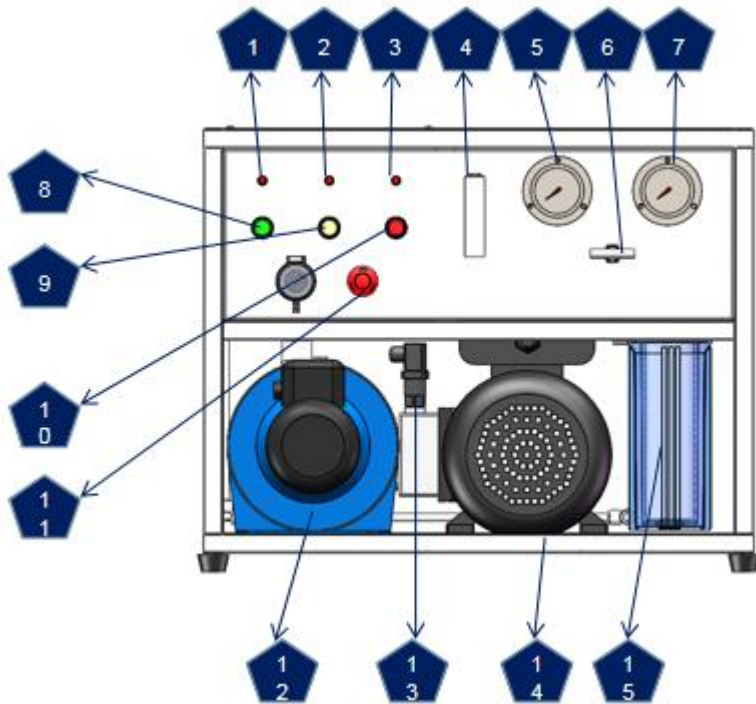
The equipment is designed with reserved space for replacement or selection, with abundant configuration options; Outside of standard configuration, you can choose: different material frame, different brands or materials of the original pump or self-priming pump, different materials of high pressure pump, quartz sand filter, online TDS instrument, terminal UV sterilizer, terminal shell activated carbon, installation of pipe, replacement of consumables, etc.

## 5.Performance

Seawater desalination machine the core and the most valuable parts is high pressure pump and desalination components, based on Yuber's desalination experience for many years, on the premise of guarantee the reliability and economy, with the improved after optimization of high quality high-pressure pump, use the same environment and daily maintenance, more easily than other brands on the market of pump maintenance, longer service life; The desalination component adopts mature and reliable technology. After desalination of seawater with salt content of 3000-40000mg /L, the salt content is less than the requirement of municipal tap water

- ◆ **YB series portable seawater desalination machine also has modern design and high integration etc. characteristics.**
- ◆ **YB series portable seawater desalination machine, small size, light weight, moveable design, easy to move and assemble.**
- ◆ **YB series portable seawater desalination machine has most matching accessories, can directly use after connect with water and power, easy operation.**
- ◆ **YB series portable seawater desalination machine 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.**





No.	Name	No.	Name
1	Pressure alarm	9	Production water button
2	Liquid alarm	10	Stop button
3	Overpressure alarm	11	Emergency stop button
4	Production water flow meter	12	Suction pump
5	HP outlet pressure gauge	13	HP switch
6	Adjusting valve	14	High pressure pump
7	HP pump inlet pressure gauge	15	Pre-filters
8	Flushing button		

Standard process flow diagram

Raw water pump → String wound filter → PP filter → High pressure pump → desalination component

### 3. Applied range of YB-SWRO series portable seawater desalination machine



01

#### Sea navigation and operations

It can be used for drinking water for ships, fishing boats, yachts, naval fleets and so on, and also for drinking water of offshore working platform and floating object construction.



02

#### emergency relief

In coastal areas, when there are natural disasters such as typhoons, sea water machine can be used as the initial emergency equipment to provide potable clean water



03

#### Coastal, island

In some poor coastal areas where there is no clean drinking water, sea water machines can provide clean drinking water for daily household needs

#### 4. YB-ID700/1400/3000-2series portable seawater desalination machine

##### Main configuration

No	Name	Specification
1	Frame	SS304
2	Raw water pump	Suction pump AC220V50HZ 0.37KW
3	High pressure pump	AC220V50HZ 1.5KW
4	Prefilter	String wound filter, 10inch, 5um
5	Prefilter	PP filter, 10inch, 5um
6	RO membrane housing	2521/2540, FRP, 1000psi
7	RO membrane	2521/2540
8	High pressure switch	60BAR, SS316L
9	High pressure fittings	SS316L+PUR, 1000psi
10	Adjusting valve	SS316L, 1000psi
11	Electric cabinet	Stainless steel, AC110-240V,50/60HZ, DC24V Control

## 5. Technical parameters of YB-SWRO series Portable sea water desalination machine

### 5.1. YB-ID700-2

YB-ID700-2			
Rated flow rate	29L/H	Recovery rate	4%
Voltage	220V 50HZ	Power	1.9KW
Inlet TDS	<40000ppm	Working temperature	5-45°C
Design pressure	1000PSI	Outlet TDS	<700ppm
Inlet water source	pollution free sea water	Working pressure	≤850PSI
Machine net size	70*55*63 (cm)	Machine net weight	65KG

## 5. Technical parameters of YB-SWRO series Portable sea water desalination machine

### 5.2. YB-ID1400-2

YB-ID1400-2			
Rated flow rate	58L/H	Recovery rate	8%
Voltage	220V 50HZ	Power	1.9KW
Inlet TDS	<40000ppm	Working temperature	5-45°C
Design pressure	1000PSI	Outlet TDS	<700ppm
Inlet water source	pollution free sea water	Working pressure	≤850PSI
Machine net size	70*55*63 (cm)	Machine net weight	75KG

### 5.3. YB-ID3000-2

YB-ID3000-2			
Rated flow rate	125L/H	Recovery rate	15%
Voltage	220V 50HZ	Power	1.9KW
Inlet TDS	<40000ppm	Working temperature	5-45°C
Design pressure	1000PSI	Outlet TDS	<700ppm
Inlet water source	pollution free sea water	Working pressure	≤850PSI
Machine net size	110*55*63 (cm)	Machine net weight	85KG

# 6. CE certificate for portable seawater desalination machine

	<b>Shenzhen SEM.Test Technology Co., Ltd.</b> 1/F, Building A, Hongwei Industrial Park, Liuxian 2nd Road, Bao'an District, Shenzhen, P.R.C. (518101)
<b>CERTIFICATE OF CONFORMITY</b>	
Certificate No.: SEM15115660S	
The following product has been tested by Shenzhen SEM.Test Technology Co., Ltd. with the listing standards and found in conformity with the <b>EC Council Directive of 2006/42/EC</b> . It is possible to use CE marking to demonstrate the conformity with this <b>MD Directive</b> .	
<b>Report No</b>	: STR15118296S
<b>Applicant</b>	: Shenzhen Youber Technology CO., LTD 301 G BLDG ZAOHEKENG IND'L ZONE NO 8, JIXIA
<b>Address</b>	: COMMUNITY NANWAN ST, LONGGANG DIST SHENZHEN CITY CHINA
<b>Manufacturer</b>	: Shenzhen Youber Technology CO., LTD 301 G BLDG ZAOHEKENG IND'L ZONE NO 8, JIXIA
<b>Address</b>	: COMMUNITY NANWAN ST, LONGGANG DIST SHENZHEN CITY CHINA
<b>Description of Product</b>	: PORTABLE SEAWATER DESALINATION MACHINE
<b>Model No</b>	: YB-SWRO-2000L, YB-SWRO-500L, YB-SWRO-1000L,
<b>Trade Name</b>	: 
<b>Test Standards</b>	: EN ISO 12100:2010 EN 60204-1:2006+A1:2009
The referred test report(s) show that the product complies with the essential requirements in the above listed standards. The applicant is authorized to use this certificate in connection with the EC declaration of conformity according to Annex 1 of the Directive.	
	 Jandy So Supervisor Date of Issue: Dec. 24, 2015
This certificate of conformity is based on a single evaluation of the submitted sample(s) of the above mentioned product. It does not imply an assessment of the whole production and other relevant Directives have to be observed.	
Tel.: +86-755-33663308 Fax.: +86-755-33663309 E-mail: <a href="mailto:sem@semtest.com.cn">sem@semtest.com.cn</a> Website: <a href="http://www.semtest.com.cn">www.semtest.com.cn</a>	

# Pong Testing Report for movable seawater desalination system



报告编号(Report ID): MMBKXIYW08812555



## 检测报告 (Testing Report)

委托单位 (Applicant) Shenzhen Youber Technology CO.,LTD

受测单位 (Tested Unit) Shenzhen Youber Technology CO.,LTD

报告日期 (Approval Date) Jun.19,2018



## Testing Report

Report ID: MMBKXIYW08812555 Page 1 of 2

Applicant	Shenzhen Youber Technology CO.,LTD		
Tested Unit	Shenzhen Youber Technology CO.,LTD		
Tested Address	3RD FACTORY, NO 28 JIRONG ROAD, SHENKENG VILLAGE, LIUYUE COMMUNITY HENGANG ST, LONGGANG DIST SHENZHEN CITY CHINA		
Sampling Date	Jun.08,2018	Completed Date	Jun.19,2018
Sample No.	W08812555	Sample Name	Portable Seawater Desalination System
Sampling Place	Seawater Desalination System Production Water Outlet	Sample mode	Scene sampling
Test Methods	See the attached table		
Test Item	Test Result	GB 5749-2006 Standards for drinking water quality Limits	Unit
Total Coliform	Not Detected	Absent	MPN/100mL
Thermotolerant coliforms	Not Detected	Absent	MPN/100mL
Escherichia coli	Not Detected	Absent	MPN/100mL
Total plate count	Not Detected	100	CFU/mL
Arsenic	<0.0010	0.01	mg/L
Cadmium	<0.0005	0.005	mg/L
Chromium (VI)	<0.004	0.05	mg/L
Lead	<0.0025	0.01	mg/L
Mercury	<0.0001	0.001	mg/L
Selenium	<0.0004	0.01	mg/L
Aluminum	<0.040	0.2	mg/L
Iron	<0.0045	0.3	mg/L
Manganese	<0.0005	0.1	mg/L
Copper	<0.009	1.0	mg/L
Zinc	<0.001	1.0	mg/L

NY 谱尼测试  
Pony Testing International Group  
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Building 9, Pongning Industrial City, Chengye Road,  
Xixi, Shenzhen, Guangdong, China

Beijing Lab: 010-82618116  
Shanghai Lab: 021-64951999  
Guangzhou Lab: 020-81981988  
Dalian Lab: 0411-82513665  
Harbin Lab: 0451-83818651  
Tianjin Lab: 022-27567159  
Suzhou Lab: 0512-82579700  
Xinjiang Lab: 0991-8684188  
Chengde Lab: 0317-87736499  
Shijiazhuang Lab: 0311-85376666  
Xi'an Lab: 029-86067897  
Hefei Lab: 0551-3894474  
Wuxi Lab: 0510-83818651  
Nanchang Lab: 0791-88719999  
Chongqing Lab: 023-8684044  
Chongzuo Lab: 0821-7627028



## Testing Report

Report ID: MMBKXIYW08812555 Page 2 of 2

Attached table: Test method, apparatus, method source and detection limit

Test Item	Test method	Apparatus	Source	Detection limit
Total Coliform	Multiple-tube fermentation technique	Constant temperature incubator	GB/T 5750.12-2006	-
Thermotolerant coliforms	Multiple-tube fermentation technique	Constant temperature incubator	GB/T 5750.12-2006	-
Escherichia coli	Multiple-tube fermentation technique	Constant temperature incubator	GB/T 5750.12-2006	-
Total plate count	Culture dish notation	Constant temperature incubator	GB/T 5750.12-2006	-
Arsenic	Hydride atomic fluorescence spectrometry	AFS	GB/T 5750.6-2006	0.0010 mg/L
Cadmium	No flame atomic absorption spectrophotometry	Graphite furnace atomic absorption spectrophotometer	GB/T 5750.6-2006	0.0005 mg/L
Chromium (VI)	Diphenylcarbazide-spectrophotometry	Uv-vis spectrophotometer	GB/T 5750.6-2006	0.004 mg/L
Lead	No flame atomic absorption spectrophotometry	Graphite furnace atomic absorption spectrophotometer	GB/T 5750.6-2006	0.0025 mg/L
Mercury	Atomic fluorescence	AFS	GB/T 5750.6-2006	0.0001 mg/L
Selenium	Hydride atomic fluorescence spectrometry	AFS	GB/T 5750.6-2006	0.0004 mg/L
Aluminum	Inductively coupled plasma-optical emission spectrometry	ICP-OES	GB/T 5750.6-2006	0.040 mg/L
Iron	Inductively coupled plasma-optical emission spectrometry	ICP-OES	GB/T 5750.6-2006	0.0045 mg/L
Manganese	Inductively coupled plasma-optical emission spectrometry	ICP-OES	GB/T 5750.6-2006	0.0005 mg/L
Copper	Inductively coupled plasma-optical emission spectrometry	ICP-OES	GB/T 5750.6-2006	0.009 mg/L
Zinc	Inductively coupled plasma-optical emission spectrometry	ICP-OES	GB/T 5750.6-2006	0.001 mg/L

Compiled by: An Youjia Checked by: Pi Payang Approved by: Lang Guixin

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Wuxi Lab: 0510-83818651  
Nanchang Lab: 0791-88719999  
Chongqing Lab: 023-8684044  
Chongzuo Lab: 0821-7627028



# Thanks for watching

If you are interested in portable sea water desalinator,  
please contact us :

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27 Staple Street, Seventeen Mile Rocks

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Tel: 07 3376 9009

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PACIFIC WATER TECHNOLOGY