



凯源 水处理科技

KAIYUAN WATER TREATMENT TECHNOLOGY

水净化解决方案提供商

WATER PURIFYING SOLUTION PROVIDER

水处理设备专业制造商

PROFESSIONAL WATER TREATMENT
EQUIPMENT MANUFACTURER



广州凯源水处理设备有限公司
Guangzhou Kaiyuan Water Treatment Equipment Co., Ltd

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COMPANY PROFILE 公司简介

广州凯源水处理设备有限公司成立于2008年，是中国膜协会常务理事单位，中国膜工业协会会员。通过ISO9001:2015体系认证，产品通过欧洲CE认证，直饮水涉水产品，是一家拥有十二年专业生产纯水处理设备的制造商，自成立以来一直致力于水处理产品及工艺的开发与利用，集反渗透（RO）、海水淡化；超纯水系统；制药GMP纯化水系统，纳滤（NF）、超滤（UF）、微滤（MF）、离子交换等水处理工程的设计、设备制造、安装调试、为一体进行全方位服务。

公司业务遍布全球九十多个国家，产品远销欧洲、南美洲、北美洲、非洲、中东、及亚洲各国。

Guangzhou Kai Yuan Water Treatment Equipment Co., Ltd was established in 2008. It is executive director unit of China Water Enterprises Confederation Desalination Branch and member of MIAC (China Membrane Industry Association). Our company is ISO9001:2015 certified company and our products are approved CE and SGS. We are 12 years full experience in pure water treatment equipment manufacturer. We have been engaged in water treatment product and technology development and utilization. We are specialized in manufacturing reverse osmosis(RO) system, seawater desalination system, ultrapure water system, pure water system for GMP medical and pharmaceutical, Nanofiltration system(NF), Ultrafiltration system(UF), Micron filtration system(MF), ion exchange system, EDI systems etc. We can provide water treatment project design, manufacture, installation and all-round service. Our products are sold well not only in domestic, but also in more than 90 countries all over the world. Welcome customers from all over the world to visit us.



企业资质 Enterprise Qualification



企业使命/Enterprise Mission:

把你拥有的水变成你需要的水
Input Your Owned Water; Output Your Needed Water

企业文化/Enterprise Culture:

每天进步一点点
Make a little progress everyday

什么是乌龟精神? 乌龟精神 = 勇敢 + 自信 + 拼搏 + 毅力
What is the turtle spirit? Tortoise spirit = brave + self-confidence + hard work + perseverance

价值观/Our values:

与客户共赢 与员工共赢 与供应商共赢
Build win-win relationship with client, staff and supplier

合作伙伴/Partners:



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反渗透设备

REVERSE OSMOSIS EQUIPMENT

设备概述:

反渗透水处理设备系统,是以自来水作为原水,先经过前置预处理(软化器可不选),再经过RO反渗透处理。经过一系列处理后,可去除水中的颗粒、胶体、有机杂质、重金属离子、细菌、病毒、热源等有害物质及99%的溶解盐,系统脱盐率高达97%以上使出水电阻率达到 $\leq 10 \mu\text{S/cm}$ 。排放的副产物——浓水对环境无害,是一项符合环保要求的分离技术。无需过多考虑进水水质的稳定性,反渗透系统的产水水质可在不耗用任何再生物质的前提下,长期保持稳定,这是其最重要的特性之一。

EQUIPMENT SUMMARIZE:

Reverse osmosis system is using city water as raw water, then treat water by Pre-filter (water softener is optional), reverse osmosis membrane. It can remove particle, colloid, organic impurity, heavy metal ion, bacteria, virus in water, and it can also remove 99% dissolved salt. The whole system desalination rate can reach 96%~99% to make permeated water conductivity $< 10 \mu\text{S/cm}$. Dense water also won't pollute environment. Reverse osmosis equipment no need to consider about input water quality too much. And the main features of RO equipment is no need to do any regeneration, it can keep stable for long time.



500L/H 全自动反渗透设备
500L/H automatic reverse osmosis equipment



500L/H 不锈钢反渗透设备
500L/H stainless steel reverse osmosis equipment



1000L/H 反渗透设备
1000L/H reverse osmosis equipment



1500L/H 不锈钢反渗透设备
1500L/H stainless steel reverse osmosis equipment

系统控制与性能:

- ★反渗透系统核心部件均采用进口膜组件。
- ★无水压或水压自动停机。
- ★实行自动控制,RO膜自动冲洗,降低污染速度。
- ★纯水箱缺水自动制水。
- ★低压开关保护高压泵不会因供水停止而损坏。
- ★高效率、低噪音的高压泵,降低运行噪音,减少能耗。
- ★产水电导率表连续监视产水水质。
- ★进水及排水压力表,连续监测反渗透膜的压差,提示何时需要清洗。
- ★自动停水阀以避免停机时水继续流入。



3000L/H 全不锈钢反渗透设备
3000L/H stainless steel reverse osmosis equipment



10T/H 反渗透设备
10T/H reverse osmosis equipment

SYSTEM PERFORMANCE:

- ★Main part (membrane) of reverse osmosis system is imported from USA.
- ★Auto stop when no water and full water.
- ★Auto controller, RO membrane auto flush to protect membrane.
- ★Auto start when pure water tank have no water.
- ★Low pressure protection switch to protect high pressure pump when there is no raw water.
- ★High efficient and low noise high pressure pump.
- ★Product water conductivity meter to monitor product water quality all the time.
- ★Input water and output water pressure gauge to monitor RO membrane differential pressure to remind it's time for chemical cleaning.
- ★Inlet water solenoid valve to stop water when machine is stop.

主要技术参数/main technical parameters

型号 Model	生产能力 Capacity	回收率 Recovery rate	脱盐率 Desalination rate	输出功率 Output power	膜品牌 Membrane brand
KYRO-500	500L/H	50%	97%	1.5kw	杜邦陶氏/OUPOINT
KYRO-1000	1000L/H	50%	97%	2.2kw	杜邦陶氏/OUPOINT
KYRO-2000	2000L/H	50%	97%	3.0kw	杜邦陶氏/OUPOINT
KYRO-3000	3000L/H	50%	97%	3.7kw	杜邦陶氏/OUPOINT
KYRO-4000	4000L/H	50%	97%	5.0kw	杜邦陶氏/OUPOINT
KYRO-5000	5000L/H	50%	97%	7.0kw	杜邦陶氏/OUPOINT
KYRO-6000	6000L/H	50-75%	97%	9.0kw	杜邦陶氏/OUPOINT
KYRO-8000	8000L/H	50-75%	97%	13kw	杜邦陶氏/OUPOINT
KYRO-10T	10M ³ /H	50-75%	97%	15kw	杜邦陶氏/OUPOINT
KYRO-12T	12M ³ /H	50-75%	97%	18kw	杜邦陶氏/OUPOINT
KYRO-15T	15M ³ /H	50-75%	97%	23kw	杜邦陶氏/OUPOINT



反渗透预处理作用:

预处理常由石英砂过滤装置、活性炭过滤装置、软化过滤器、保安过滤器组成。主要目的是去除原水中含有的泥沙、铁锈、胶体物质、悬浮物；色度、异味、生化有机物；降低水的余氯值及农药污染等有害的物质。如果原水中钙镁离子含量较高时，还需增加软水装置，从而延长反渗透膜的使用寿命。

FUNCTION OF PRETREATMENT FILTERS:

Pre-treatment filters always include quartz sand filter, activated carbon filter, water softener and security filter. The main purpose is to remove sludge, rust, colloid, suspended solids, color, odor, biochemical organic impurity in raw water. It also can reduce residual chlorine, pesticide and other harmful pollutants. If the hardness of raw water is high, we need add water softener to protect reverse osmosis membrane from blocking.

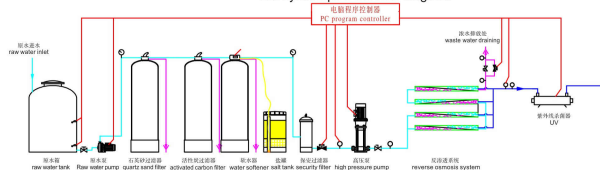
应用范围:

电力工业: 锅炉补给水
电子工业: 半导体工业超纯水、集成电路清洗用水。
食品工业: 配方用水、生产用水; 茶叶、果汁、蔬菜汁、植物等热敏性物质的提取及浓缩。
饮料工业: 配方用水、生产用水、洗涤用水
制药工业: 工艺用水、试剂用水、洗涤用水、注射用水、药物浓缩分离
化学工业: 生产用水、废水处理、有价值的物质的浓缩分离。
饮水工程: 纯水制备、饮用水净化。
石油化工: 油田注入水、石化废水深度处理。
海水淡化: 海岛地区、沿海缺水地区、船舶、海水油田等生产生活用水。

APPLICATION:

Power industry: boiler water
Electronics industry: semiconductor industry ultra pure water, integrated circuit cleaning water.
Beverage industry: formulation of water, production water, washing water.
Pharmaceutical industry: process water, reagent water, washing water, water injection, drug concentration and separation.
Chemical industry: the production of water, waste water treatment, the value of the separation of substances.
Drinking water project: the preparation of pure water, drinking water purification.
Petroleum and chemical industry: advanced treatment of oilfield injected water and petrochemical wastewater.
Drinking water desalination: Sea Island, coastal water shortage areas, ships, sea water and other production and living water.

反渗透系统工艺流程图
RO system process flow diagram



3000L/H 二级反渗透设备
3000L/H Two stage reverse osmosis equipment



1000L/H 反渗透设备
1000L/H Reverse Osmosis System

二级反渗透 TWO STAGE REVERSE OSMOSIS

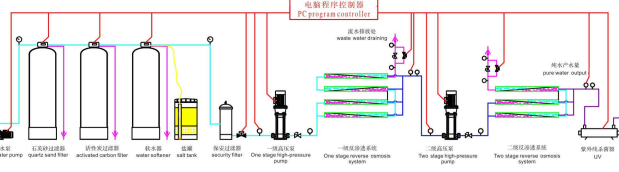
二级反渗透是采用一级反渗透出水作为原水，进行第二次的反渗透净化，将水质进一步提纯。一般出水导电率 $\leq 2 \mu \text{S/cm}$ 。

The second stage reverse osmosis system use the first stage reverse osmosis system output water as raw water to make water to be more pure. Normally output water conductivity $\leq 2 \mu \text{S/cm}$.

5000L/H 二级反渗透设备
5000L/H Two stage reverse osmosis equipment



反渗透系统工艺流程图
RO system process flow diagram



纯水设备技术标准:

1. 反渗透水处理设备国家标准 (GB/T 19249-2003)
2. JB/T 2932 水处理设备技术条件
3. 出水水质达到:《国家生活饮用水标准》、《世界卫生组织直饮水标准》、《生活饮用水水质处理器卫生安全与功能评价规范—反渗透处理装置》、《瓶装饮用纯净水卫生标准(GB17324-1998)》要求。

TECHNICAL STANDARD OF PURE WATER EQUIPMENT:

1. Reverse osmosis water treatment equipment national standard (GB/T 19249-2003).
2. JB/T 2932 water treatment equipment technical conditions.
3. Output water quality reached: "national drinking water standard", "WHO", "drinking water standard for drinking water quality safety and health function evaluation standard processor - reverse osmosis device", "bottled drinking water health standards" (GB17324-1998) requirements.



大型反渗透设备

LARGE REVERSE OSMOSIS EQUIPMENT

主要元件:

RO膜(美国杜邦陶氏)、高压泵(杭州南方特种泵)

电导仪(台湾)高低保护(韩国进口)钢材

SUS-304,系统脱盐率 $\geq 97\%$ 。

出水标准:电导率 $\leq 10\text{us/cm}$ 完全达到国家

GB17303-1998纯净水标准。

MAIN COMPONENT:

RO membrane(US DUPONT DOW), High pressure pump (Hangzhou

special pump) Conductivity meter (Taiwan) high and low

voltage protection (South Korea) Stainless steel SUS-304

Desalination rate 97%.

Standard: water conductivity is less than or equal to 10us/cm

Meet the national GB17303-1998 pure water standard



40T/H 反渗透设备
40T/H reverse osmosis equipment

主要技术参数 Main Technical Parameters

产品名称 product name	水处理设备 water treatment machine
型号 model	KYRO-40T
生产能力 capacity	40M ³ /hour
回收率 recovery rate	70%~80%
输出功率 output power	50KW
电压 voltage	220V/480V-50Hz/60Hz, Three Phase
预处理系统, 包括石英砂过滤器, 活性炭过滤器, 阻垢剂加药系统 pre-treatment system, including quartz sand filter, activated carbon filter, anti-scale dosing system	
总尺寸 total measure	13000x2000x2250mm
总重量 total weight	12000KG
给水泵: SS304 Booster Pump material: SS304	Power: 11.5KW
Optional (供选)	
1. Chemical dosing System for PH adjustment anti-scale, etc. (PH值调整、防垢等加药系统)	
2. UVsterilizer (紫外线杀菌灯)	
3. Ozone generator (臭氧发生器)	
4. PLC TOUCH SCREEN (PLC触摸屏)	



20T/H 反渗透设备
20T/H reverse osmosis equipment



20T/H 柜式反渗透设备
20T/H containerized reverse osmosis equipment

主要技术参数 Main Technical Parameters

产品名称 product name	水处理设备 water treatment machine
型号 model	KYRO-20T
生产能力 capacity	20M ³ /hour
回收率 recovery rate	65%~80%
输出功率 output power	35KW
电压 voltage	220V/380V-50Hz/60Hz, Three Phase
预处理系统, 包括石英砂过滤器, 活性炭过滤器, 阻垢剂加药系统 pre-treatment system, including quartz sand filter, activated carbon filter, anti-scale dosing system	
总尺寸 total measure	11000x1800x2600mm
总重量 total weight	9000KG
给水泵: SS304 Booster Pump material: SS304	Power: 7.5KW



苦咸水设备

BRACKISH WATER EQUIPMENT



50T/H 苦咸水设备
50T/H brackish water treatment system

各种水的TDS含量对比及用途/Different water TDS compare and usage

用途/Usage	水源/Raw water	瓶装水、袋装水 Bottle water, Bag water	自来水 City water	苦咸水 Brackish water	亚海水及海水 Sea water
TDS含量/TDS range		2-10ppm	100-1000ppm	2000-20000ppm	20000-40000ppm
直接饮用/Drinking		Yes	Yes/No	No	No
做饭、生活用水、洗衣服 Cooking, human consumption, washing		Yes	Yes	No	No
灌溉、工业生产、动物饮用 Irrigation, industry, animal drinking		Yes	Yes	No	No



5000L/H 苦咸水反渗透设备
5000L/H brackish water reverse osmosis equipment



2000L/H 苦咸水设备(TDS20000PPM)
2000L/H brackish water treatment system

设备概述:

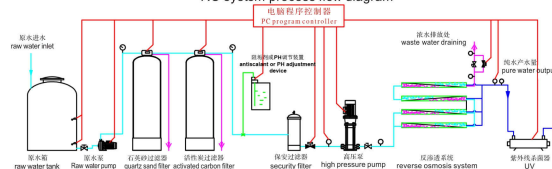
- 1、苦咸水设备适用于高盐碱地区的地下水和近海地区海水的水源（指原水溶解性总固体TDS2000-20000PPM）。
- 2、设备采用美国进口的反渗透膜元件，国产优质的压力容器，SUS316L的增压泵及管道，配合合理的预处理设备，能有效去除水中97%以上的无机盐、重金属离子、有机物、细菌及病菌等有害成分，将苦咸水淡化为符合人类生活饮用水标准的优质水。
- 3、根据客户当地的水质进行细致的分析和特殊设计，力求做到高效、耐用，并使淡化水质完全达到 WHO 饮用水水质标准，彻底解决缺水地区的饮用水问题。
- 4、由于各地地下水质的不同，用户最好能够提供当地详细的水质分析报告，以确保设计出最合理、经济的配置，达到最佳的出水效果。

Brife introduction:

1. Brackish water system is suitable for underground water in high-salinity areas and seawater in offshore areas (total dissolved solids of raw water 2000-20000PPM)
2. Our RO water system adopt the USA DOW membrane and China high quality membrane housing, SUS316L pressure pump, SUS316 pipe and with suitable pretreatment. Our RO machine can remove more than 97% inorganic salt, heavy metal ion, organic matter, harmful bacteria etc. It can make the brackish water to be drinkable water which suitable for human consumption.
3. We can make the special and suitable brackish water system according to customers input water quality. To make the machine high efficient, long life span, and output water quality from our machine can reach to the WHO drinking water standard. The brackish water system can solve water problem where the areas lack of water.
4. As different place with different water quality, it is better that customers provide us the local water quality report so that we can give you the most suitable, economic and high efficient machine.

反渗透系统工艺流程图

RO system process flow diagram



主要技术参数/main technical parameters

型号 Model	生产能力 Capacity	回收率 Recovery rate	脱盐率 Desalination rate	输出功率 Output power	TDS范围 TDS range
KYRO-500	500L/H	40%	97-98%	2.2-3.0KW	2000-15000ppm
KYRO-1000	1000L/H	40%	97-98%	3.0-4.0KW	2000-15000ppm
KYRO-2000	2000L/H	40-50%	97-98%	4.0-5.5KW	2000-15000ppm
KYRO-10T	10M ³ /H	50-70%	97-98%	12.0-25.0KW	2000-15000ppm



海水淡化设备

SEAWATER DESALINATION EQUIPMENT

概述:

水既是世界上一切生命不可缺少的物质, 又是不可替代的重要自然资源。近年来世界上许多国家和地区相继出现水资源危机, 为此世界各国都积极着手研究海水淡化等问题。反渗透RO技术因具备工程稳定可靠与造水成本低廉等优势而成为主要的海水淡化技术, 并得到广泛的应用。

INTRODUCTION:

Water is not only an indispensable substance for all life in the world, but also an important natural resource that cannot be replaced. In recent years, many countries and regions in the world arise water resources crises. For this reason, countries all over the world are actively studying seawater desalination problems. Reverse osmosis RO technology has become the main seawater desalination technology because of its stable and reliable engineering and low cost, and has been widely used.



大型海水淡化设备
Large desalination equipment



2000升/天海水淡化设备
2000L/day desalination equipment

海水的主要水质特点:

1. 含盐量高, 一般在35g/l左右
2. 腐蚀性大
3. 海水中动植物多
4. 海水中各种离子组成比例比较稳定
5. PH变化小, 海水表层PH在8.1-8.3, 而深层PH则为7.8左右

Main features of seawater quality:

1. High salinity, generally about 35g/l
2. Corrosive
3. Lots of animals and plants in seawater
4. The composition of various ions in seawater is relatively stable
5. PH value changes little, the PH value of surface seawater is between 8.1 and 8.3, deep seawater is about 7.8

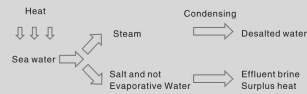
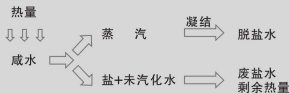
海水的淡化处理可以通过如下工艺进行:

膜分离淡化、膜分离法有两种工艺:

1. 反渗透法: 渗透是一种自然现象。浓度较低的溶液中的水分会通过半透膜的薄膜进入浓度较高的溶液中, 直到达到平衡; 反渗透是用足够的压力使溶液中的溶剂 (一般常指水) 通过反渗透膜 (一种半透膜) 而分离出来, 方向与渗透方向相反。
2. 电渗析法 (EDR): 电渗析法是利用电流的特性吸引溶解的离子。当电流引入盐溶液时盐离子倾向于吸附在极性相反的电极上。电渗析法专门用于滩涂水的淡化。热处理工艺是模拟自然循环, 将水加热到产生蒸汽, 然后再通过冷凝, 成为产品水 (脱盐水)。

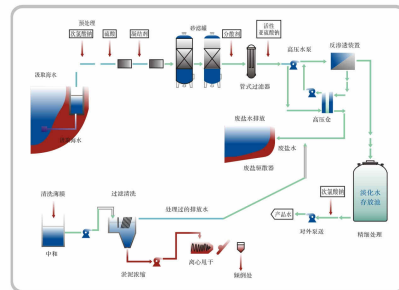
The desalination of seawater can be carried out by the following process:

- (1) Reverse Osmosis: Osmosis is a natural phenomenon. The water in the lower concentration solution enters the higher concentration solution through the semi-permeable membrane until equilibrium is reached. Reverse osmosis is to use sufficient pressure to make the solvent (usually it is water) in the solution pass through the reverse osmosis membrane (A semi-permeable membrane), thus solvent and solute is separated, the direction is opposite to the permeation direction.
- (2) Electrodialysis: Electrodialysis uses the characteristics of current to attract dissolved ions. When electric current is introduced into the salt solution, the salt ions tend to be adsorbed on the electrodes of opposite polarity. Electrodialysis is specially used for desalination of beach water. The heat treatment process simulates natural circulation, heating water to produce steam, and then condensing it to become product water (desalinated water).



一座反渗透设施基本分以下几个阶段:

- A. 海水采集 --- B. 预处理 --- C. 高压和能源回收系统 --- D. 反渗透 --- E. 淡化水后期处理 --- F. 浓盐水倾倒
- Reverse osmosis facility is basically divided into the following stages:
- A. Seawater acquisition
 - B. Pre-treatment
 - C. High pressure and energy recovery systems
 - D. Reverse osmosis
 - E. desalination water post-treatment
 - F. Concentrated brine dumping



高纯水--EDI设备

ULTRAPURE WATER --EDI EQUIPMENT

设备概述:

EDI又称电除盐,是20世纪开始逐渐发展起来的新型超纯水制备技术,是纯水生产技术上的一次革命性的进步。该技术巧妙地将电渗析技术和离子交换技术相结合,通过阴、阳离子交换膜对阴、阳离子的选择性透过作用与离子交换树脂对离子的交换作用,在直流电场的作用下实现离子的定向迁移,从而完成水的深度除盐,同时水作用产生的氢离子和氢氧根离子向离子交换树脂进行再生。因此不需酸碱化氢离子而能连续制取超纯水。



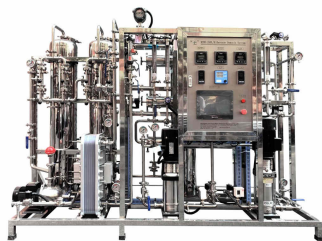
Brife introduction:

EDI, also known as electric desalination. It is a new ultra pure water technology which gradually developed in the 20th century. EDI equipment combined electro dialysis technology and ion exchange technology. It is using the selectivity penetrate function of anion and cation membrane and exchange function of ion exchange resin, under direct current electric field to make ion directed migration. Finally to make deep desalination of water. In the same time, hydrogen ion and hydroxide ion which produced when water ionize will regenerate ion exchange resin. So if use EDI equipment, no need acid and alkali chemical to do any regeneration, and it can produce ultra pure water continuously.



EDI技术优点:

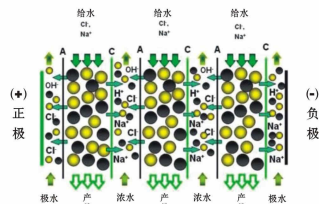
- 1.出水水质具有最佳的稳定度。
- 2.能连续生产出符合用户要求的超纯水。
- 3.模块化生产,可实现自动化控制。
- 4.不需要酸碱再生,无污染排放。
- 5.不会因再生而停机。
- 6.无需再生设备和化学药品储运。
- 7.设备结构紧凑,占地面积小。
- 8.运行成本和维修成本低。
- 9.运行操作简单,劳动强度低。



250L/H热消毒型医用级超纯水设备
250L/H Heat disinfection type Pharmaceutical
grade ultrapure water treatment system

Advantages of EDI Technology:

1. Best stability of water quality.
2. Constantly produce ultrapure water as per user requirements.
3. Modular production, can achieve automatic control
4. No need acid and alkali regeneration, no pollution emissions.
5. No need stop because of regeneration.
6. No need regeneration equipment and chemical storage.
7. Compact equipment, small size.
8. Low operation and maintenance cost.
9. Simple operation and low labor strength.



1000L/H 全不锈钢超纯水设备
1000L/H All stainless steel ultra pure water equipment



抛光混床设备

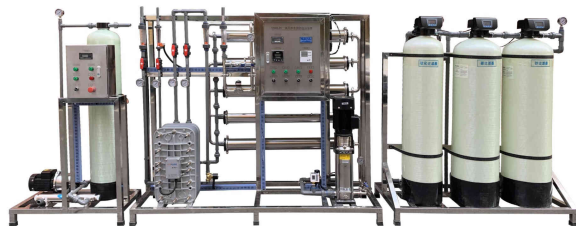
Polishing mixed bed Equipment

产品简介:

抛光混床又称一次性混床一般情况用在水处理工艺末端,用来更进一步提高产水水质。抛光混床的树脂是不能再生重复使用的。所谓抛光的意思就是树脂的表面处理情况。人们常说的抛光树脂一般用于超纯水处理系统末端,来保证系统出水水质能够维持用水标准。一般出水水质都能达到 $18\text{m}\Omega\cdot\text{cm}^2$ 以上,对于高要求的产水水质和稳定性,采用进口抛光树脂(陶氏DOW),对TOC、 SiO_2 都有一定的控制能力。抛光树脂出厂的离子型态都是H、OH型,装填后及可使用无需再生。

Product introduction:

Polishing mixed bed, also known as disposable mixed bed, is generally used at the end of water treatment process to further improve water quality. The resin of polishing mixed bed can not be recycled. The so-called polishing means the surface treatment of resin. Polishing resin is often used at the end of ultra pure water treatment system to ensure that the effluent quality can maintain the water standard. Generally, the effluent quality can reach more than $18\text{m}\Omega\cdot\text{cm}^2$. For the high requirement of water quality and stability, the imported polishing resin (Dow) is used, which has certain control ability for TOC and SiO_2 . The ion type of polishing resin is h and oh type, which can be used after loading without regeneration.



1000L/H超纯水设备 (RO+EDI+抛光混床装置)
1000L/h Ultrapure water Equipment(RO+EDI+ polishing mixed bed device)

应用领域:

1. 电子行业: 半导体芯片、机器屏幕、超声波清洗、光学半导体清洗等用水;
2. 医药行业: 实验室试剂、注射液、检验科、口腔科;
3. 工业行业: 化妆品行业、电镀行业、珠宝行业、玻璃生产;
4. 汽车行业: 车用尿素液、汽车零配件生产、涂装镀膜;

Application fields:

1. Electronic industry: water for semiconductor chip, machine screen, ultrasonic cleaning, optical semiconductor cleaning, etc;
2. Medical industry: laboratory reagent, injection, laboratory, Stomatology;
3. Industrial industries: cosmetics industry, electroplating industry, jewelry industry, glass production;
4. Automobile industry: Automobile urea liquid, automobile parts production, coating and coating;



软化水设备

Water softener

设备原理:

软水器也叫钠离子交换器,采用阳树脂对源水进行软化,主要目的是让阳树脂吸附水中的钙、镁离子(形成水垢的主要成分),降低源水的硬度,并可以进行智能化树脂再生,循环使用。

Principle of equipment:

Water softener (demineralizer) is also called sodium ion exchanger. Adopt cation resin to soften water, cation resin will absorb Ca^{2+} , Mg^{2+} (main elements for composing scale), reduce hardness of raw water, system can make resin intelligently regenerate, recycling





除铁除锰设备（地下水设备）

IRON AND MANGANESE REMOVAL EQUIPMENT

工作原理:

当含铁、锰的地下水经过曝气处理,水中的铁、锰离子开始氧化,铁以 Fe^{2+} 的状态,锰以 Mn^{2+} 存在于地下(井水)水中,而锰砂中的 MnO_2 可以催化氧化 Fe^{2+} 、 Mn^{2+} ,生成难溶性的三价铁和四价锰,再利用锰砂过滤器的反冲功能达到去除净化的目的。当水经过锰砂层时就可以将水中的铁、锰离子除去。除铁除锰过滤是一种最传统的净化法,常用于纯水系统的预处理和工业及民用给水系统,可使用不同的过滤介质,达到去除水中胶体、颗粒、悬浮物、余氯、色度、异味及铁锰的效果。

Working principle:

Underground water with iron and manganese after treating by aeration, iron and manganese ions in the water starts to be oxidized, iron (Fe^{2+}), manganese (Mn^{2+}) exists in the underground water (well water). MnO_2 in the manganese sand can catalyze the oxidation of Fe^{2+} , Mn^{2+} , to generate insoluble trivalent iron and tetravalent manganese, then use the back washing function of the manganese sand filter to get rid of iron and manganese and make the source water purified. Iron and manganese removal filtration is the most traditional method of purification, is often used as pretreatment system of pure water system, industry and domestic water supply, many filtering medium can be used, reach the efficiency of removing colloid, particles, suspend matters, residual chlorine, odor, color and iron manganese.

特点:

节水: 本设备出水可直接供给管网,不需另设二级供水系统,本设备具有反冲洗功能,不需另设反冲洗水泵。

节水: 本设备采用“梅花式布水器”,缩短滤层与布水管的距离,可节省大量反冲洗用水。

节省投资与占地: 本设备不需另设清水池。

节省滤料: 本设备布水均匀,滤料无死角,不板结,延长滤料使用寿命。在设备内部设置一个强氧化室,可增加气水的饱和度,加速氧化速度,对原水铁锰的含量大小具有较强的适用性。

Characteristic:

Power saving: the water can be supplied to the pipe network directly, no need to set up second stage water supply system, the equipment has backwash function, and no need to set up backwashing pump.

Water saving: This equipment adopts "plum blossom water distributor", which can shorten the distance between filter layer and water distribution pipe, and can save a lot of backwash water.

Save investment and floor space: the equipment is no need to set up clear water tank.

Save the filter material: This equipment water distribution is balance, the filter material does not have the dead angle, does not harden, prolongs the filter material service life. A strong oxidation chamber sets up inside the equipment, which can increase the saturation of air and water, speed up the oxidation, and have stronger applicability to the content of iron and manganese in raw water.



除铁除锰过滤器
Iron and manganese removal filter



除铁除锰过滤器
Iron and manganese removal filter



处理水源图
Treating source water



中水回用设备 RECLAIMED WATER REUSE EQUIPMENT

概述:

中水处理回用是节水治污的有效双赢办法。应用在生活小区、建筑小区、宾馆、疗养院、综合楼等生活污水及部分工业污水。处理后,中水可用于冲刷厕所、汽车、路途绿化、浇灌绿地及补偿锅炉用水。中水主要指城市污水或生活污水处理后达到一定的水质标准,可在一定范围内重复使用的非饮用水。其水质介于上水与下水之间,中水回用则是将城市污水进行处理后作为再生资源回用。城市污水由于水量稳定,基建投资经济,许多国家都将中水回用作为解决缺水问题的优选方案。因此,开展中水回用工作,显示出了开源和减少污染的双重功效。

Overview:

Reclaimed water treatment reuse is an effective way for water saving and pollution controlling, which usually applies to the living buildings, construction buildings, hotels, sanatorium, integrated buildings and so on. Normally, treated water can be used to flush toilet, wash car, make road green, irrigate and supply boiler water. Recycled water means that, after treatment, sewage water can achieve the water quality which can be non-potable water and reused in some fields. This kind of water is between good quality and sewage water. Our reclaimed water reuse equipment is to take city sewage water as raw water and make it into recyclable resource. Due to the stability of urban sewage, favorable infrastructure investment, ore and more countries are using reclaimed water system as optimum to solve the problem of water shortage. Therefore, to carry out the work of water reuse shows a dual effect of resource opening and pollution reduction.

中水因用途不同有两种处理方式:

- 1.一种是将其处理到市政自来水或工艺用水要求的水质,直接回用到日常生活中或生产中去,即实现水资源直接循环利用,此种处理方式适用于水资源极度缺乏的地区。
- 2.另一种是将其处理到非饮用水的标准,主要用于不与人体直接接触的用户,如便器的冲洗,地面、汽车清洗,绿化浇灌,消防,工业普通用水等,这是通常的中水处理方式。

Two Methods of Treating Ways According to Different Treated Water Application:

1. Making the quality of treated water reach the standard of government tap water or industrial water, and the treated water can be used in daily life and industrial production. This method is used in some area where lack water extremely.
2. This treated way is making the quality of water reach to standard of non-potable water. The treated water can be used in some areas which don't contact person's body, such as: rushing urine; cleaning floor; cleaning cars; water station; fire protection and so on. This is the normal method of treating reclaimed water.



处理过程:

中水系统的水净化过程也很简单,一般有三级。一级阶段,主要是靠格栅将水中体积较大的杂质与水分离。由于生活中,用水量时高时低,所以需要专备个蓄水池调节水量。水中的污染物90%以上是通过二级处理去除的。主要有生物处理法、物理化学法和膜法。所有的处理方式都不需要专门投入人力、物力。

Treating process:

The process of this system is simple, generally with 3 stages. The first stage, mainly using the grid to separate large impurities from source water, it is necessary to prepare a reservoir for water adjustment for the big differential water consumption of city water. More than 90% pollutants from source water will be removed by the second stage, mainly including biological treatment, physical & chemical methods and membrane bio-reactor. These treatment methods do not need special workforce and other resources.

技术特点:

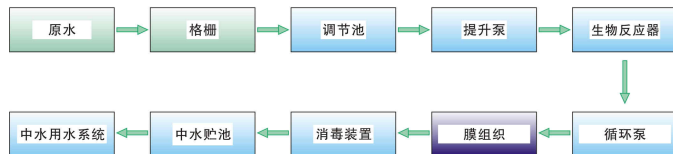
膜生物处理技术应用于废水再生利用方面,具有以下几个特点:

- (1) 能高效的进行固液分离,将废水中的悬浮物质、胶体物质、生物单元流失的微生物菌体与已净化的水分离。分离工艺简单,占地面积小,出水水质好,一般不须经三级处理即可回用。
- (2) 可使生物处理单元内生物量维持在高浓度,使容积负荷大大提高,同时膜分离的高效率,使处理单元水力停留时间大大的缩短,生物反应器的占地面积相应减少。
- (3) 由于可防止各种微生物菌群的流失,有利于生长速度缓慢的细菌(硝化细菌等)的生长,从而使系统中各种代谢过程顺利进行。

Technical Characteristics:

Membrane biological treatment technology used in waste water recycling, has the following characteristics:

- (1) Can be efficient for solid-liquid separation, remove the suspended solids, colloidal substances, biological units of the loss of microbial flora from purified water. Separation process is simple, small occupy area, good output water quality, Can be reused before the third stage treatment.
- (2) Can keep high biomass concentration, so that the volume load will be greatly improved. Meanwhile the high efficiency of membrane separation can shorten the treatment time, thus narrowing the bio-reactor covering volume.
- (3) Can prevent the loss of various microbial flora, it is beneficial to the growth of bacteria (nitrogen-fixing bacteria, etc.) which are slow to grow, so that the various metabolic processes in the system can proceed smoothly.



MBR膜生物反应器

MBR MEMBRANE BIOREACTOR

MBR膜生物反应器介绍:

膜生物反应器 (Membrane bioreactor, MBR) 为膜分离技术与生物处理技术有机结合之新型态废水处理系统。主要利用沉浸于好氧生物池内之膜分离设备截留槽内生物处理后的活性污泥与固体物。膜生物反应 (MBR) 处理系统在国内已发展近十年, 在膜制造技术不断提高及本公司长期的应用经验, 膜生物反应器 (MBR) 处理系统已成为成熟技术并吸引着全世界环保业的目光。

Introduction:

Membrane bio-reactor (MBR) is a new type of waste water treatment system combined with membrane separation technology and biological treatment technology. Mainly use the immersion in aerobic biological pool of membrane separation equipment in the trap after the biological treatment of activated sludge and solid. Membrane bio-reactor (MBR) treatment system has been developed in China for nearly ten years. With the continuous improvement of membrane manufacturing technology and the long-term application experience of the Company, membrane bio-reactor (MBR) treatment system has become a mature technology and attracts the view of the world's environmental protection industry.



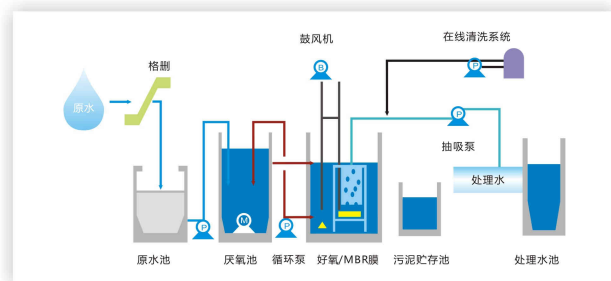
MBR膜生物反应器优点:

- 高MLSS与微滤膜过滤下, 出水水质良好稳定
- 容积负荷高, 停留时间短, 占地面积小
- 取代沉淀池及过滤单元, 无污泥沉降性问题
- 抗负荷冲击能力强, 有效处理高浓度有机废水
- 悬浮物和浊度接近于零, 适用于中水回收
- A/O法可有效去除氨氮
- 可拦截大部分致病菌, 减少消毒药剂用量
- 操作运行费用低, 低能耗及自动化控制
- 排泥周期长, 在生物自解下污泥量少



Advantages of MBR Membrane Bio-reactor:

- High MLSS and micro-filtration membrane filtration, the water quality is good and stable
- High volume load, short residence time, small occupy area
- Replace the sedimentation tank and filter unit, no sludge settling problem
- Strong anti-load impact ability, effective treating the high concentrations of organic waste water
- Suspended matter and turbidity close to zero, suitable for water recovery
- A / O method effectively removes ammonia nitrogen
- Can remove most of the pathogens, reduce the dosage of disinfectant
- Low operation costs, low energy consumption and automation control
- Sludge discharge cycle is long, in the biological self-harm less sludge



膜生物反应器 (MBR) 流程图



UF超滤设备

UF ultrafiltration equipment

超滤(UF)是一种应用最广泛的膜分离技术,主要用于溶液中物质大分子级别的分离,对深度降浊、澄清、除菌和大分子物质的分离、浓缩、分级、提纯等具有非常卓越的效果。在水处理领域,可用于去除水中的胶体、微粒、细菌、病毒、热源及大分子有机物,使水得到净化。

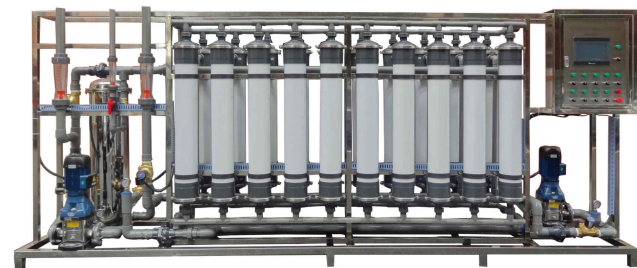
Ultrafiltration (UF) is one of the most widely used membrane separation technologies. It is mainly used for the separation of macromolecules in solution, separation, concentration, deep purification, clarification, sterilization and macromolecular substances. with great effect. In the field of water treatment, UF can filtrate particles, colloids and further remove bacteria, virus and macro-molecule organic matter from source water, thus making purified water.



21T/H超滤设备
21T/H ultrafiltration equipment



1000L/H超滤设备
1000L/H ultrafiltration equipment



40T/H 超滤设备
40T/H ultrafiltration equipment

应用领域:

1. 乳品、果汁、蔬菜汁、等澄清, 浓缩。
2. 动、植物(芦荟、罗汉果、茶叶等)有效成份提取。
3. 大豆蛋白, 低聚糖, 异黄酮等提取, 浓缩。
4. 抗生素、氨基酸、VC及其他发酵液纯化、浓缩。
5. 中药(紫胡、丹参、黄芩等)注射液有效成份纯化、分离。
6. 多糖类(灵芝、灰树花、香菇等)物质纯化、浓缩。
7. 荧光增白剂脱盐、浓缩。
8. 电泳漆回收和清水回用。
9. 纺织退浆废液中PVA回用。

Application:

1. Dairy, fruit juice, vegetable juice and other clear, concentrated.
2. Animals and plants (aloe vera, mangosteen, tea, etc.) effective ingredients extraction.
3. Soybean protein, oligosaccharides, isoflavones and other extraction, concentration.
4. Antibiotics, amino acids, VC and other fermentation broth purification, concentration.
5. Chinese medicine (Bupleurum, Salvia, Scutellaria, etc.) injection of active ingredients purification, separation.
6. Polysaccharides (Ganoderma lucidum, Grifola frondosa, mushrooms, etc.) material purification, concentration.
7. Fluorescent whitening agent desalination, concentration.
8. Electrophore paint recovery and water reuse.
9. PVA of textile desizing wastewater reuse.





直饮水设备

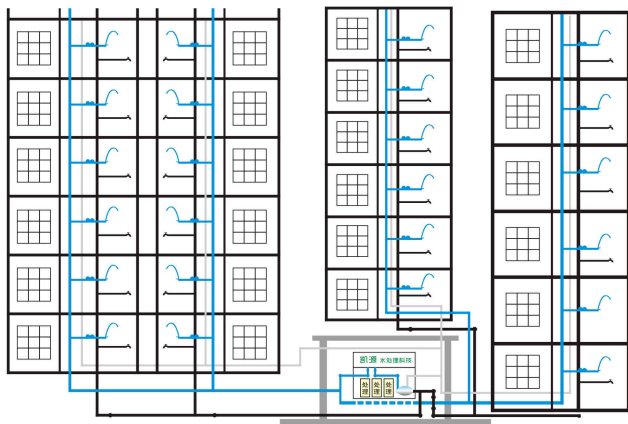
DIRECT DRINKING WATER EQUIPMENT

凯源分质供水系统由前置处理装置、反渗透装置、杀菌保鲜装置、变频供水装置四个主体部分组成,可根据不同的原水水质、地区区域、用户对出水的水质要求进行局部调整,以保证设备的经济性,稳定性和终端供水水质,保证达到用户的水质符合《饮用净水水质标准》或《瓶(桶)装水卫生标准》或世界卫生组织欧盟的《饮用水水质标准》。

Kai Yuan water supply system consists of 4 parts: pre-treatment filters, reverse osmosis device, sterilization and preservation system, and variable frequency water supply equipment. To ensure the system economical, stable and high-quality water supplying, it is necessary to adjust the system according to the raw water quality, customers religion and treated water quality requirements, finally making the treated water achieve WHO Drinkable Water Standard, Pure Drinking Water Standard and Bottled Drinking Water Standard.

直饮水净化处理系统示意图

DIRECT DRINKING WATER PURIFICATION PROCESSING SYSTEM SCHEMATIC DIAGRAM



制水系统设备目标:

- 饮用纯净水或饮用净水

分质供水制水设备的几种工艺:

- 一级/二级反渗透、纳滤、超滤、微滤

应用领域:

- 生活小区、学校、商务楼、公共场所 (如车站、公园、超市等)

TARGET OF WATER SYSTEM EQUIPMENT:

- Drink pure water or drink clean water

SEVERAL TECHNOLOGIES FOR WATER SUPPLY:

- Single stage /two stage reverse osmosis system, nanofiltration, ultrafiltration, microfiltration

AREAS OF APPLICATION:

Living community, school, business building, public places (e.g. station, park, supermarket, etc.)





变频供水系统

Frequency conversion water supply system

变频供水系统，智能型管网接力升压（无负压）设备可根据用户需求设定用户供水压力，如果管网供水压力高于设定压力时，水泵机组处于停机状态，自来水可通过连管管路直接对用户供水。当市政管网供水压力低于设定压力时，设备自动进入接力升压工作状态，机组通过压力传感器、水泵及恒压变频控制柜组成闭环控制系统，随着用水量的变化，不断调整水泵转速及投入运行的水泵台数，以保持供水压力恒定。

Frequency conversion water supply system is an intelligent pipe network relay boost (no pressure) equipment, which can be set water pressure according to user need. If the pressure of pipe network water is higher than the set pressure, the pump unit is in a shutdown state, tap water is supplied through the connecting pipe Road directly to the user. When the water supply pressure of the municipal pipe network is lower than the set pressure, the equipment automatically is in the relay boost working condition. The unit constitute the closed-loop control system by the pressure sensor, the water pump and the constant voltage frequency conversion control cabinet. With the change of the water consumption, it will adjust the quantity of pumps and rotating speed, which is to keep the water supply pressure constant.



原理：

流量调节器是密封容器，能够根据用户用水量变化自动调节运行水泵台数和一台水泵转速，使水泵出口压力保持恒定。当用户用水量小于一台水泵出水量是，系统根据用水量变化有一台水泵变频调速运行，当用水量增加时管道系统内压力下降，这时压力传感器检测到到的信号传送给微机控制单元，通过微机运行判断，发出指令到变频器，控制水泵电机，使转速加快以保证系统压力恒定，反之当用水量减少时，使水泵转速减慢，以保持恒压。当用水量大于一台泵出水时，第一台泵切换到工频运行，第二台泵开始变频调速运行，当用水量小于两台泵出水量时，能自动停止一台或二台泵运行。在整个运行过程中，始终保持系统恒压不变，使水泵始终工作在高效区，既保证用户恒压供水，又节省电能。设备不需配备专职操作人员。

Principle:

Flow regulator is a sealed container, which can adjust automatically the quantity of running water pump and rotating speed of single pump according to the user changes in water consumption, so that can maintain the pump outlet pressure constantly. When the user water consumption is less than the amount of water of one water pump, there is one pump operating frequency conversion and speed control according to the change of water consumption. When the water consumption increases, the pressure of pipeline in system will be dropped, then the signal detected by pressure sensor be sent to the computer control unit. Through the computer to determine the operation, issued instructions to the inverter, control the pump motor, so that accelerate spin to ensure that the system pressure is constant. Otherwise when the water consumption is reduced, the pump speed slows down to maintain constant pressure. When the water consumption greater than output water of one pump, the first pump switch to the frequency of operation and the second pump start the frequency control operation. When the water consumption is less than output water of two pumps, it can automatically stop one or two pumps running. In the whole operation process, always keep the system constant pressure so that the pump always work in the efficient area, both to ensure that users constant pressure to supply water, but also save energy. Equipment does not need full-time operator.



设备特点：

Characteristics of Equipment

★节能:节约电能高达30%—80%

Energy saving: Saving Electricity up to 30%—80%

★环保:过流部件均采用食品级不锈钢。杜绝用水二次污染

Environmental protection: Components water flow thought adopt stainless steel which can be used as food, to prevent secondary pollution.

★安全:防空转，防低压，防泵裂，防水锤，防回流，防电流过载

Safety: anti-slip, prevent low Water level, prevent Cracked, prevent Water hammer, prevent Backflow, prevent current overload

★美观:采用高品质材料和专业的设计使产品更加美观

Beautiful: The use of high-quality materials and professional design to make products more beautiful

★省钱:无需建设水池和水箱，不需经常清洗、消毒，节省50%以上的建设费和后期清洁维护费

Save money: There is no need to build pools and tanks, not need to clean and disinfect regularly. Saving more than 50% of the construction fee and the latter part of the cleaning and maintenance costs

★水压稳定:通过实时传感器检测出水口压力，利用变频控制，保证用水压力恒定

Water pressure stability: The outlet pressure is detected by a real-time sensor. The use of frequency control is to ensure constant water pressure

★占地少:设备成套出厂，体积小，安装占地空间小

Take up less space: The equipment delivery by complete sets. The volume and installation space is small.

★噪音低，震动小，适用范围广。

low noise, Small vibration, Wide range of applications.

★内置专用变频器，智能化程度高

Built-in dedicated inverter, High degree of intelligence

★断电前变频器记录当前状态，断电10s后自动重启

The inverter records the current status before power off. The power will automatically restart power after 10 seconds.

★具有自动报警功能，出现故障时可采取应急措施

There is automatic alarm function. Emergency measures can be taken when a failure occurs.

★操作简单，使用寿命长，安装、维修和管理方便

It is easy to operate, install, repair and manage. Service life is long.



洗灌封三合一体机

WASHING, FILLING AND SEALING MACHINE

设备概述:

本机为高速回转式冲瓶、灌装、封盖一体机。冲瓶机为回转式冲瓶，瓶夹设有自锁结构，确保抓瓶稳定可靠；设有介质转换装置及开、闭装置，使冲瓶时间可调，灌装采用德国高精度机械灌装技术，灌装速度快、液面精度高，采用导杆式对中，有预罩功能，整机瓶口定位输送，进出瓶平稳可靠。

This machine is a high-speed rotary bottle washing, filling and capping machine. The bottle washing machine is a rotary rinsing machine, and the bottle clamp is equipped with a self-locking structure to ensure stability and reliability of bottle grabbing; it is equipped with a medium conversion device and an opening and closing device to make the rinsing time adjustable. The filling machine is filled with German high-precision machinery technology, with fast filling speed and high liquid level accuracy, the guide rod type centering, pre-covering function, positioning and conveying of the bottle mouth of the whole machine, stable and reliable in and out of bottles.



型号 Model	MK8-8-3	MK18-18-6	MK24-24-8	MK32-32-10	MK40-40-10
工位数 Production unit	洗瓶8/灌装8/封盖8	洗瓶18/灌装18/封盖6	洗瓶24/灌装24/封盖8	洗瓶32/灌装32/封盖10	洗瓶40/灌装40/封盖10
生产能力 Capacity (500ml)	2000-3000 瓶/小时	5000-6000 瓶/小时	8000-10000 瓶/小时	12000-14000 瓶/小时	16000-18000 瓶/小时
气压压力 Air pressure	0.4-0.7MPa				
瓶子尺寸 Bottle size	瓶身直径50-110/高度150-310(可按需定制) Bottle diameter 50-110/height 150-310 (Can be customized on demand)				
冲瓶水压力 Pressure	0.25MPa				
主机电功率 Power	2.5KW	3.5KW	5.0KW	6.5KW	7.5KW
外形尺寸 Size	2000*1800 *2200	2400*2000 *2200	3200*2200 *2200	4100*2200 *2200	4300*2300 *2200
整机重量 Weight	1800kg	2500kg	3500kg	4800kg	7500kg



设备优势:

1. 本机为变频无级调速，整机采用PLC工业电脑控制，具有有瓶灌装，无瓶不灌装的功能；
2. 拧盖机采用磁力拧盖，并有过载保护功能，抓盖采用二次抓盖，确保抓盖准确可靠；
3. 主传动采用齿型带和齿轮箱开式传动组合，效率高、噪声小；
4. 整机采用全自动集中润滑。本机适用于矿泉水，纯净水的生产。

Equipment advantages:

1. This machine is frequency conversion stepless speed regulation, the whole machine adopts PLC industrial computer control, has the function of filling if there is a bottle, won't fill if without bottle;
2. The capping machine adopts magnetic force to screw the cover, and has overload protection function. The second time cover grabbing is adopted to ensure the accuracy and reliability of capping;
3. The main drive adopts the gear belt and gearbox open transmission combination, with high efficiency and low noise;
4. The whole machine adopts automatic centralized lubrication. This machine is suitable for the production of mineral water and purified water.





自动吹瓶机

Automatic bottle blowing machine

产品简介:

塑料出品及涵盖: PET半自动吹瓶机、PET全自动吹瓶机、PE、PP、PVC一步法全自动中空吹瓶机及各种精密注塑模、吹瓶模和全套辅助设备。设备性能、技术创新处于行业领先水平。功能领先、快速高效是凯源的设计精髓。设备采用自动输送瓶控制方式,为企业减少人员、降低成本提高品质。电机驱动是日本三菱伺服,配备台湾法斯特减速机,稳定、节能、高效。设备操控设计是进口三菱或西门子人机界面程序,性能稳定,操作简单,整机还设计具备自动报警、自动故障检测判断功能,检修方便快捷。

Product introduction:

Plastic production and coverage: PET semi-automatic blow molding machine, PET automatic blow molding machine, PE, PP, PVC one-step automatic hollow blow molding machine and various precision injection molds, blow molding molds and a full set of auxiliary equipment. Equipment performance and technological innovation are at the leading level in the industry. Leading functions, fast and efficient are the essence of Kaiyuan's design. The equipment adopts the automatic conveying preform control method to reduce personnel, reduce costs and improve quality for enterprises. The motor is driven by a Japanese Mitsubishi servo, equipped with a Taiwan Faston reducer, which is stable, energy-saving and efficient. The equipment control design is imported Mitsubishi or Siemens man-machine interface program, with stable performance and simple operator the whole machine is also designed with automatic alarm, automatic fault detection and judgment functions, convenient and quick maintenance.



水瓶全自动吹瓶机

Water bottle automatic blow molding machine



参数 Parameter	KYX-1L/J1
模腔数量 Cavity number	1
制品容量 Container Volume	1L
开模行程 Mold opening stroke	88mm
模具厚度 Mold thickness	180mm
拉伸行程 Stretching stroke	400mm
理论产量 Theory yield	1500 Bph (*)
瓶子直径 Container diameter	35-75mm
瓶子高度 Container height	40-320mm
螺纹尺寸 Neck range size	18-38mm
电源电压 Supply voltage	三相380V/50-60HZ
总功率 Total power	12KW
实际功率 Actual power	6KW
工作压力 Working pressure	8bar
吹瓶压力 Blowing pressure	30bar
低气压气量 Low air volume	0.5m³/min
高压气气量 High air volume	0.6m³/min
用水量 Water consumption	16-25L/min
设备尺寸 Equipment size	2.0*1.6*1.8m
设备重量 Equipment weight	1800kg
合格率 Pass rate	>99.8%



广口瓶自动吹瓶机

Automatic bottle blowing machine with wide mouth



参数 Parameter	KYX-2L/S2	KYX-3L/S2
制品容量 Container Volume	2L	3L
理论产量 Theory yield	1350	1200
开模行程 Mold opening stroke	145mm	165mm
模具厚度 Mold thickness	220mm	220mm
最大瓶子高度 Bottle height	360mm	410mm
最大瓶子直径 Bottle diameter	105mm	125mm
设备尺寸 Equipment size	1.6*0.7*1.7m	1.6*0.7*1.7m
电源电压 Supply voltage	三相380V/50-60HZ	三相380V/50-60HZ
加热功率 Heating power	12KW	12KW
加热数量 Quantity	72个	72个
设备尺寸 Equipment size	1.6*0.6*1.5m	1.6*0.6*1.5m
耗气量 Air consumption	0.7m³/min	0.7m³/min
工作压力 Working pressure	3bar	3bar
电机功率 Power	7.5KW	7.5KW
设备尺寸 Equipment size	1.58*0.8*1.15m	1.58*0.8*1.15m

应用领域:

塑料中空容器以质价廉、安全性高等特性,广泛应用于饮料、医药、化妆品、食品及化工行业,更是吸引了更多的生产商选择塑料容器代替以往的玻璃容器。

Application fields:

The hollow plastic container is widely used in beverage, medicine, cosmetic, food and chemical industry because of its low cost and high safety.

It has attracted more manufacturers to choose plastic container instead of glass container

参数 Parameter	KYX-GK125/R1
模腔数量 Cavity number	1
制品容量 Container Volume	5L
开模行程 Mold opening stroke	178mm
模具厚度 Mold thickness	220mm
拉伸行程 Stretching stroke	450mm
理论产量 Theory yield	650 Bph (*)
瓶子直径 Container diameter	80-165mm
瓶子高度 Container height	50-360mm
螺纹尺寸 Neck range size	50-120mm
电源电压 Supply voltage	三相380V/50-60HZ
总功率 Total power	26KW
实际功率 Actual power	15KW
工作压力 Working pressure	8bar
吹瓶压力 Blowing pressure	30bar
低气压气量 Low air volume	0.7m³/min
高压气气量 High air volume	0.8m³/min
用水量 Water consumption	16-25L/min
设备尺寸 Equipment size	2.8*2.0*2.0m
设备重量 Equipment weight	2500kg
合格率 Pass rate	>99.8%

半自动吹瓶机

Semi-automatic bottle blowing machine





液体包装机

LIQUID PACKING MACHINE

本机广泛应用于牛奶、豆奶、各种饮料、果酱、醋、酒等各种液体的单聚乙烯薄膜包装，能自动进行紫外线灭菌，料袋成型，定量灌装。封合切断一次性完成，整机采用不锈钢结构，达到国际卫生标准。该机性能平稳可靠，操作简单，故障率低。得到国内外客户的一致好评。

This machine is a single polyethylene film package widely used in milk, soy milk, all kinds of beverages, jam, vinegar, wine and other liquids. It can sterilize automatically by ultraviolet. Filling in bag as per volume. Sealing and cutting are completed at one time. The machine is made of stainless steel, which meets the standards of World Health Organization (WHO). The machine performance is smooth and reliable, easy to operate, low failure rate. Domestic and foreign customers all have a good reputation of this machine.



手动拔盖机
Manual decapping machine



半自动拔盖刷桶机
semi-auto washing and decapping machine

桶装水灌装机

Bottle water filling machine

该生产线是专供3-5加仑桶装饮用水生产之用，型号有100型、150型、240型、300型、450型、600型。该系列桶装处理系统由瓶洗、灌装、封口三部分组成。洗瓶机采用多道洗涤液喷射和消毒液喷射，达到洗涤、消毒的目的，消毒液可以循环使用，以确保瓶盖无菌清洁。该系列生产线均可自动洗涤、消毒、灌装、压盖，计数和输出。具有功能齐全、设计新颖、自动化程度高等特点，是集机、电、器为一体的新型饮用水桶装设备。

This production line is designed for 3-5 gallon bottled drinking water production, there are many models, such as 100B/H, 150B/H, 240B/H, 300B/H, 450B/H, 600B/H.... The series of bottle processing system is consists of washing bottles, filling and capping. Washing machine is adopted multi-channel spray of wash solution and disinfectant, which to achieve the purpose of washing and disinfection. Disinfectant can be recycled to ensure that the cap is sterile and clean. The series of production lines can be automatically washed, disinfected, filling, capping, counting and output with a full-featured, innovative design, a higher degree of automation characteristic. It is a new type of water bottled filling machine that integrates electricity and gas.



120桶/小时自动灌装线
120 Bottle/hour auto filling machine

瓶装纯净水自动化生产线

AUTOMATIC PRODUCTION LINE OF BOTTLED PURIFIED WATER

系统介绍：

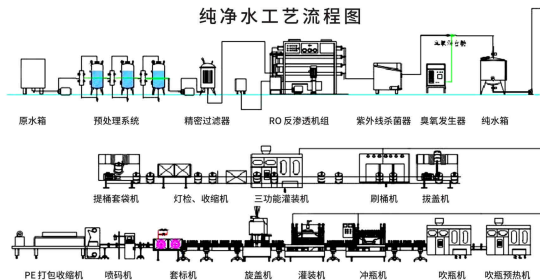
当前社会经济快速发展，科学技术水平逐步提升，纯净水生产逐渐受到关注和重视，现如今人们生活，工作中大量使用灌装纯净水，不仅便利，也相对卫生。本文主要介绍灌装纯净水生产线的实际情况，研究全自动灌装技术设备，明确其具体应用，了解使用全自动灌装技术，设备能够减少改在人员的劳动强度，使灌装纯净水的质量达到卫生标准，并创造良好的经济以及社会效益。

瓶装纯净水生产线主要由反渗透水处理设备和洗灌封三合一机组组成，实现全自动化。

At present, with the rapid development of social economy and the gradually improvement of science and technology, the production of purified water has been paid more and more attention. Nowadays, people's living and work with a large number of bottled purified water, which is not only convenient, but also relatively healthier. This part mainly introduces the actual situation of the production line of filling purified water, studies the technical equipment of automatic filling machine, and clarifies its specific application, understand that the use of full-automatic filling machine technology, the equipment can reduce the labor intensity of personnel, make the quality of filling pure water reach the health standard, and create good economic and social benefits.

Bottled purified water production line is mainly composed of reverse osmosis water treatment equipment and washing, filling and sealing machine, realizing full automation.

纯净水工艺流程图





紫外线杀菌器

ULTRAVIOLET STERILIZER

紫外线作用:

紫外线是一种肉眼看不见的光波, 存在于光谱紫外光端的外侧, 故称之为紫外线。紫外线主要作用于微生物的核酸、脱氧核糖核酸 (DNA)、核糖核酸 (RNA) 等, 导致其被破坏, 对蛋白质及其它生命物质亦产生一定的作用力。

Ultraviolet effect:

Ultraviolet radiation is a visible light can not see the outside of ultraviolet spectrum exists in the end, it is called ultraviolet. Ultraviolet radiation mainly acts on the nucleic acid, DNA and RNA of microorganisms, resulting in the destruction of proteins and other substances.



臭氧发生器

OZONE GENERATOR

臭氧的作用:

臭氧 (O_3) 是氧气的同素异形体, 有三个氧原子组成, 密度是氧气的1.5倍, 在水中的溶解度是氧气的10倍。臭氧是一种强氧化剂, 能破坏分解细菌的细胞壁, 很快地扩散透进细胞内, 氧化分解细菌内部氧化葡萄糖所必须的葡萄糖氧化酶等, 也可以直接与细菌、病毒等发生作用, 破坏细胞、分解核糖核酸 (RNA) 和脱氧核糖核酸 (DNA), 蛋白质, 脂类和多糖等大分子聚合物, 使细菌的代谢和繁殖过程遭到破坏

OZONE EFFECT:

Ozone (O_3) is the allotrope of oxygen, made up of three oxygen atoms, which is 1.5 times as concentration as oxygen and 10 times more soluble in water than oxygen. Ozone is a strong oxidizer, can destroy and decomposing cell walls of bacteria, and quickly spread to penetrate cells, glucose oxidase, which is necessary for oxidizing glucose in bacteria etc., it can also directly interact with bacterial, viruses, cell damage, breaking down ribonucleic acid (RNA) and deoxyribonucleic acid (DNA), proteins, lipids and macromolecular polymers such as polysaccharides, ruined the bacterial metabolism and reproduction.



参数 PARAMETER	型号 MODEL	OZ-3G	OZ-5G	OZ-7G	OZ-10G	OZ-15G
臭氧产量 (g/h) OZONE PRODUCTION		3	5	7	10	15
冷却方式 COOLING METHOD		风冷 Air cooling				
最大臭氧浓度 MAX. OZONE CONCENTRATION (g/m ³)		氧气源Oxygen source: 25-45 空气源Air source: 5-15				
长x宽x高 L*W*H (mm)		350x250x520		350x250x580		350x250x630
重量 WEIGHT (kg)		11	12	12	13	13
功率 POWER (W)		140	160	160	180	180
使用电源 ELECTRICAL POWER SUPPLY		220V 50Hz (中国销售) 110V50-60Hz (国外部分地区销售)				
使用气源 GAS SOURCE		使用氧气 (瓶装气或氧气发生器) 气源; 或使用洁净干燥空气源 Oxygen or dry clean air				



面板式流量计
Panel flowmeter



管道式流量计
Pipe flowmeter



压力表
Pressure gauge



电导率仪
Conductivity meter



SEKO-计量泵
SEKO-dosing pump



RO-控制器
RO controller



压力开关
Pressure switch



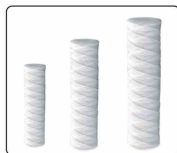
电磁阀
Water solenoid valve



玻璃钢罐体
FRP tank



PP滤芯
PP filter cartridge



线绕滤芯
wound filter cartridge



折叠滤芯
PEFT



PVC过滤器
PVC filter



不锈钢过滤器
SS filter



手动多路控制阀
Manual control valve



卫生级阀门
Sanitation grade valve



南方泵
Nanfang (GNP) Pump



南方泵
Nanfang (GNP) Pump



自动多路控制阀
Auto control valve



树脂
Resin



活性炭
Activated carbon



石英砂
Quartz sand



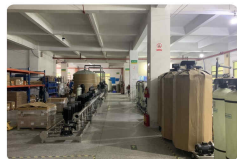
国产汇通RO膜
Vontron RO membrane



陶氏RO膜
DOW RO membrane



凯源企业风采 KAIYUAN ENTERPRISE STYLE



感恩有你，一路同行！
WE ARE TOGETHER

