XST

XST

Environment Engineering Equipment Co., Ltd.

Company Profile, We are a professional Chinese manufacturer of seawater desalination equipment with 20- years of industry experience. Our products are exported to over 30 countries across Europe, Southeast Asia and the Americas.

Europe: France, Romania, Germany, Austria, Russia, etc.

Southeast Asia & the Americas: Singapore, Indonesia, Thailand, the Philippines, Vietnam, Mexico, Peru, Argentina, etc.

Our in- house team covers engineering design, manufacturing, installation & commissioning, and after- sales service, to guarantee high- quality and safe operation for projects worldwide.

Head office

Address:A1902,Zhihui International Center,Fengcheng 10th Rd.,Xi'an,Shaanxi,China

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Factory

Address:Buliding 25, Sanyuan Science and Technology Innovation Park,Xi'an, Shaanxi,China

XST WATER TREATMENT PROFESSIONAL MANUFACTURER

Shaanxi Xinshengtai Environment Engineering Equipment Co., Ltd. Is the wholly-owned manufacturing base of Xian Xinshengtai Water Treatment Technology Co., Ltd. in Xl'AN city.

It's an environmental friendly hi-tech company that specializes in research, production, and sale of water treatment equipment .

Since 2003 established, XST has finished thousands of water treatment projects, involving chemical industry, power plant desalination water, electrodeionization ultrapure water, medical industry, aviation cleaning, food and beverage industry, municipal heating, softened circulating water, living water purification, brackish water desalination, sea water desalination, industrial wastewater treatment, reclaimed water reuse, rural area drinking water project, and etc.

The wholly-owned manufacturing factory Which located in Sanyuan Science and Technology Innovation Park of Lantian County, which occupies 4,000 square meters. We now have 150 staff, with 50% of which have senior or advanced title. And we established long term partnership with many universities and scientific research institutions in Xi'an.

Our experienced and well trained staff can provide first class one stop services from on site investigation, project design, business negotiation, installation and adjustment, to after sales service.

CERTIFICATE XST WATER TREATMENT



COMPANY EVENTS



2003: Xi'an Shengtaihuagong Science & Technology Co., Ltd. Established.
2004: become A Formal Member Of Water Quality Association In 2004.
2005: Authorized As The Sole Agent Of Csm Membrane In Northwest China By South Korea Saehan Co.,ltd-the Subsidiary Of Samsung Group.
2006: got Certificate Of ISO9001:2000
2007: mergered Xi'an Juayuan FRP Vessel Manufacturing Co.,ltd.
2008: designed By Ministry Of Commerce As The Star Enterprise That Qualified To Promote Its Technology To The Asean (association Of Southeast Asia Nations).
2008:donated Large Drinking Water Equipments To 5.12 Earthquake Area.
2010: changed Company Name To Xi'an Xingshengtai Water Treatment Technology Co., Ltd.
2012: Sign Project Investment Agreement With Xi'an-xianyang New Area And Plant To Build Xinshengtai Industrial Park, Which Will Occupies 24,000 Square Meters With Annual Value 30 Million Dollars.
2014: Move To Our 500 Square Meters New Office in Zhihui International Center.
2018: Undertook the first landfill leachate project.
2021: Undertake 200,000 tons per day Guangdong petrochemical project.
2022: Got the CE certificate.
2022: Buy and move to the 4000 square factory in Sanyuan Science and Technology Innovation Park of Lantian County.
2023: Successfully completed the desalinated water project at Tulum Airport in Mexico.
2024: Successively provided 40 sets of 1700TPD desalination plant for customer plantations in Peru

ULTRAFILTRATION SYSTEM



Ultrafiltration system (UF) is a separation technology that uses ultrafiltration membrane for physical screening, which can effectively remove suspended matter, colloids, bacteria and macromolecular organic matter in water.

Function

1. Filtration: remove suspended matter, colloids, bacteria, viruses and macromolecular organic matter.
2. Concentration: used to concentrate macromolecular substances in solution, such as proteins, polysaccharides, etc.
3. Separation: separation of substances with different molecular

Application

- Drinking water treatment: remove suspended matter and microorganisms to provide safe drinking water.
- Wastewater treatment: treat industrial and domestic wastewater for reuse or standard discharge.
- Food and beverage: used for clarification and concentration of juice, dairy products, alcohol, etc.
- Pharmaceutical industry: separation and purification of biological products such as proteins and enzymes.
- Industrial water: used for pre-treatment of reverse osmosis system to extend membrane life.
- Seawater desalination pre-treatment: remove suspended matter and colloids in seawater to protect subsequent equipment.

Standard UF system

Model	Flow (Tons/Hr)	Membrane (mm)	Recovery	Water Inlet	Water Outlet
XSTUF05	0.5	4	≥90%	DN20	DN20
XSTUF1	1	4	≥90%	DN20	DN20
XSTUF2	2	4	≥90%	DN25	DN25
XSTUF4	4	4	≥90%	DN40	DN40
XSTUF5	5	4	≥90%	DN40	DN40
XSTUF6	6	4	≥90%	DN40	DN40
XSTUF8	8	4	≥90%	DN40	DN40
XSTUF10	10	8	≥90%	DN50	DN50
XSTUF15	15	8	≥90%	DN65	DN65
XSTUF20	10	8	≥90%	DN80	DN80

Reminder: If standard machine can not match your request, we can provide customization service.

Seawater Desalination Pretreatment FILTER(SAND FILTER, CARBON FILTER AND MULTIMEDIA FILTER)



Water filter uses a variety of filter media with different particle sizes and densities (such as quartz sand, activated carbon, anthracite, manganese sand and gravel, etc.) for water treatment, which can effectively remove suspended matter, particulate matter and other impurities in the water. Common water filters include quartz sand filter, activated carbon filter, iron and manganese removal filter and multi-media filter.

Function

2. Layered filtration: use the density and particle size of different media to achieve layer-by-layer filtration and improve the filtration effect.
3. Pretreatment: commonly used for pre-filtration of water treatment systems such as reverse osmosis and ion exchange to extend the service life of subsequent equipment.
4. Improve water quality: improve water transparency and reduce turbidity through filtration.

Application

- Industrial water treatment: used for pretreatment of circulating water and boiler feed water in industries such as power, chemical, and petroleum.
- Municipal water supply: used for pretreatment of water plants to remove suspended matter in raw water.
- Sewage treatment: used for primary filtration in sewage treatment plants to remove larger particles.

Standard Plant

Model	Capacty (Tons/Hr)	Height (mm)	Diameter (mm)	Inlet	Outlet	Opening
XSTF-01	1	1400	300	DN20	DN20	2.5"
XSTF-02	2	1650	400	DN25	DN25	2.5"
XSTF-03	3	1900	600	DN25	DN25	4" -8UN
XSTF-05	5	1900	750	DN40	DN40	4" -8UN
XSTF-10	10	2200	1000	DN50	DN50	4" -8UN
XSTF-15	15	2300	1200	DN65	DN65	6" FLG
XSTF-20	20	2400	1500	DN80	DN80	6" FLG
XSTF-50	50	2400	1500	DN100	DN100	6" FLG
XSTF-60	60	2400	1500	DN125	DN125	6" FLG
XSTF-100	100	2400	1500	DN150	DN150	6" FLG

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REVERSE OSMOSIS MACHINE

Reverse Osmosis (RO) is a water purification technology that uses a semipermeable membrane to remove impurities such as dissolved salts, organic matter, and bacteria from water.



Function

1. Desalination: Effectively remove salt from water and reduce salt content.
2. Purification: Filter pollutants such as bacteria, viruses, and organic matter improve water quality.
3. Concentration: Used to concentrate specific components in a solution, commonly used in the food and chemical industries.

Application

- Industrial water: Used for boiler feed water, ultra pure water in the electronics industry, etc., to prevent equipment scaling and corrosion.
- Drinking water treatment: Provide safe drinking water for home, commercial, and industrial use.
- Desalination: Convert seawater into fresh water to solve the problem of fresh water resource shortage.
- Wastewater treatment: Treat industrial wastewater for reuse or standard discharge.
- Food and beverage: Used for concentrated juice, dairy products, etc. to improve product quality.
- Pharmaceutical industry: Produce high-purity water to meet pharmaceutical needs.

Standard RO plant:

Model	Capability (Tons/Hr)	Operation (MPa)	Feed inlet (MM)	Membrane Size(Inch)	Membrane	Recovery
XSTRO-125L	0.125	1.0-1.4	DN20	40×21	1	30%
XSTRO-250L	0.25	1.0-1.4	DN20	40×40	1	50%
XSTRO-500L	0.5	1.0-1.4	DN20	40×40	2	50%
XSTRO-750L	0.75	1.0-1.4	DN25	40×40	3	60%
XSTRO-1000L	1	1.0-1.4	DN25	40×40	4	60%
XSTRO-1500L	1.5	1.0-1.4	DN25	40×40	6	60%
XSTRO-2	2	1.0-1.4	DN25	40×40	8	60%
XSTRO-3	3	1.0-1.4	DN32	40×40	12	65%
XSTRO-6	6	1.0-1.4	DN40	80×40	6	65%
XSTRO-10	10	1.0-1.4	DN50	80×40	10	75%
XSTRO-15	15	1.0-1.4	DN50	80×40	15	75%
XSTRO-20	20	1.0-1.4	DN65	80×40	20	75%

Reminder: If standard machine can not match your request, we can provide customization service.

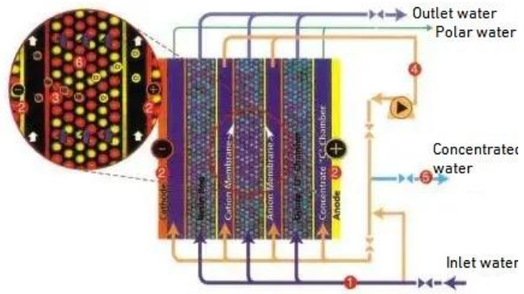
ELECTRODEIONIZATION (EDI) SYSTSEM

Electrodeionization(EDI) system is a pure water treatment technology that combines electrodialysis and ion exchange technology, mainly used to remove ionic impurities in water. EDI is a continuous deionization process combining electrodialysis(ED) and ion-exchange(IE)



Function

1. Deionization: The resistivity of produced water is as high as 18.2 MΩ·cm, producing high-purity water.
2. Continuous operation: No acid-base regeneration is required, it can operate continuously, reducing operating costs.
3. Environmental protection: No chemical regeneration agent is used, reducing waste liquid discharge, and being more environmentally friendly.



Application

- Electronic industry: Preparation of ultra pure water for semiconductors, integrated circuits, liquid crystal displays, etc.
- Power industry: Boiler feed water, thermal power plant water treatment.
- Pharmaceutical industry: Preparation of pharmaceutical water and water for injection.
- Chemical industry: Preparation of chemical raw materials and process water treatment.
- Laboratory: Provide high-purity water for laboratories for experiments and analysis.
- Food industry: Preparation of high-purity water for beverage and food processing.

Model	Flow (Tons/Hr)	Electrical resistivity (MΩ)	Recovery	Inlet Size	Outlet Size
XSTEDI025	0.25	15~18.2	90~95%	DN20	DN20
XSTEDI05	0.5	15~18.2	90~95%	DN20	DN20
XSTEDI10	1	15~18.2	90~95%	DN25	DN25
XSTEDI20	2	15~18.2	90~95%	DN25	DN25
XSTEDI30	3	15~18.2	90~95%	DN25	DN25
XSTEDI40	4	15~18.2	90~95%	DN32	DN32
XSTEDI50	5	15~18.2	90~95%	DN32	DN32
XSTEDI80	8	15~18.2	90~95%	DN40	DN40
XSTEDI100	10	15~18.2	90~95%	DN50	DN50

Reminder: If standard machine can not match your request, we can provide customization service.

WATER SOFTENER



A water softener is a device that employs ion exchange technology to remove calcium and magnesium ions from water, thereby reducing its hardness. This process transforms hard water into softer water.

Function

1. Improved Water Quality: Utilizing ion exchange resins to reduce water hardness, transforming hard water into softer water and minimizing scale formation.
2. Protection of Water-Handling Equipment: Effectively preventing scale buildup in pipes, water heaters, boilers, and other water-handling equipment, extending their service life and enhancing operational efficiency.
3. Enhanced User Experience: Softened water improves the comfort of washing and bathing experiences.

Application

- Industrial: In industries such as textiles, printing and dyeing, paper making, and chemical processing, it prevents equipment scaling, ensuring stable production and improving product quality.
- Heating and Air Conditioning Systems: In central heating and air conditioning systems, soft water prevents pipe and radiator scaling, ensuring efficient heat exchange, reducing energy consumption, extending system lifespan, and lowering maintenance costs.
- Food and Beverage Industry: Soft water can be used in food processing and beverage production to ensure product quality and taste. For instance, in beer brewing, soft water facilitates smoother wort saccharification, enhancing beer quality and stability.
- Residential Use: Suitable for kitchen and bathroom applications, protecting faucets, showers, toilets, and other water fixtures while enhancing laundry and personal hygiene experiences.

Model NO	Output Water m3/Hr	Tank Size Height ×Qty	Salt Box L x Qty	Resin(L)	Salt Consumption (KGS)	Pipe DN (inch)
XSTRT-05/F	0.5	1035x1	25x1	25	5	1"
XSTRT-1/F	1	1054x1	60x1	50	10	1"
XSTRT-2/F	2	1252x1	100x1	75	15	1"
XSTRT-3/F	3	1465x1	100x1	100	20	1"
XSTRT-6/F	5~6	2072x1	200x1	225	45	1"
XSTRT-10/F	8~10	2472x1	350x1	300	60	1.5"
XSTRT-15/F	10~13	3072x1	500x1	525	105	1.5"
XSTRT-20/F	12~20	3672x1	500x1	600	150	1.5"

Reminder: If standard machine can not match your request, we can provide customization service.

SEAWATER DESALINATION PLANT



Seawater desalination plant(SWRO) is a device that, under pressure, removes salt and other impurities from seawater through a semi-permeable membrane to produce fresh water that meets specific water quality requirements.

Function

1. Desalination: Effectively separates salt from seawater to meet the standards for domestic or industrial water use.
2. Impurity removal: It can remove impurities such as suspended solids, colloids, and microorganisms from seawater.
3. Water quality adjustment: It can adjust the pH value, hardness and other indicators of desalinated seawater.

Application

- Supply of potable water: Provide a stable source of drinking water for residents in coastal areas, islands and other regions with scarce fresh water resources.
- Industrial water use: In industries such as power generation, chemical engineering, and pharmaceuticals, which have high requirements for water quality, desalinated seawater can be used as boiler feed water and process water, reducing reliance on fresh water and lowering costs.
- Agricultural irrigation: In some coastal arid regions, desalinated seawater that has been treated is used to irrigate crops with lower salt tolerance, which has increased land utilization and crop yields.
- Water for ships and offshore platforms: providing domestic and production water for ocean-going vessels, offshore drilling platforms, etc.

Model	Capability (Tons/Hr)	Operation (MPa)	Feed inlet (MM)	Membrane Size(Inch)	Membrane	Recovery
XSTSW-250L	0.25	1.0-2.5	DN25	40×40	2	30.00%
XSTSW-500L	0.5	1.0-2.5	DN25	40×40	4	30.00%
XSTSW-1	1	1.0-2.5	DN25	40×40	6	30.00%
XSTSW-1.5	1.5	1.0-2.5	DN32	40×40	8	30.00%
XSTSW-2	2	1.0-2.5	DN32	40×40	10	40.00%
XSTSW-3	3	1.0-2.5	DN40	40×40	12	40.00%
XSTSW-5	5	1.0-2.5	DN40	80×40	12	40.00%
XSTSW-10	10	1.0-2.5	DN50	80×40	22	40.00%
XSTSW-15	15	1.0-2.5	DN50	80×40	32	40.00%
XSTSW-20	20	1.0-2.5	DN65	80×40	44	40.00%

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PRODUCT APPLICATION AREAS



Food&beverage



Irrigation



Buildings



Boilers



Electronics



Bio-pharmacy



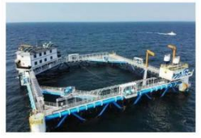
Chemicals



Cosmetics



Drinking water



Seawater desalination



Medical water



Domestic water

XST BUSINESS PARTNERS

DOW DUPONT

美国GE EDI 模块

CNP 南方泵业

格兰富 GRUNDFOS

Wave Cyber 唯赛勃

润新 RUNXIN

CREATEC 科瑞达

SIEMENS 西门子

Pentair

Danfoss 丹佛斯

MICRONIX 美国麦克尼斯EDI模块

+GF+

HYDRANAUTICS Nitto Group Company

'TORAY' Innovation by Chemistry

MORE+

SOME PICTURES OF XST PROJECTS



Industrial RO system



Industrial UF system



Brackish water desalination
in Indonesia



Sea water desalination
in Caribbean islands



Well water purification plant
for irrigation in Peru



Horticultural water desalination
plant in Kenya



Fish meal production by seawater
desalination plant in Morroco



RO+EDI with S.S Pipes for
Electronics In Romania

XST PART OF OVERSEA SALES LIST

Treatment Plant/ system	Company	Capability	QTY	Country
Seawater desalination plant by SWRO for fish meal production	ALPHA SA	480m3/d	1	Morroco
Underground water desalination system by RO for irrigation	MILEO SAC	1600m3/d	40	Peru
Brackish water desalination by UF+RO for beverage production	A+ CO	1100Tons/hr	2	Azerbaijan
River water by ultrafiltration for drinking	REMEAR CORP.	50M3/H	1	Philippines
Ground water purification by ion exchanger for living	AGRO	50Ton/hr	8	Paraguay
Industrial rubber manufaturing use Brackish water desalination system	PT. Water	50Tons/hr+10Tons/hr	2	Indonesia
Bottle water use (5Gallon) RO water treatment system	Enterprise Di	80Tons/D	1	Italy
Large ferries Sea water desalination plant for bottled water	OFW SHIPS	25Tons/Day+180Tons/D	2	France
Industrial RO water desaliantion plant	Socrate Co.	400Tons/D	1	Congo
Industrial RO water desaliantion plant for Textile water	MODERN POLY CO.	700Tons/D	2	Bangladesh
Alkaline water processing water RO plant(Double stage RO)	Water Stick CO.	50Ton/D	1	Dominica
Flower plantation water purification plant(containerized RO)	NIRP East CO.	8Tons/Hr	1	Kenya
RO water purification plant for Hotel use	Perm Poon CO.	200Tons/D	1	Thailand
UF+RO system for Laboratory water use	Medilux Co.	180Tons/D	1	India
Borehole water desalination system for Horticultural water	PLANTECH	50Tons/hr	2	Kenya
Surface water treatment system for residential use	Max Marine CO.	100Tons/D	1	Egypt

XST PART OF OVERSEA SALES LIST

Treatment Plant/ system	Company	Capability	QTY	Country
Domestic water desalination system by RO for airport use	GROUP SA DE CV	1500TPD+150TPD	2	Mexico
Caribbean island residents use water by seawater desalination plant	OLIVER CO. LTD	30Tons/D	2	Panama
Brackish water desalination plant by Pre-Filters+RO for drinking	Green Line CO.	2Tons/hr	1	Georgia
Water Filters for RO pre-treatment use	SERVICIOS CO.	480Tons/D	5	Honduras
Brackish water desalination system for drinking water of township residents	PL Novo CO.	30Tons/D+50Tons/D	18	Brazil
S.S. Water Filters for RO pre-treatment use	Clean TeQ	350Tons/D	1	Australia
Sea water desalination plant by SWRO for industrial use	S.C. Final CO.	48Tons/D	7	Romania
FRP Water Filters for RO pre-treatment use	Abejo CO.	100Tons/hr	1	Philippines
Brackish water desalination plant for Irrigation use	OTEUOV CO.	50Tons/D	2	Kazakhstan
Borehole water treatment system for industrial use	DRIPLEX CO.	500Tons/D+25Tons/D	3	Uzbekistan
RO Water filtration plant for drinking use	SIMTECH LTD.	10Tons/D+25Tons/D	11	Chile
Brackish water desalination plant by RO for drinking	GABRIELA CO.	30Tons/D	3	Peru
Plantation irrigation water by RO	RVO RI CO.	50Tons/Hr	1	Kenya
Tire water use by RO system for industrial use	IWS CO.	300Tons/D	1	Philippines
Residential residents drinking water treatment system by RO	Mamadou LTD	100Tons/D	4	Italy
RO water purification plant for commerical use	Easthill	50Tons/D	2	USA