

SEAWATER DESALINATION

“The most innovative solution to the global water shortage problem”

FILTERTECH
QT ENVIRO TECH
SEAWATER DESALINATION
SYSTEM



Home page

 FILTERTECH

 QT ENVIRO-TECH
乾通环境科技



ABOUT & HISTORY

Leading company in domestic
seawater desalination

FILTERTECH

"Make human life healthy and happy
Make the world clean and beautiful"



Filter Tech is developing seawater desalination technology at home and abroad through a technology agreement with QT, a Chinese seawater desalination company.



Ministry of SMEs and Startups, Technology Information Promotion Agency, Research Village R&D project judged 'successful'

November 2018
Letter of Intent to Cooperate in
Seawater Desalination
(FILTERTECH/QT
Strategic partnership agreement)
concluded



2019

Acquired Patent No. 10-2005147 'Seawater Desalination System'
Venture business certification

Acquired Patent No. 10-1952517 'Water Fog Spray Device'
Cooling fog system design, design, production, construction and installation (Daejeon Metropolitan City Hall/Jung-gu Office/Daedeok-gu Office)
Selected as a clean workplace

2021

Completed installation of cooling fog system and intelligent quarantine system at the Ministry of Foreign Affairs in Hanoi, Vietnam

Acquired Patent No. 10-2313884 'Spray pipe connector assembly'
Acquired Patent No. 10-2310869 'IoT-based cooling fog management system tool'
Acquired Patent No. 10-2310885 'Cooling fog management system means that can predict the demand for cooling fog means'
Obtained ICT convergence quality certification hosted by the Ministry of Science and ICT
Participating in the Smart City Challenge hosted by the Ministry of Land, Infrastructure and Transport
Completed development of FilterTech intelligent quarantine system
Intelligent quarantine system R-R-FL3-EPFN-IDSR310
Acquired KC certification

2020

Acquired Patent No. 10-2123507 'Cooling Fog Controller Device'

Acquired Patent No. 10-2091926
'Nozzle structure for water mist spraying device'
Korea-ASEAN FTA country of origin certification and exporter certification for each item
Korea-China FTA country of origin certification for each item and exporter certification
Acquired Patent No. 10-2124114
'Neck warmer with mask function'

2022


Designated as an excellent innovation cluster
Acquire various certifications

Acquired Q mark certification hosted by KCL
Acquired family-friendly certification hosted by the Ministry of Gender Equality and Family
Acquired cooling fog system performance certification hosted by the Ministry of SMEs and Startups
Holds ESG management report
Designated as an excellent innovation cluster in Daejeon by Daejeon Techno Park
Completed development of energy-saving outdoor cooling fog system
Cooling Fog System Temperature Reduction, Radiant Heat Reduction, and Fine Dust Reduction Effectiveness Proven KCL Report Certificate
Proven LCC economic effectiveness and 10.7% cost reduction effect
Possession of cost report

What is a seawater desalination device?

Seawater desalination

It is an environmentally friendly water treatment device that desalinates and utilizes seawater and salt sewage from island areas into drinking water, domestic water, firefighting water, agricultural water, and industrial water. The 'FilterTech seawater desalination device' is capable of producing high-quality drinking water as well as domestic water, and is very convenient for transportation as it can produce drinking water/residential water in areas where it is needed. As a result of water quality analysis of 50 items for drinking water by Incheon Metropolitan City and Jeollanam-do Health and Environment Research Institute, it was judged to be very excellent.



Seawater desalination system



Agriculture



Power plant



Industrial water



Tap water

Seawater desalination system process and procedures



1

Concept Design

We design the process according to customer requirements.



2

Production Plan

We share and provide design reliability testing, equipment CEPE, and maintenance costs and service procedures.



3

Technical Review

We actively communicate with customers and conduct customized technical reviews before project execution.



4

Equipment Manufacturing

Construction was done using 3D drawings to increase production stability.



5

Equipment Installation and Construction

Minimizes waste of manpower and material resources for on-site installation of equipment through testing before shipment from the factory. Professional service personnel can be dispatched to the field to perform all-round technical work.



6

Follow-up management and maintenance

We regularly contact customers and conduct on-site visits to understand the operation status of the equipment system, prevent possible problems with the system in advance, and improve the lifespan of the equipment.

Filter Tech Seawater desalination patent certificate

Seawater desalination
Patent certificate



1 Patent No. 10-1845674



2 Patent No. 10-2005147

Domestic and overseas seawater desalination devices Certifications and Qualifications

Qualification and Honor Certificate of quality

Filter Tech is developing seawater desalination technology at home and abroad through a technology agreement with QT, a Chinese seawater desalination company.



MANAGEMENT SYSTEM CERTIFICATE

주식회사 필터테크

대천광역시 대덕구 대암북로70번길 35, 2층 (여암동)

적용 표준
KS Q ISO 9001:2015

인증 범위
물량포그시스템, 전지식 초미세 무압포그시스템, 해수담수화장치, 필터에 대한 생산

Seawater Desalination Device

위와 같이 경영시스템 표준에 적합함을 인증합니다.

인증번호: SM-2294Q
유효기간: 2022/11/11 ~ 2024/12/17
발행일자: 2022/11/25
최초 인증일자: 2018/12/18

대표이사/원장 승인 

한국표준경영원
서울시 금천구 가산디지털로 212, 1409호 (가산동, 크오름디지털위메스트린)
www.smi21.com Tel. 02-6677-9002 Fax. 02-6677-9003
KAB-OC-42



MANAGEMENT SYSTEM CERTIFICATE

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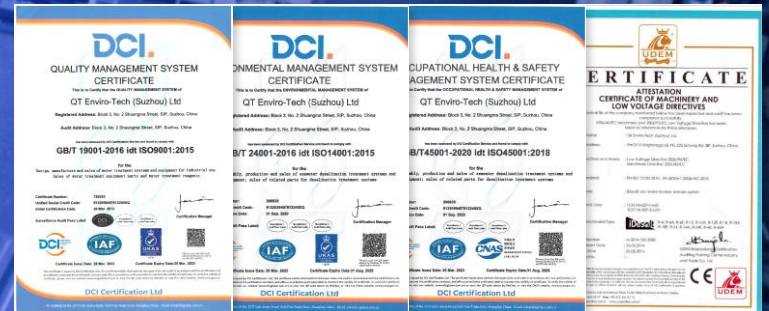
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www.smi21.com Tel. 02-6677-9002 Fax. 02-6677-9003
KAB-EC-37

Filter Tech Seawater Desalination 9001/14001 ISO Certification



Three DCI (Dutch Certification Institute) certificates for QT Enviro-Tech (Suzhou) Ltd. The certificates are for:
1. Quality Management System Certificate (GB/T 19001-2016 idt ISO 9001:2015)
2. Environmental Management System Certificate (GB/T 24001-2016 idt ISO 14001:2015)
3. Occupational Health & Safety Management System Certificate (GB/T 45001-2020 idt ISO 45001:2018)

Overseas seawater desalination quality certificate



Customer Appreciation Letter from customer company certified for quality by Seawater Desalination Supplier. The letter is in Chinese and English, praising the company's service and quality.

表彰证书 (Certificate of Appreciation) for excellent service provider (优质服务服务商) for the year 2021-2022. The certificate is awarded to 乾通环境 (苏州) 有限公司 (Qiantong Environment Suzhou Co., Ltd.) for their excellent service in the project of 大连市长海县海洋岛供水 800 吨/天海水淡化工程项目 (Dalian City Changha County Marine Island Water Supply 800 tons/day Seawater Desalination Project).

Customer Appreciation Letter Appreciation letter from customer company certified for quality by Seawater Desalination Supplier

Seawater desalination system Container type

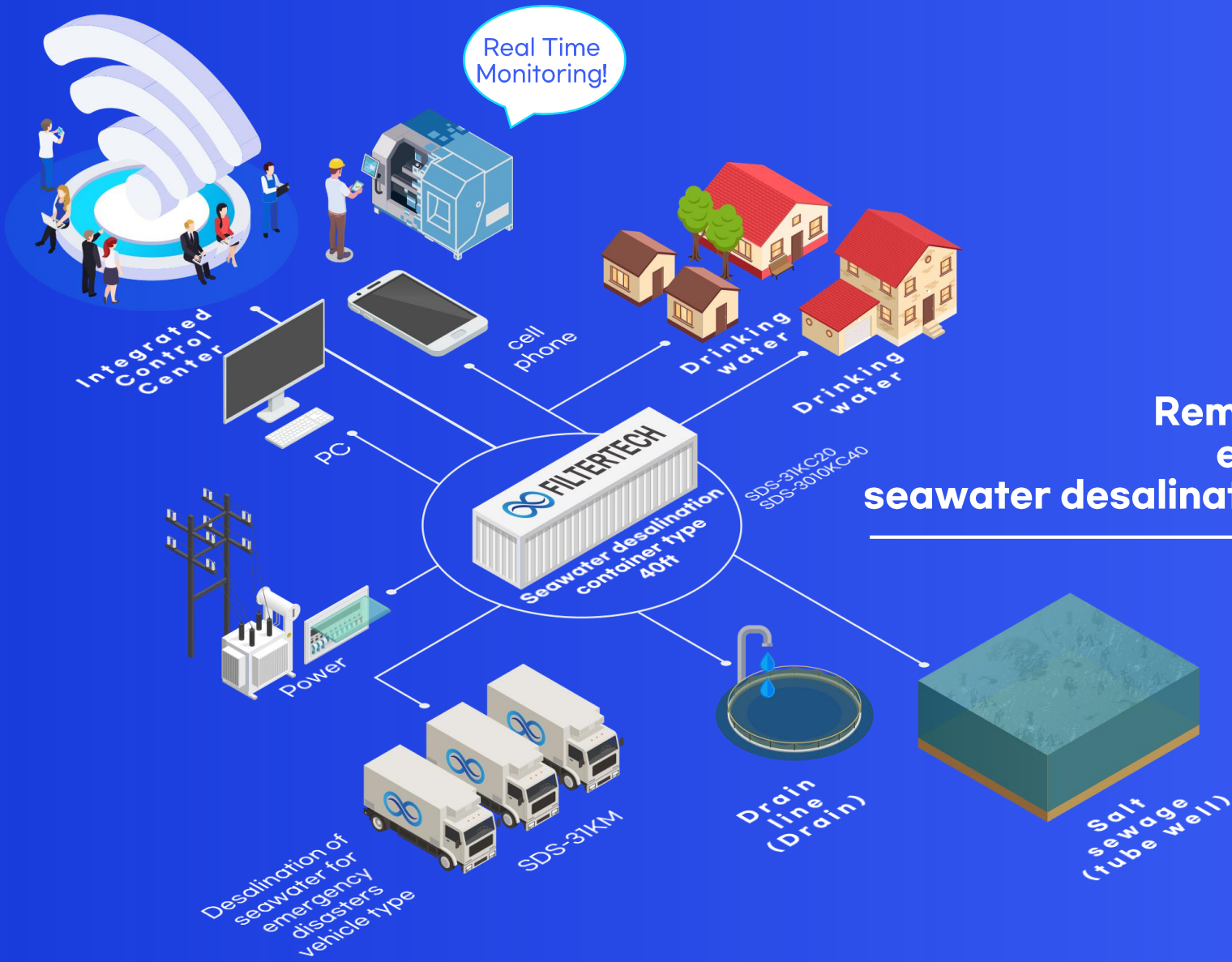
Seawater Desalination System Container Type

Seawater maximum 35,000ppm → Freshwater minimum 50ppm

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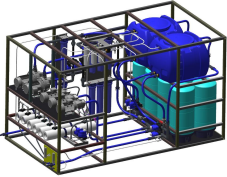
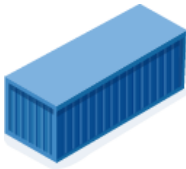
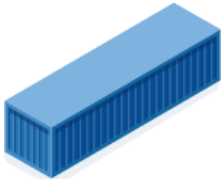


Remote control
eco-friendly
seawater desalination system

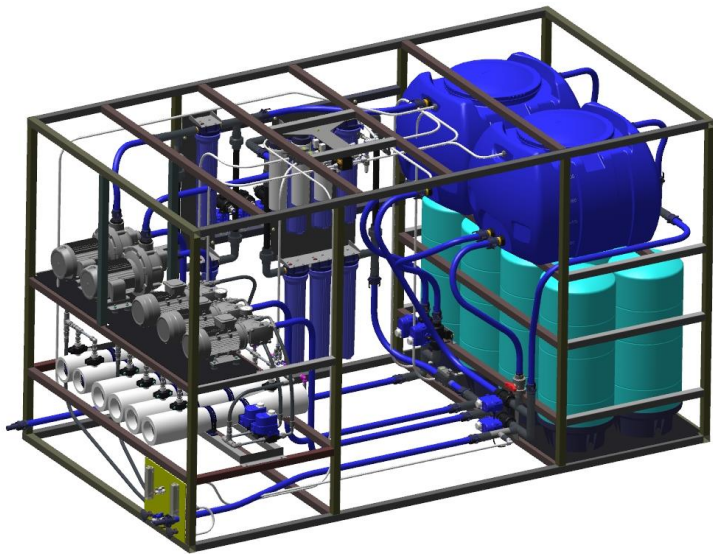
Seawater Desalination Equipment System

- ① SWRO (Sea Water-RO) for domestic water production, BWRO (Brackish Water-RO) for drinking water production
- ② Application of Filter Tech's specialized professional filter
- ③ In case of emergency, operation stability is ensured by configuring multiple pumps (2 units) and restart system is provided through remote monitoring. (2nd shift, continuous production function through alternating operation and availability of the other pump in case of pump failure, emergency remote restart function applied)
- ④ Equipped with remote restart function based on remote monitoring of driving status in emergencies (natural disasters such as lightning)
- ⑤ Efficient management and reduced maintenance costs through remote monitoring of filter life

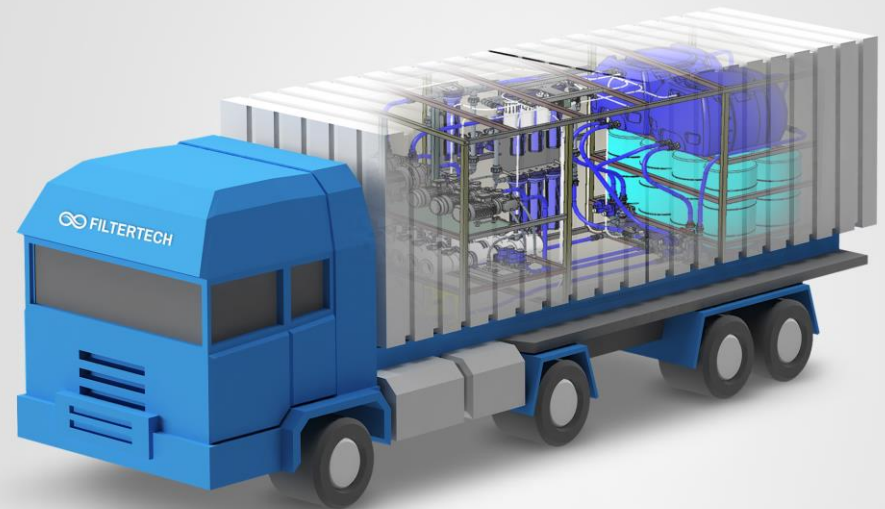
Seawater Desalination Equipment System Model List

SDS-31KM	SDS-31K	SDS-31KC20	SDS-3010KC40
 <p>Mobile seawater desalination system Emergency vehicle type</p>	 <p>installed type seawater desalination system Indoor installation type</p>	 <p>Stationary seawater desalination system Container type 20ft</p>	 <p>Stationary seawater desalination system Container type 40ft</p>
<p>4.8 tons/day of living water 2 ton/day of drinking water</p>	<p>4.8 tons/day of living water 2 ton/day of drinking water</p>	<p>10 ton/day of drinking water</p>	<p>20 ton/day of drinking water</p>
<p>It is a vehicle-type seawater desalination system optimized for emergency support in case of water outage or disaster. Local production and transportation of living water and drinking water in island areas using surface water (seawater) is possible.</p>	<p>This seawater desalination system is installed indoors above ground and produces domestic and drinking water by pumping salt sewage from island areas. Fresh water can be produced, stored, and used at all times.</p>	<p>It is a seawater desalination system that is fixed in the form of a container. It is used to produce bottled and drinking water from the ground. It is possible to produce, store and use saline groundwater from island areas. It always supplies fresh water and is economical and practical.</p>	

System composition



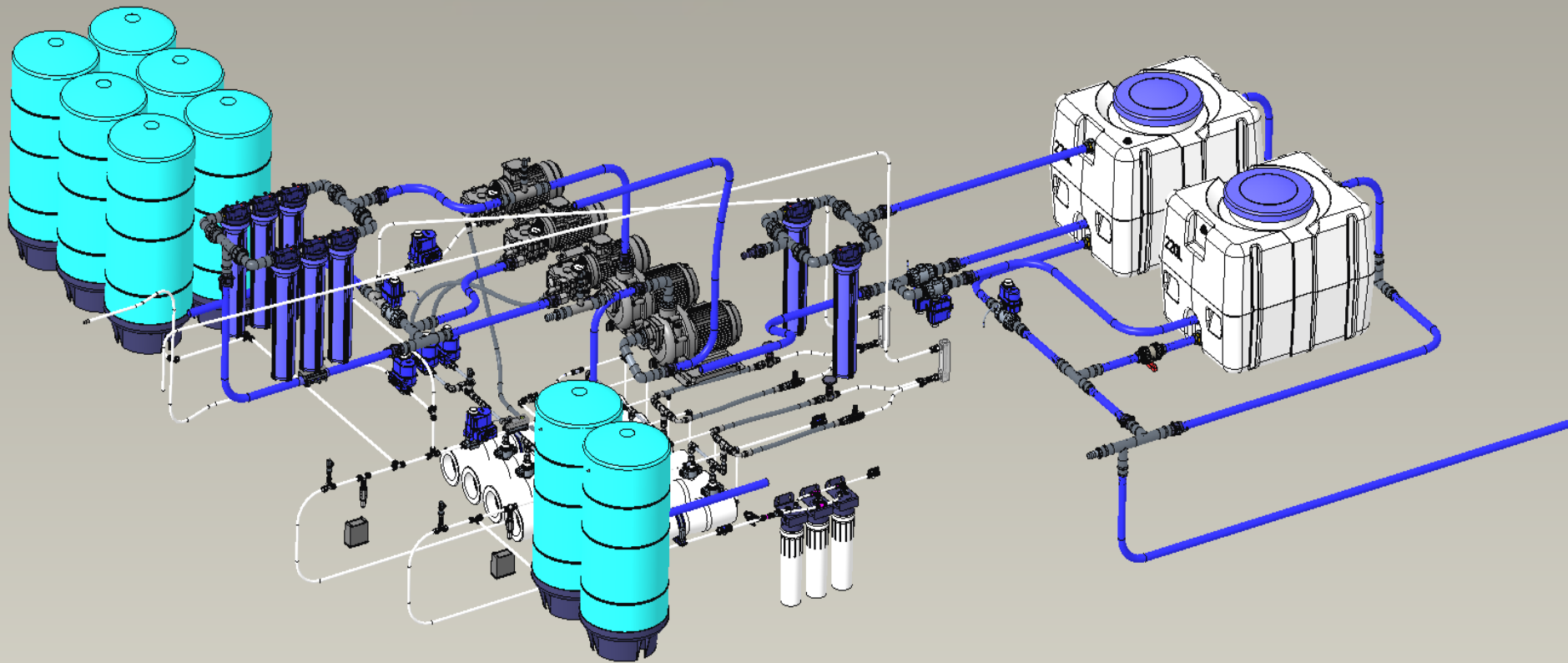
Model : SDS-31K
(Installation type)



Model : SDS-31KM
(vehicle type)

P&ID

Model : SDS-31K(Installation type), SDS-31KM(Vehicle type)



Fast , Reliabe, Cost-saving

**fastRO® Container series
containerized seawater desalination system**

 **FILTERTECH**

Brief

fastRO Container series (hereinafter “fastRO C”) seawater reverse osmosis system is a containerized desalination solution, with most parts installed into 1 or 2 containers, and freshwater production capacity of 55 to 2,016 m³/day (2,300 – 84,000 liters/hour). Multi-media filter (MMF) will be common set-up, -S version without MMF (turbidity < 1 NTU) for better feed water is available. The water intake recommendation, extra pre-treatment and post-treatment customizing, installation guide commissioning and training services could be provided by the FILTERTECH/QT upon request.



Application

- Construction site
- Island residents
- Agricultural exploitations
- Mobile water supply vehicle
- Military water supply
- Hotels and Resorts
- Oil drilling platform
- Other customized applications

Benefits

- Stability and reliability: 30 years of experience in desalination.
- Better filtration: 3 steps filtering process including multi-media filter, pre-filter and main-filter to ensure better protection for high pressure pump, energy recovery device and RO membrane.
- Quick installation and commissioning: most of the installation is completed before delivery, fast deployment.
- Long service life: well-known international brands, non-corrosive duplex for pump and high pressure piping, cpvc or other plastics for piping, and the heavy-duty marine paint is used for frame and container.
- Low energy consumption: using high-efficiency high pressure pump (based on axial piston principle), high-efficiency energy recovery device (based on isobaric pressure exchanger principle, if equipped) and low energy-consumption RO membrane.
- Easy operation: user friendly control by touch screen with remote control.
- Fast restoring feature: in case of malfunction, the whole system can be restored quickly by using standard parts.
- Customization: sensors adding/upgrading according to customer needs, collect data remotely and provide operational consulting service

Containerized vs traditional

Feature comparison table		Traditional desalination system	fastRO C
Cost	Civil Works	100%	44%
	Installation	100%	14%
	Commissioning	100%	15%
	Equipment	100%	91%
	Total	100%	77%
Time	Civil Works	100%	63%
	Installation	100%	30%
	Commissioning	100%	33%
	Total	100%	52%

Water standards

Feed water standards	
Salinity (TDS)	20,000-42,000mg/L
Temperature	5-35°C
Turbidity ¹⁾	< 20NTU
Chemical Oxygen Demand (COD)	< 10mg/L
Ferrous (Fe ²⁺)	< 0.1mg/L
Manganese (Mn ²⁺)	< 0.1mg/L
Oil and grease	< 0mg/L
Product water standards ²⁾	
Salinity (TDS)	< 500mg/L
pH	6-8
Turbidity	< 0.2NTU

Notes:

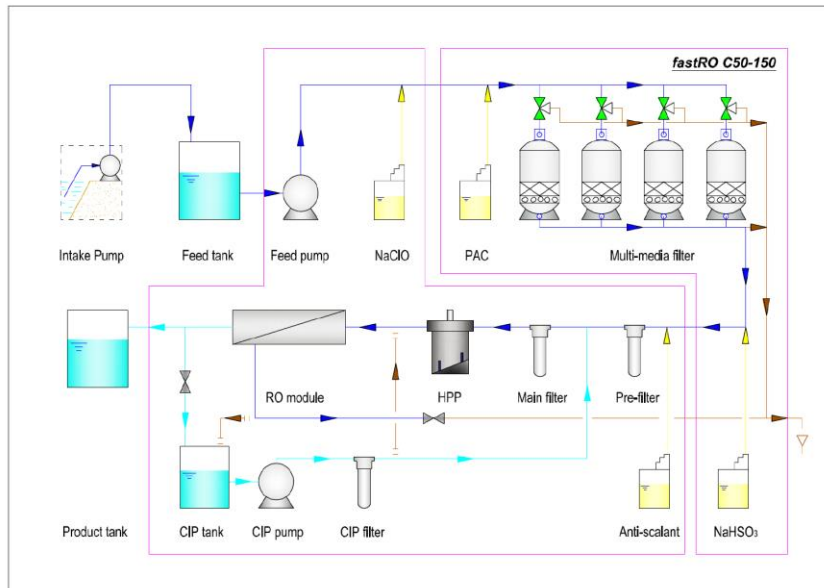
1) If feed water turbidity is higher than the above specifications, extra pretreatment might be needed.

2) If the source water is natural seawater, the produced drinking water shall meet the WHO Guidelines for Drinking Water quality, 4th edition, 2012.

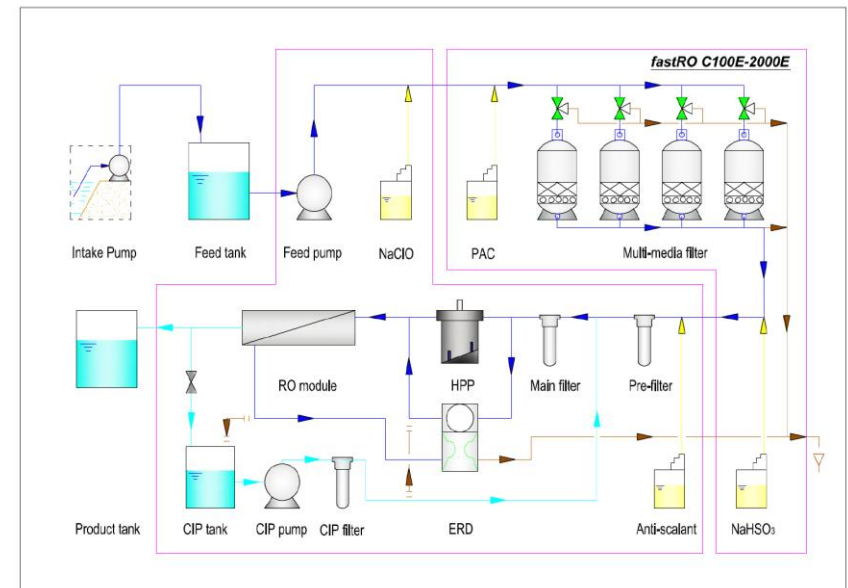
Desalination Process

The desalination process is based on Reverse Osmosis (RO) technology. The process starts by filtering particles from feed water through multi-media filter (No need to use multi-media filter if the feed water turbidity is lower than 1 NTU), then entering the high-pressure pump. Fresh water is pressurized out through the membrane, while concentrated water is discharged after pressure relief/energy recovering (by energy recovery device).

fastRO C50-150 (without energy recovery device)



fastRO C100E-2000E (with energy recovery device)

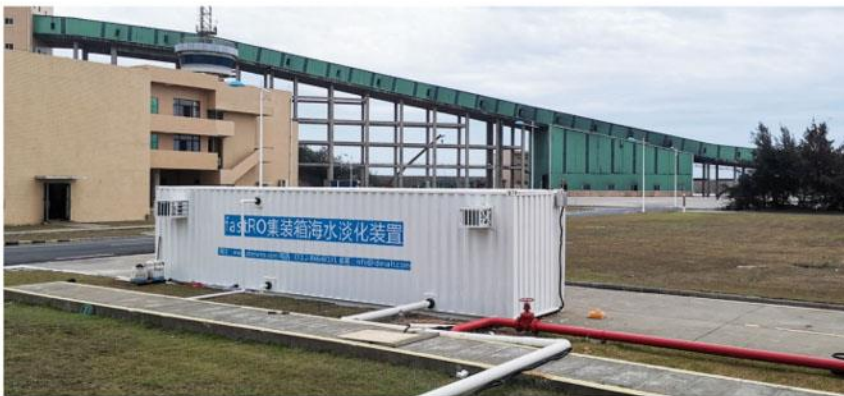




Technical specifications

fastRO C50-300E

Technical Data	Unit	C50	C80	C100	C150	C100E	C150E	C200E	C300E
Rated Product Flow 1)	m ³ /h	2.3	3.5	4.5	6.5	4.5	6.5	9.8	12.5
	L/S	0.64	0.97	1.25	1.81	1.25	1.81	2.72	3.47
Rated Recovery Rate 1)	%	35	35	35	35	35	35	45	45
Rated Feed Flow	m ³ /h	6.6	10	12.9	18.6	12.9	18.6	21.8	27.8
Min System Pressure 2)	barg	20	20	20	20	20	20	20	20
Max System Pressure 2)	barg	70	70	70	70	70	70	70	70
RO Membrane Spec.		8040	8040	8040	8040	8040	8040	8040	8040
RO Membrane Qty.	pcs	4	6	8	12	8	12	18	21
Weight (dry)	ton	4	5	5	6	5	6	10	11
Container size	ft	20	20	20	20	20	20	40	40
Type -S container size	ft	20	20	20	20	20	20	20	20
Rated Power	kW	13.4	20.1	25.6	36.1	13.0	18.1	25.5	34.1
Energy Consumption 3)	kWh/M ³	5.81	5.73	5.6	5.55	2.88	2.78	2.60	2.73
Installed Power 4)	kW	18.9	25.9	36.2	52.2	22.7	27.7	37.3	47.3
Power Input		3PH, 380 AC±10%, 50Hz							



Technical specifications

fastRO C400E-2000E

Technical Data	Unit	C400E	C500E	C800E	C1000E	C1200E	C1500E	C2000E
Rated Product Flow 1)	m ³ /h	16.7	21.5	33.5	42	52	65	84
	L/S	4.64	5.97	9.31	11.67	14.44	18.06	23.33
Rated Recovery Rate 1)	%	45	45	45	45	45	45	45
Rated Feed Flow	m ³ /h	37.1	47.8	71.1	93.3	115.6	144.4	186.7
Min System Pressure 2)	barg	20	20	20	20	20	20	20
Max System Pressure 2)	barg	70	70	70	70	70	70	70
RO Membrane Spec.		8040	8040	8040	8040	8040	8040	8040
RO Membrane Qty.	pcs	28	35	56	70	84	105	144
Weight (dry)	ton	13	13	16+8	20+8	26+9	30+10	36+10
Container size	ft	40	40	40+40	40+40	40+40	40+40	40+40
Type-S container size	ft	40	40	40	40	40	40	40
Rated Power	kW	48.0	60.3	87.3	113.6	141.8	183.1	221.8
Energy Consumption 3)	kWh/m ³	2.88	2.80	2.74	2.71	2.73	2.82	2.64
Installed Power 4)	kW	61.3	86.8	134.9	161.9	213.9	265.9	320.9
Input		3PH 380V AC±10%, 50Hz						

Notes:

- 1) The rated product flow and rated recovery rate are based on the design feed of 35,000 ppm and 20°C standard seawater. Higher product flow and higher recovery rate could be reached upon demand.
- 2) The normal operating system pressure shall be above the minimum pressure. The system could be adapted to higher pressure above 70 bar when needed.
- 3) The power consumption is based on the design feed of 35,000 ppm and 20°C standard seawater, but does not include the consumption by the intake pump, product supply pump, Heating, ventilation, and air conditioning (HAVC).
- 4) Installed power includes feed pump, high pressure pump (HPP), energy recovering device (ERD), cleaning in place (CIP) pump, dosing pump and lights.

TECHNICAL DATA SHEET

fastRO® M series marine type sea water desalination system FILTERTECH FILTERTECH

fastRO

Description

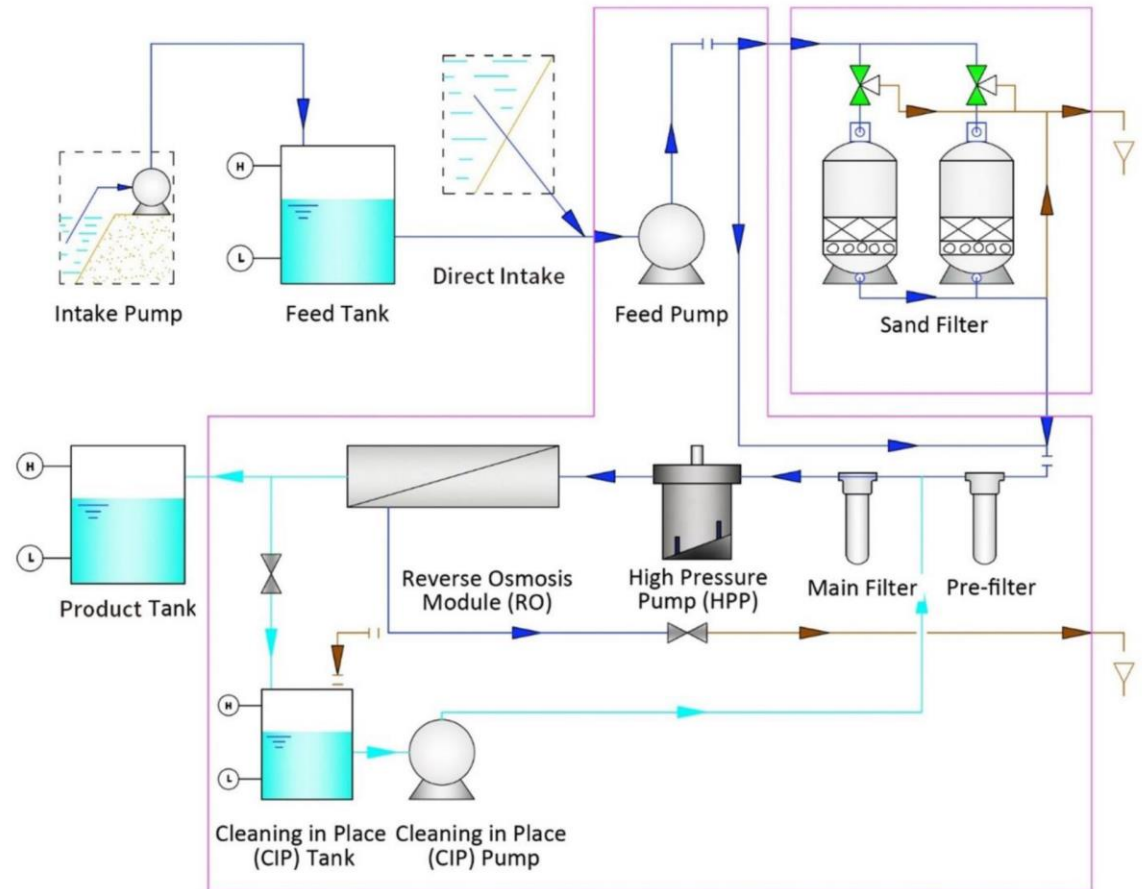
fastRO M series is a small-size modular Sea Water Reverse Osmosis (SWRO) machine. The feed pump, sand filter, pre-filter and main filter, high pressure pump and control, membrane unit are all within modular design, and the fresh water capacity is 120 to 1,100 liters (32-290 USgallon) per hour.



Desalination Process

The desalination process aims to take away salt from seawater. The Reverse Osmosis membrane process starts by filtering feed water particles through applying pressure from the feed pump to the sand filter (No need to use sand filter if the feed water turbidity is lower than 0.3 NTU), then entering the high-pressure pump, to pressurize fresh water out through the membrane, while concentrated water is discharged after pressure relief.

fastRO M System Process



Water quality standards

Feed water standards	
Salinity (TDS) ¹⁾	20,000-40,000 mg/L
Temperature	5-35 ° C
Turbidity ²⁾	< 5 NTU
Chemical Oxygen Demand (COD)	< 10 mg/L
Ferrous (Fe ²⁺)	< 0.1 mg/L
Manganese (Mn ²⁺)	< 0.1 mg/L
Oil and grease	0 mg/L
Product water standards	
Salinity (TDS) ³⁾	< 500 mg/L
pH	6-8
Turbidity	< 0.2 NTU

Notes:

- 1) If feed water salinity is out of the range, please contact us for solution.
- 2) If feed water turbidity is higher than the above specifications, extra pretreatment might be needed.
- 3) If the seawater is free of harmful contaminants such as nitrate or fluoride ion, the produced drinking water meets the WHO Guidelines for Drinking Water quality, 4th edition, 2012.





System characteristics

- Stability and reliability: We have nearly 30 years of experience in the design of desalination systems.
- Long life: Non-corrosive, non-welding duplex pipe and fittings, SS304 frame with powder coating.
- Better flexibility: The modular design that includes the feed pump, sand filter, pre-filter, main filter unit and membrane unit, there can be many placement combinations to fit the limited space inside a cabin. In addition, the sand filter unit can be omitted, which further increases the flexibility.
- Low noise & vibration level: Using high pressure hose and vibration damper.
- Simple control: One button ON/OFF design.
- Advanced cleaning options: Automatic fresh water flushing after shut down and integrated chemical cleaning system.

Extensive applications

- Yachts and Fishing boats
- Cargo ship and Freighter
- Public service vessels
- Lighthouse

Technical specifications

Technical Data	Unit	M100P	M200P	M500P	M800P	M1000P
Rated Product Flow ¹⁾	LPH	120	240	550	820	1,100
	USGPH	31.7	63.4	145.3	216.6	290.6
Rated Recovery Rate ¹⁾	%	25	31	33	33	33
Rated Feed Flow	M ³ /H	0.48	0.77	1.67	2.48	3.33
Min System Pressure ²⁾	barg	10	10	10	10	10
Max System Pressure ²⁾	barg	64	64	64	64	64
RO Membrane Spec.	inch	2,540	2,540	4,040	4,040	4,040
RO Membrane Qty.	pcs	2	4	4	6	8
Weight (dry) ³⁾	kg	95	115	200	240	280
Rated Power ⁴⁾	kW	1.5	2.1	4.0	5.7	7.6
Energy Consumption ⁴⁾	kWh/M ³	12.10	8.84	7.33	7.01	6.93
Installed Power ⁵⁾	kW	2.02	3.12	5.1	7.15	9.15
Length	m	1.3	1.3	1.6	2.6	2.6
Width	m	0.6	0.6	0.8	0.8	0.8
Height	m	0.7	0.7	1	1	1
Power Input		1phase, 220V, 50Hz		3phase, 380V, 50Hz		

Notes:

- 1) The rated product flow and rated recovery rate are based on the design feed (35,000 ppm, 20°C standard seawater), other recovery rate could be reachable, contact us for details.
- 2) The normal operating system pressure shall be higher than the minimum system pressure above. Higher maximum system pressure could be applicable upon request.
- 3) The dry weight excludes water (operating or other).
- 4) The rated power and energy consumption calculation are based on a design feed (35,000 ppm, 20°C standard seawater), the rated flow and rated recovery rate. The calculation include the power of feed pump, HPP, CIP pump, but exclude the power of intake pump and product supply pump.

Warranty

- Provided that the equipment has been running according to the FILTERTECH/QT specifications in the operational manual, FILTERTECH/QT provides 12 months guarantee from date of commissioning, and maximum of 18 months from date of production.

 FILTERTECH  QT ENVIRO-TECH
乾通环境科技

SEAWATER DESALINATION

Installation case

**Case study of overseas
seawater desalination system
installation**

Seawater desalination installation case 1

Photo of installation site

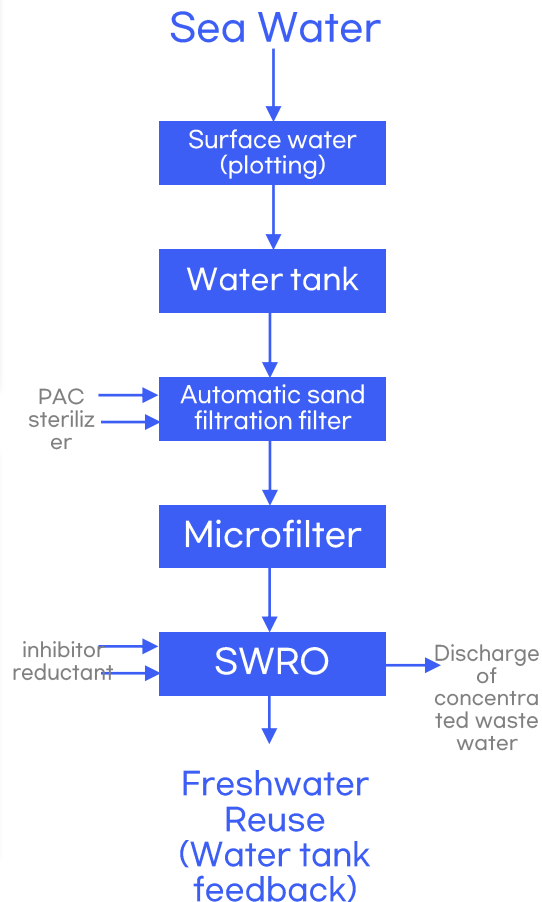


 On-site photo of Container Seawater Desalination System



 On-site photo of Container Seawater Desalination System

Process



fastRO®

- Project : Nuclear power plant 500T/D container seawater desalination
- Scale : Inlet: 1250T/D Product: 500T/D
- Location : Ningde, Fujian
- Time : 2020
- Key Tech : Standard container seawater desalination
- Parameter : In-TDS : $\approx 33\text{g/L}$, In-SS : $< 30\text{mg/L}$
SWRO-R : $> 40\%$, SWRO-P : 55bar
- **Goals : Out-TDS : $< 300\text{mg/L}$**

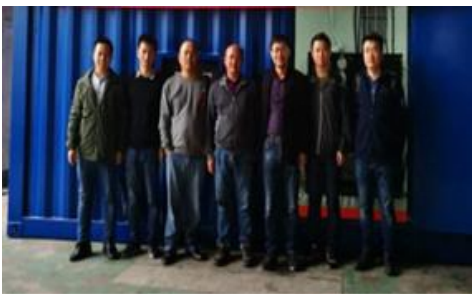
33,000ppm < 300ppm


Seawater desalination installation case 2

Photo of installation site

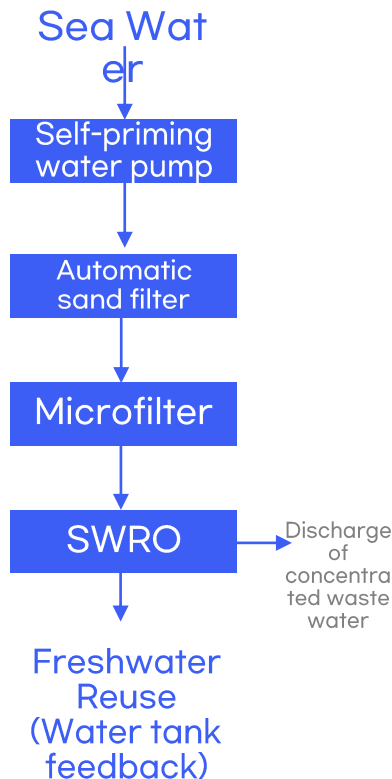


 Photo of small standard intergration seawater desalination system



 Chinese Antarctic Expedition Seawater Desalination Photo of small standard intergration seawater desalination system

Process



iDesalt

- Project : Antarctic expedition team seawater desalination for potable use
- Scale : Intake: 300T/D Product: 6T/D
- Location : Antarctica
- Time : 2017
- Key Tech : Small standard intergration seawater desalination RA-6
- Parameter : In-TDS : $\approx 30\text{g/L}$, In-SS : $< 5\text{mg/L}$, SWRO-R : $> 20\%$, SWRO-P : 45bar
- **Goals : Out-TDS : $< 250\text{mg/L}$**

30,000ppm < 250ppm

Seawater desalination installation case 3

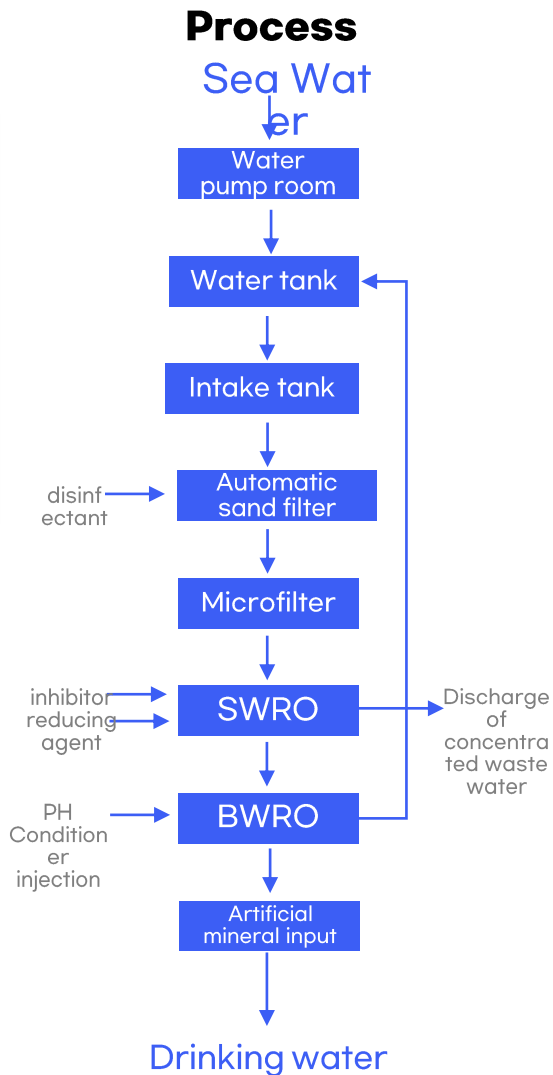
Photo of installation site



 On-site photo of Container Seawater Desalination System



 On-site photo of Container Seawater Desalination System



VIEW




- Project : In island constructing 1200T/potable water container seawater desalination
- Scale : Inlet: 2800T/D
Product:1200T/D
- Location : Zhangzi island,Dalian,Liaoning
- Time : 2022
- Key Tech : UF、SWRO、Mineralization
- Parameter : In-TDS : $\approx 32\text{g/L}$, In-SS : $< 20\text{mg/L}$
SWRO-R : $> 45\%$, SWRP-P : 50bar
BWRO-R : $> 85\%$, BWRO-P : 11bar
- **Goals : Out-TDSBWRO : $< 20\text{mg/L}$
Out-TDS mineralization : $\approx 50\text{mg/L}$**

32,000ppm about 50ppm

Seawater desalination installation case 4

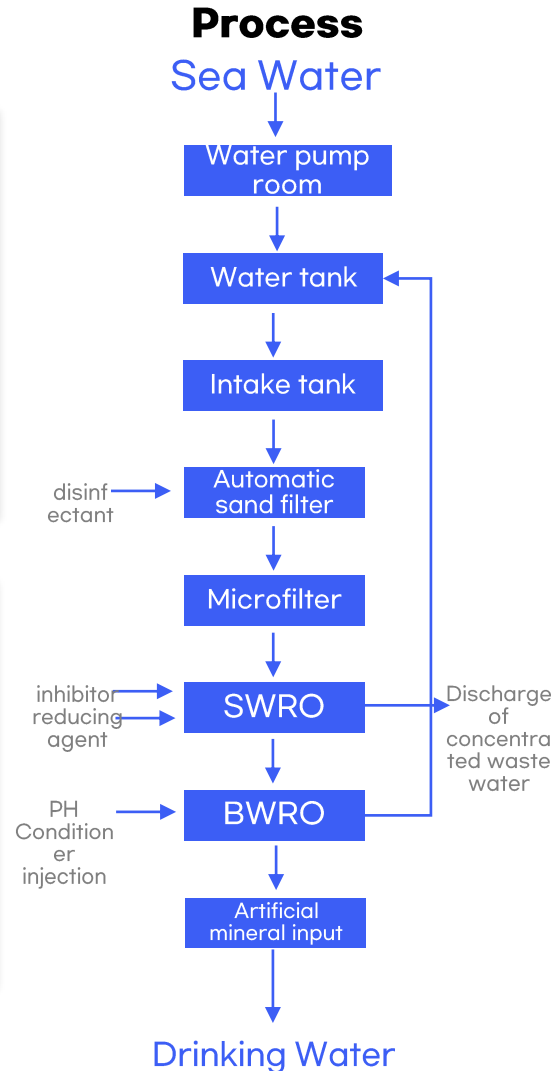
Photo of installation site



 On-site photo of Container Seawater Desalination System



 On-site photo of Container Seawater Desalination System



VIEW



- Project : Daojian 1000T/D domestic water container desalination
- Scale : Inlet: 2000T/D
Product:1000T/D
- Location : Ocean Island, Dalian City, Liaoning Province
- Time : 2022
- Key Tech : UF、SWRO、Mineralization
- Parameter : In-TDS : $\approx 32\text{g/L}$, In-SS : $< 20\text{mg/L}$
SWRO-R : $> 45\%$, SWRP-P : 50bar
BWRO-R : $> 85\%$, BWRO-P : 11bar
- **Goals : Out-TDSBWRO : $< 20\text{mg/L}$
Out-TDS mineralization : $\approx 50\text{mg/L}$**

32,000ppm about 50ppm


Seawater desalination installation case 5

Photo of installation site

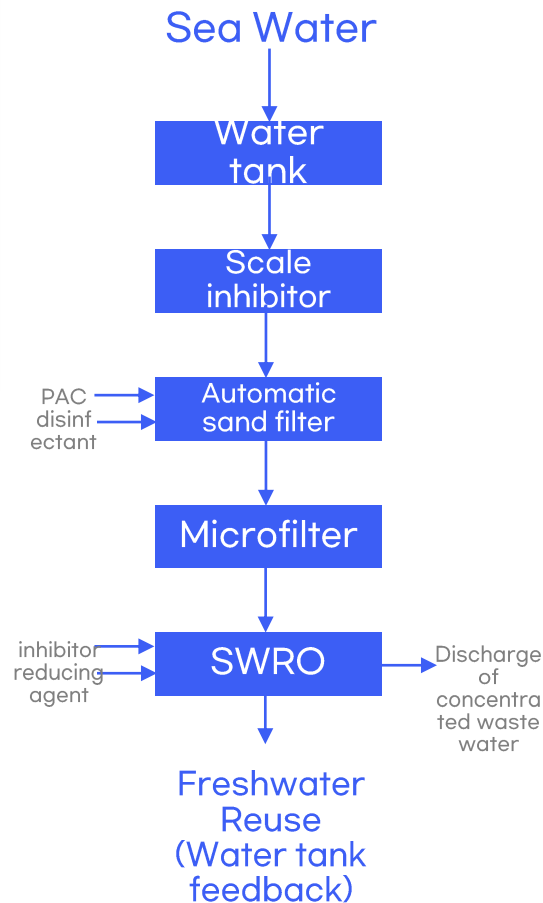


 On-site photo of Seawater Desalination System



 On-site photo of Seawater Desalination System

Process




- Project : Seawater desalination for power plant
- Scale : Inlet: 7000T/D
Product: 2*1400T/D
- Location : Kendari, Indonesia
- Time : 2018
- Key Tech : RO
- Parameter : In-TDS : $\approx 38\text{g/L}$, In-SS : $< 5\text{mg/L}$
SWRO-R : $> 45\%$, SWRP-P : 60bar
- **Goals : Out-TDS SWRO : $< 400\text{mg/L}$**

38,000ppm < 400ppm


Seawater desalination installation case 6

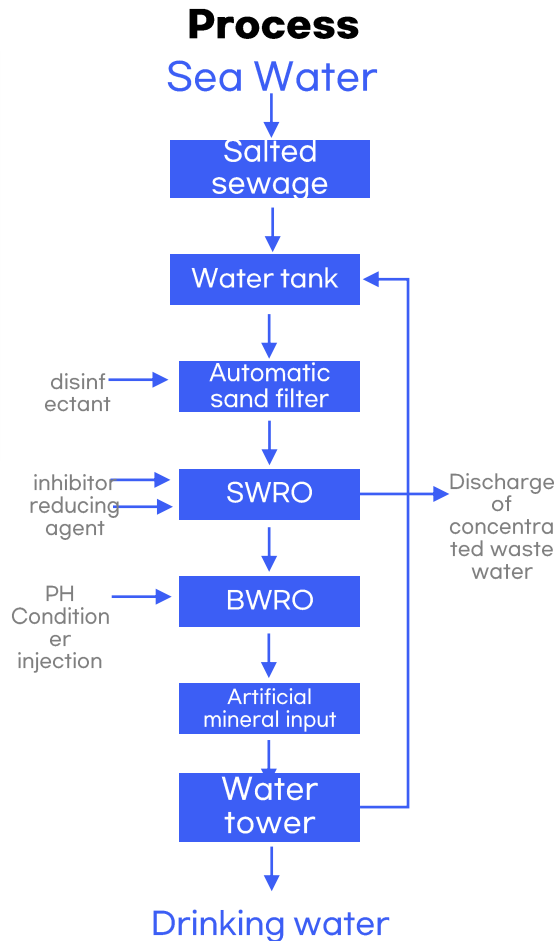
Photo of installation site



 On-site photo of Seawater Desalination System



 On-site photo of Seawater Desalination System



- Project : Seawater desalination for tap water
- Scale : Inlet: 2000T/D
Product: 2*500T/D
- Location : Mauritania
- Time : 2018
- Key Tech : SWRO、Mineralization
- Parameter : In-TDS : $\approx 40\text{g/L}$, In-SS : $< 30\text{mg/L}$
SWRO-R : $> 38\%$, SWRP-P : 55bar
BWRO-R : $> 85\%$, BWRO-P : 12bar
- **Goals : Out-TDSBWRO : $< 20\text{mg/L}$
Out-TDS mineralization : $\approx 50\text{mg/L}$**

32,000ppm about 50ppm



SEAWATER DESALINATION

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Customer Center: 1600-7871



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