



LEFILTER[®]

新乡市利菲尔特滤器股份有限公司
XINXIANG LIFEIERTE FILTER CORP. LTD

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证券简称：新乡滤器 股票代码：837936

水处理设备
WATER TREATMENT
EQUIPMENT



净化环境、服务社会
诚信经营、追求卓越

新乡市利菲尔特滤器股份有限公司
XINXIANG LIFEIERTE FILTER CORP. LTD

ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ
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公司简介

新乡市利菲尔特滤器股份有限公司位于河南省新乡市。专注于流体环保行业，是专业研发和制造海水淡化系统、污水处理设备，反渗透装置、超纯水系统、软水设备的股份制企业。公司拥有高精密生产水处理设备、过滤设备和滤芯的制造设备，同时拥有检测设备、万级洁净厂房。

公司以质量求生存，以创新求发展。拥有完善的质量保障体系，已获得ISO9001质量体系、ISO14001环境体系、OHSAS18001职业健康安全管理体系认证和A2压力容器制造许可证。产品主要应用于冶金、石化、电力、造纸、机械加工等众多领域，全球战略合作伙伴达两万余家，辐射78个国家和地区，产品市场占有率极高。公司秉承“净化环境、服务社会、诚信经营、追求卓越”为宗旨，2014年，与河南工学院共建“流体环保滤器研发中心”并已取得10项研发成果，同时取得实用新型专利产品近50项。

我司生产的过滤器、滤油机、过滤设备产品多次获得区市科技进步奖。公司已成为中石化，宝山钢铁、玖龙纸业、中国五大电力集团、三一重工、神华煤业等行业领军企业的合格供应商。公司先进的生产制造设备，过硬的产品质量赢得了海内外客户的一致认可。

公司拥有雄厚的科研技术实力，并严格执行行业制造标准和质量控制体系，以全球客户需求为导向，为流体环保过滤行业保驾护航。2016年，公司在全国中小企业股份转让系统挂牌上市，股票简称：新乡滤器，股票代码：837936。我们将一如既往让您享有质优价廉的产品，用我们的产品满足您的需求，用我们的产品让您生活的更幸福。

COMPANY PROFILE

Xin xiang Lifeierte Filter Corp., Ltd(short name: Lefilter) is located in Xinxiang city, Henan province, focusing on the fluid environmental protection industry. It is a joint-stock enterprise specializing in R&D and manufacturing of desalination systems,sewage treatment equipment, reverse osmosis equipment, ultrapure water systems and soft water equipment. Lefilter has high-precision production equipment for water treatment equipment, filtration equipment and filter elements, as well as testing equipment and 10,000-level clean workshops.

Lefilter strives for survival by quality and development by innovation. With a sound quality assurance system,it has obtained ISO9001 quality system,ISO14001 environmental system, OHSAS18001 occupational health and safety management system certification and A2 pressure vessel manufacturing license. The products are mainly used in many fields such as metallurgy, petrochemical, electric power, papermaking, mechanical processing, etc.The global strategic partners reach more than 40,000, covering 78 countries and regions, and the product market share is extremely high. Lefilter adheres to the tenet of "purify environment, serve community, integrity management, pursue excellence".In 2014,Lefilter cooperated with Henan Institute of Technology to build a "fluid environmental protection filter R&D center" and has achieved over 10 research and development results, and obtained nearly 50 utility model patent products.

The filter element, filter housing and filter machine produced by our company have won the "District Science and Technology Progress Award" for many times. Lefilter has become a qualified supplier of leading enterprises in Sinopec, Baoshan Steel, Nine Dragons Paper, China electricity groups, Sany Heavy Industry, Shenhua Coal and other industries. Advanced production and manufacturing equipment, excellent product quality has won the unanimous recognition of customers at home and abroad.

Lefilter has strong scientific and technological strength, and strictly implements the industry's manufacturing standards and quality control system, guided by the global customer demand to protect the fluid filtration industry. In 2016,Lefilter was listed on the national SME share transfer system, the stock name: Xinxiang filter, stock code: 837936.Lefilter will always let you enjoy high quality and low price products, use our products to meet your needs, and use our products to make your life happier.

企业文化 Enterprise culture

利菲尔特精神--团结、务实、敬业、高效、创新。

- 精诚合作、奋发向上、荣辱与共、肝胆相照的团结精神。
- 诚实正直做人，脚踏实地做事，表里如一，言行一致的务实精神。
- 认真负责，爱岗忠诚，刻苦钻研，工作严谨的敬业精神。
- 行动迅速，执行力强，立竿见影的高效精神。
- 不断超越，追求卓越，开拓进取，敢为人先的创新精神。

企业价值观--客户的成功就是我们的成功。

- 质量观：**质量就是我们的生命。没有质量，就没有生命。重视质量，关爱生命。
- 学习观：**善于学习，勤于学习，精于学习。
- 科技观：**科技是第一生产力，科技创新是企业发展的原动力。依靠科技进步，才能赢得市场。
- 工作观：**没有什么不可能，一切都会有方法。（有问题是方法不对，有困难是能力不足。）
- 市场观：**发现需求，满足需求。发现需求，掌控市场。
- 服务观：**快速，高效，便捷地为客户提供最大价值的服务。用“一心”换“三心”，即我们一心一意的服务，换取客户的省心，放心，开心。
- 用人观：**赛马不相马。择优录用，任人唯贤。
- 发展观：**发展是硬道理，发展是第一要务。
- 安全观：**安全就是幸福，安全就是效益。
- 品牌观：**品牌就是招牌，品牌力就是形象力。
- 改革观：**改革是发展的原动力，没有改革，企业就没有活力！
- 道德观：**文明经营，诚实守信。

经营理念--以质取胜，以诚待客，以德从商，以法治企，服务至善，诚信天下。

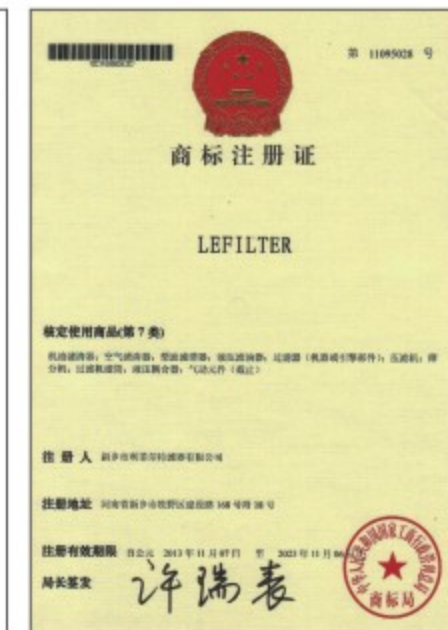
经营方针：

- 优质产品与优质服务统一
- 经济效益与社会效益统一
- 内强管理与外拓市场统一
- 员工利益与企业利益统一

经营哲学：求同存异，实现共生。

质量方针：质量在我手中，品牌在我脑中，用户在我心中。

企业资质 Enterprise qualification

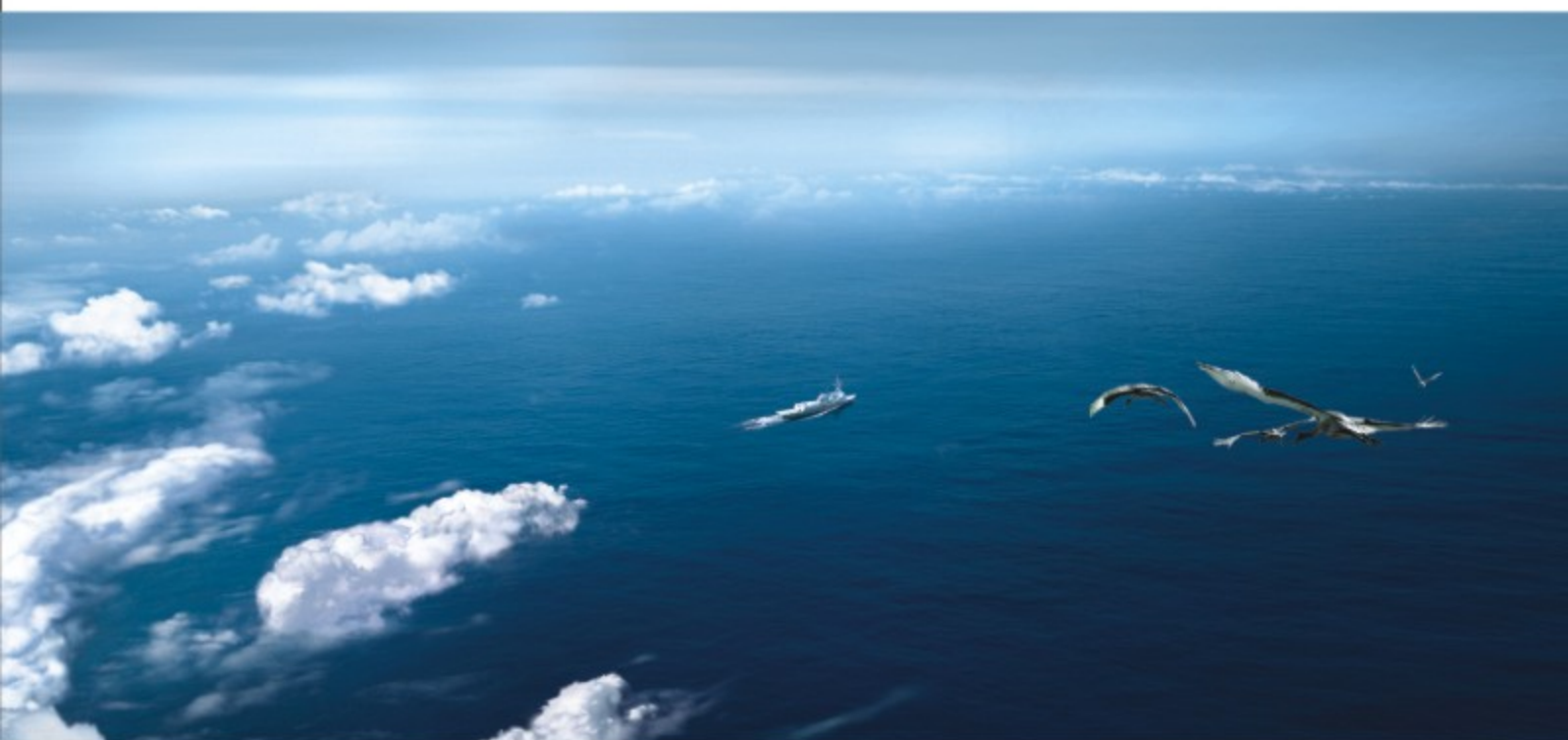


车间一角 WORKSHOP

管理不断更新 Management innovation

产品推陈出新 Product innovation

品质精益求精 Quality improvement



应用领域 APPLICATION FIELD

饮用水：纯净水、矿泉水、桶（瓶）装水、袋装水等
 食品加工用水：冷饮食品、罐头、禽、畜肉类加工、蔬菜精加工等
 酒类饮料用水：白酒、啤酒、葡萄酒、碳酸饮料、茶饮料、乳制品等
 电子工业超纯水：单晶硅半导体、继承电路块、液晶显示器等
 医药行业用水：医药制剂、大输液、天然物质提取、中药饮品等
 优质生活用水：小区、宾馆、机场、学校、医院、部队、企事业单位等
 工业生产用水：汽车、电镀超纯水、涂装、涂料、油漆、锅炉软化水等
 海水苦咸水淡化：海岛、船舰、盐碱地区生活饮用水制取
 纺织造纸用水：印染用水、喷水织机用水、造纸白水等
 循环冷却水：中央空调、冶炼、水冷空调
 游泳池净水：室内游泳馆、室外景观池等
 花卉与养殖用水：花卉育苗、组培；鱼类养殖、观赏鱼等
 污水/废水处理：电镀、纺织、化工、养殖、生活污水等
 零排放水：电镀、纺织、化工、养殖、电子等
 直饮机/净水器：公司员工和家庭饮用

Drinking water: Purified water, mineral water, mountain spring, bucket (bottle) water, bags, etc
 The food processing water: Cold food, canned food, poultry, poultry, meat processing, finishing and other vegetables
 Alcohol, drink water: Liquor, beer, wine and carbonated drinks, tea drinks, dairy products, etc
 Electronic industrial ultrapure water: Monocrystalline silicon semiconductor, integrated circuit, liquid crystal displays, etc
 The pharmaceutical industry with water: Pharmaceutical preparation, large infusion, natural material extract, herbal drink etc
 High quality drinking water: Community, hotels, airports, schools, hospitals, army, enterprises and institutions
 Industrial production water: Car, electroplating ultrapure water, boiler softened water, coating, paint, paint, etc
 Brackish seawater desalination: Island, ships, drinking water from saline area
 Textile and paper-making water: printing and dyeing, paper making, in the use of water
 Circulating cooling water: Central air conditioning, smelting, water cooling air conditioning
 Swimming pool water purification: Indoor swimming pool, outdoor landscape pool, etc
 Flowers and the aquaculture water: Flower seedlings, seed, Fish farming, fish, etc
 Sewage/wastewater treatment: electroplating, textile, chemical, aquaculture, domestic sewage, etc
 Zero discharge water: electroplating, textile, chemical, aquaculture, electronic, etc
 Straight drink machine/water purifiers: Company staff and family drinking



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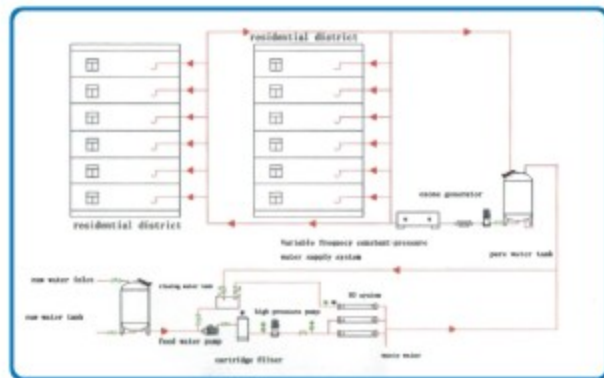
社区（酒店、宾馆、住宅等）直饮水设备 Film technology application field

清洁饮用水是人类生产的必要条件，环境污染迫使我们首先必须对水净化处理，才能安全地饮用。管道直饮水是90年代欧美发达国家的饮水革命，在我国北京、上海、广州、深圳等城市是以居民楼、住宅小区、办公楼、宾馆、学校等单位供水供应采用“双管入户、分质供水”工程。主要内容是地面（多层楼）或楼顶（高层楼）建造饮用净水集中供水站，装备一套反渗透、纳滤制水设备。制水设备生产的饮用净水先送入大型不锈钢储水罐中，然后通过采用食品级环保健康水管和闭路循环结构的特殊管网直接供应到各家住户，使住户在家中打开水龙头便可取用优质口感甘醇饮用净水。

分质供水的净水工艺是对自来水的深度处理，它通过过滤、软化、膜分离（RO或UF）杀菌等方法，去除水中有害重金属、有机物、细菌及病毒等杂质，使其成为优质饮用净水（或纯净水），通过专设的特种卫生管道直接送入每家每户，供居民使用，与原有的自来水彻底分开，原自来水成为日杂用水。这种把两条管道封不同水质，供应饮用水和生活用水方式称作管道优质饮用净水，也称分质供水。

Clean drinking water is a necessity for humans to survive, and environmental pollution has compelled us to make purifying treatment before drinking safely. Pipeline instant drinking water is a revolution in developed countries in America and Europe in nineties. In China, in city such as Beijing, Shanghai, Guangzhou, and Shenzhen etc, "Double-pipe entering doors, quality-separation water supply" project is implemented for drinking water supply in units such as residential buildings, residential communities, office buildings, hotels, and schools etc. It mainly means to build up centralized drinking water supply station on ground (multi-floor building) or roof (high building), and to attach a set of reverse osmosis and water acceptance & filter equipment. Drinking clean water produced by water manufacturing equipments are fed into large-scale stainless steel water storage tank firstly, the through food level environmental protection and healthy water pipe and special pipeline network of close-loop circulating structure, supplied directly to every family, to make every resident able to enjoy superior-quality, sweet drinking water only by turn on taps of tap water at home.

Purifying technology in quality-separation water supply in to carry out deep treatment on tap water. It eliminates impurities such as harmful heavy metals, organic substances, bacteria and virus etc, in water, by methods such as filtering, softening, film separation (RO or UF) and sterilization etc, to obtain superior-quality drinking clean water (or pure water), and transfer into every family directly through special pipes for residents to use. It is separated from daily tap water, and original tap water is used as daily usage water. The method to separate water of different quality by two different pipelines in order to provide drinking water and daily usage water, is called as pipeline superior-quality drinking water supply, or quality-separation water supply.



LF-ROI-500L



LF-ROI-1000L



变频恒压供水泵

反渗透设备 Reverse osmosis system

反渗透是一种借助于选择透过（半透过）性膜的工力能以压力为推动力的膜分离技术，当系统中所加的压力大于进水溶液渗透压时，水分子不断地透过膜，经过产水流道流入中心管，然后在另一端流出水中的杂质，如离子、有机物、细菌、病毒等，被截留在膜的进水侧，然后在浓水出水端流出，从而达到分离净化目的。

我们日常所饮用的纯净水都是经过反渗透设备处理的。

Reverse osmosis is a membrane separation technology that with the aid of choice through (through) power, use the pressure as driving force. When the increased pressure in system is higher than the pressure of inflow solution infiltration, the water molecules through the membrane unceasingly, go through the production water pipe and water flows into the central tube, and then the impurities in the water outflow of the pipe, such as ion, separation and purification. The pure water that we everyday drinking is treated with reverse osmosis device.

产品优点 Advantage

- 1.透水量大、脱盐率高。正常情况下≥98%
- 2.对有机物、胶体、微粒、细菌、病毒、热源等有很高的截留去除作用。
- 3.能耗小，水利用率高，运行费用低于其它脱盐设备。
- 4.分离过程没有相变，具有可靠稳定性。
- 5.设备体积小，操作简单、容易维护、适应性强、使用寿命长。

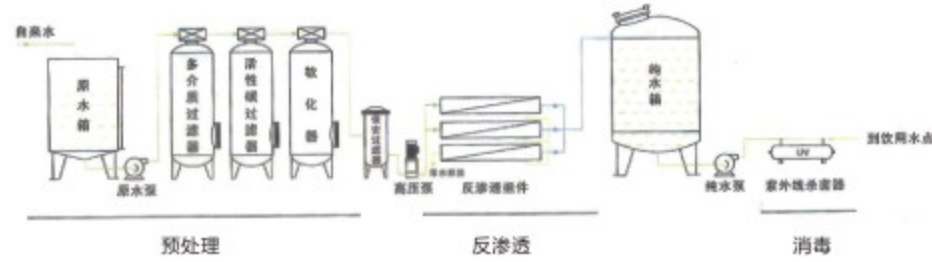
1. Large amount of water permeable. High desalination rate. Under normal circumstances desalination rate can be above 98%.
2. Has a high rejection of organics, colloids, particles, bacteria, viruses, heat removal effect.
3. Low energy consumption, high water use efficiency, operating cost is lower desalination equipments.
4. There is no phase transition in the process of separation, with reliability and stability.
5. Equipment with small size, simple operation, easy maintenance, adaptable, long service life.

应用领域 Application

- 食品行业用水 Food and beverages
- 电子行业用水 Electronics industry, Electronic Component manufacturing
- 电子管和微电路制造 Tube and Micro Circuit manufacturing
- 医疗行业用水 Medical industry, Pharmaceuticals
- 楼宇社区公共用水 Building community public water supply
- 酒店和旅馆 Hotels & Resorts
- 矿物质水处理 Mineral Water Processors
- 化工行业用水 The chemical industry with water
- 发电设备 Power Generation

单级反渗透设备 Single-stage reverse osmosis

工艺流程 Process



原水→原水箱→多介质过滤器(石英砂过滤器)→活性炭过滤器→软水处理(添加阻垢剂装置)→精密过滤器→高压泵→一级反渗透(RO)装置→紫外线杀菌器(臭氧杀菌装置)→用水点

Raw water → the original tank → raw water pump → multi-media filter(quartz sand filter) → activated carbon filter → water softener processor(Add the scale inhibitors device) → precision filter reverse osmosis(RO) high-pressure pump → Device → ultraviolet disinfection device(ozone sterilization device) → water points

单级反渗透实物图展示 Photo :



LF-ROI-250L



LF-ROI-500L



LF-ROI-500L



LF-ROI-500L



LF-ROI-1T



LF-ROI-2T



LF-ROI-3T



LF-ROI-6T



LF-ROI-16T



LF-ROI-60T



LF-ROI-50T



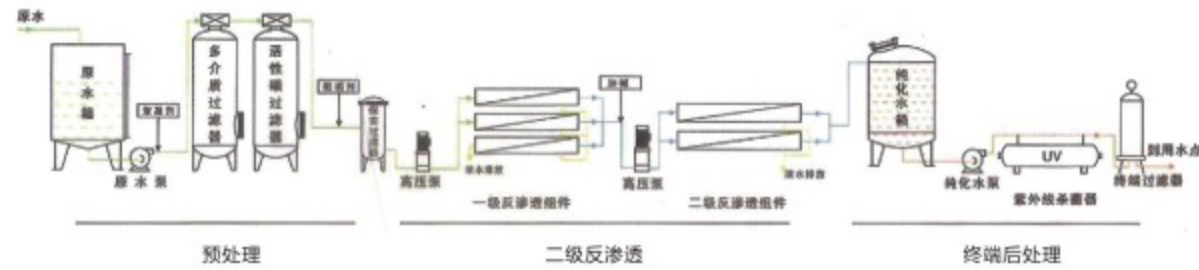
LF-ROI-120T



二级反渗透设备

Double stage reverse osmosis

工艺流程（以医药行业为例）Process for the pharmaceutical industry(for example)



原水箱 → 原水泵 → 多介质过滤器 → 活性炭过滤器 → 软化器 → 精密过滤器 → 一级反渗透设备 → 中间水箱 → 二级反渗透设备 → 纯化水箱 → 紫外杀菌器 → 微孔过滤器 → 用水点（循环到纯化水箱）

Raw water tank → raw water pump → multi-media filter → activated carbon filter → water softener processor → precision filter → Level reverse osmosis(RO)device → middle water tanks → 2 Level reverse osmosis (RO) device middle → Sterile water tank → pure water → pump pultraviolet sterilizer → microporus filter → water points (Circulation to the purified water tank)

双级反渗透就是第一级反渗透的透过水经调整PH值后，再由第二级高压泵送进第二级反渗透系统处理，从而获得透过水的过程。

Double stage reverse osmosis is the first stage reverse osmosis permeate water PH value adjusted, and then by a second stage high pressure pump into the second stage reverse osmosis system processing to obtain through the process of water



LF-ROII-EDI-250L(GMP)



LF-ROII-EDI-1T(GMP)



LF-ROII-EDI-10T(GMP)

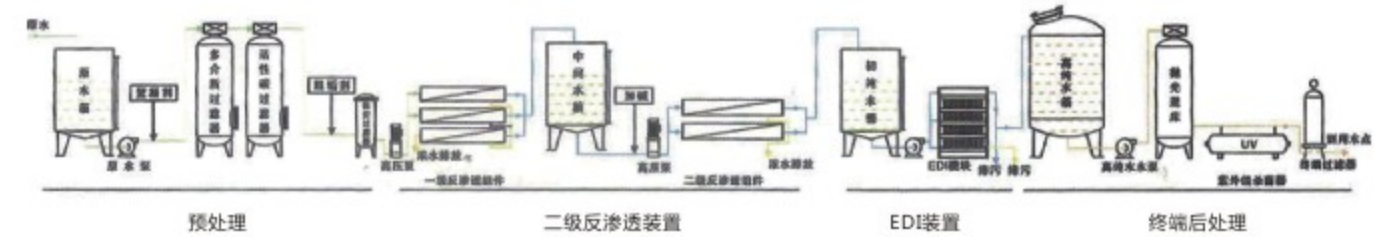


LF-ROII-70T

EDI超纯水

EDI ultrapure water

工艺流程 Process



原水箱 → 原水泵 → 多介质过滤器 → 活性炭过滤器 → 软化器 → 精密过滤器 → 一级反渗透设备 → 中间水箱 → 二级反渗透设备 → 二级纯水箱 → EDI → 纯化水箱 → 纯水泵 → 紫外线杀菌器 → 用水点

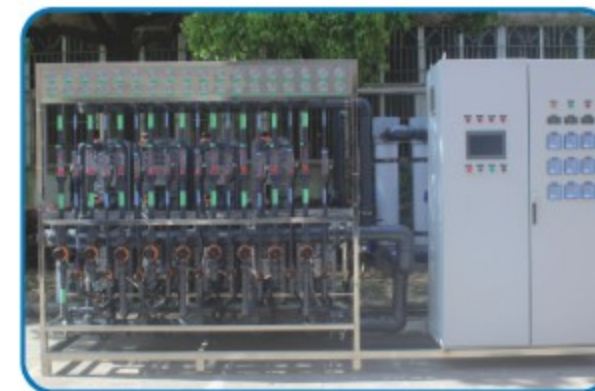
Raw water tank → raw water pump → multi-media filter → activated carbon filter → water softener processor → precision filter → 1 Level osmosis(RO) device → middle water tank → 2 Level reverse osmosis(RO) device middle → 2 level of pure water tank → EDI → Purified water tank → Pure water → pump pultraviolet sterilizer → microporus filter → water point



LF-ROII-EDI-500L(GMP)



LF-ROII-EDI-1000L



LF-ROII-EDI-45T



LF-ROII-EDI-40T

超纯水设备 Ultrapure water system

超纯水系统设备的脱盐核心部件为进口反渗透膜组件，超纯水系统设备通常由预处理部分，反渗透主机部分，后处理部分共同组成。

Desalination core parts of the ultrapure water system equipment are the imported reverse osmosis membrane components, Ultrapure water system equipment usually consists of preprocessing parts, reverse osmosis host part and the post-processing part together.

1、预处理由石英砂过滤器、活性炭过滤器、全自动软水器、精密过滤器组成，也可选用超滤系统作为预处理，但通常工程造价要高。预处理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。当原水中硬度较高时，可选择全自动软水器，这样有效的保护了反渗透膜，从而延长了反渗透膜的使用寿命。

1.Preprocessing part is composed of quartz sand filter, activated carbon filter, full-automatic water softener and the precision filter. But also can choose ultrafiltration system as pretreatment, but usually the project cost is higher. The main purpose of pretreatment is to remove the sediment, rust, colloid substances, suspended solids, chrominance, peculiar smell, biological organisms, which contained in raw water. When the hardness of raw water is higher, then can choose full-automatic water softener, therefore the reverse osmosis membrane can be protected very effective, so as to prolong the service life of reverse osmosis membrane.

2、反渗透主机主要由高压泵、膜壳、进口反渗透膜组件，在线仪表、控制电气等组成。只要膜的数量及泵的型号选型得当，反渗透主机脱盐率及产水量都能达到额定指标，出水电导率可保证在 $\leq 10\mu\text{s}/\text{CM}$ 以下，（原水电导率小于 $500\mu\text{s}/\text{cm}$ ，工作温度： $1\sim 40^\circ\text{C}$ ）

2.Reverse osmosis host is mainly composed of high pressure pump, membrane shell, imported reverse osmosis membrane module, the on-line control instrument, electrical, etc. As long as the selection of the number of membranes and pump model is proper, the reverse osmosis host desalination rate and purified water rate can reach rated index, purified water productivity ensures to be less than $10\mu\text{s}/\text{CM}$. (Raw water conductivity is less than $500\mu\text{s}/\text{CM}$, operating temperature: $1\sim 40^\circ\text{C}$)

3、后处理部分是对反渗透制取的纯水作进一步的深化处理以制取超纯水，通常是离子交换混床设备或EDI设备，根据客户要求，出水阻率可达到 $18.2\text{M}\Omega\cdot\text{CM}$ ，如果是应用在直饮水工艺上，则加上杀菌装置即可（通常为紫外线杀菌器或者臭氧发生器），从而使生产出来的水达到直饮标准。

3.Post-processing part is to do further deepening process based on the pure water which is produced by the reverse osmosis in order to produce the ultrapure water, this part usually is ion exchange mixed bed equipment or EDI equipment according to the customer's requirement, the water resistance ratio can reach to be $18.2\text{M}\Omega\cdot\text{CM}$, if it is applied in direct drinking water technology, then combined with sterilization device (usually it is ultraviolet sterilizer or ozone generator) thus the produced water can meet the standard of direct drinking.

工作原理 Working principle

- 1、水进入EDI系统，主要部分流入树脂/膜内部，而另一部分沿模板外侧流动，以吸取透出膜外的离子。
- 2、树脂截留水中的溶存离子。
- 3、被截留的离子在电极作用下，阴离子向正极方向运动，阳离子向负极方向运动。
- 4、阳离子透过阳离子膜，排出树脂/膜之外。
- 5、阴离子透过阴离子膜，排出树脂/膜之外。
- 6、浓缩了的离子从废水流路中排出。
- 7、无离子水从树脂/膜内流出。

1.The water entering the EDI system, main part into the resin/internal membrane, and the other part flow along the lateral of template, to wash away ions permeated on the outside the membrane.

- 2.The resin intercept the ions which dissolved in the water.
- 3.The trapped ion under the effect of electrode, the anion to the positive direction, cationic toward the negative direction.
- 4.Cationic through cation membrane, discharge resin/film.
- 5.Anionic through anion membrane, discharge resin/film.
- 6.The enrichment of ions from waste water flow out.
- 7.Deionized water from resin/film flow out.

产品特点 Product features

- 1、质量可靠，整体化程度高，易于扩展，增加膜数量即可增加处理量。
- 2、自动化程度高，遇故障立即自停，具有自动保护功能。
- 3、膜组件为复合膜卷制而成，表现出更高的溶质分离率和透过速率。
- 4、能耗低、水利用率高、运行成本低。
- 5、结构合理，占地面积少
- 6、先进的膜保护系统，在设备关机时，淡化水可自动将膜面污染物冲洗干净，延长膜寿命。
- 7、系统无易损部件，无须大量维修，运行长期有效。
- 8、设备设计有膜清洗系统用阻垢系统。

- 1.Reliable quality, high degree of integration, easy to expand, to increase films can increase the capacity
- 2.High operation automation, If there is a fault the system can automatic stop immediately, with automatic self-protection function
- 3.Membrane module is made by composite film coiling, show a higher solute separation rate and the permeation rate.
- 4.Low energy consumption, High water use efficiency, Low operating cost.
- 5.Rational structure, Economic Space Occupation.
- 6.Advanced membrane protection system, desalinated water can rinse clean pollutants at the membrane surface automatically when the device is powered off, thus can extend the lifespan of the membrane.
- 7.No vulnerable parts, No need a lot of maintenances, Long-term effective operation
- 8.Equipment design have membrane cleaning system with scale inhibitor system



LF-ROII-EDI-UP-500L



LF-ROII-EDI-UP-3T



LF-ROII-EDI-UP-40T



LF-ROII-EDI-UP-40T

超滤设备 Ultrafiltration system

超滤是一种能将溶液进行净化和分离的膜分离技术。超滤膜系统是以超滤膜丝为过滤介质，膜两侧的压力差为驱动力的溶液分离装置。超滤膜只允许溶液中的溶剂（如水分子）、无机盐及小分子有机物透过，而将溶液中的悬浮物、胶体、蛋白质和微生物等大分子物质截留，从而达到净化和分离的目的。

Ultrafiltration is a membrane separation technique that can let the solution to be purified and isolated. The ultrafiltration membrane system is a membrane separation technique based on the ultrafiltration membrane as the filter medium, the pressure difference on both sides of the membrane as the driving force. Ultrafiltration membrane only allows solution of the solvent (water molecules), inorganic salts and small organic molecules to get through, but the suspended solids of solution, colloids, proteins and micro-organisms and other macromolecules can be intercepted, so as to achieve the purpose of purification and separation.

超滤膜被大量用于水处理工程。超滤技术在反渗透预处理、饮用水处理、中水回用等领域发挥着越来越重要的作用。超滤技术在酒类和饮料的除菌与除浊，药品的除热原以及食品及制药物浓缩过程中均起到关键作用。

Ultrafiltration membrane is widely used in water treatment engineering. Ultrafiltration technology play an increasingly important role in reverse osmosis pretreatment, water treatment, water reuse, and other fields. Ultrafiltration technology play a key role in removing bacteria and turbidity from liquor and beverages, removing the pyrogen of the pharmaceutical, and in the process of food and drug concentration.

工作原理 Working principle

超滤是一种以筛分为分离原理，以压力为推动力的膜分离过程，过滤精度在0.005-0.1μm范围内，可有效去除水中的微粒、胶体、细菌、热源及高分子有机物质。可广泛应用于物质的分离、浓缩、提纯。超滤过程无相转化，常温下操作，对热敏性物质的分离尤为适宜，并具有良好的耐温、耐酸碱和抗氧化性能，能在60℃一下，PH为2-11的条件下长期连续使用。

Ultrafiltration is a membrane separation process which is using screening as separation principle, using pressure-driven as the driving force, to keep the filtering accuracy in the range of 0.005-0.01, which can remove particles, colloids, bacteria, heat and organic polymer material from the water effectively. Ultrafiltration can be widely used in material separation, concentration and purification. The ultrafiltration process without phase inversion, operating at room temperature, is particularly suitable for the separation of heat-sensitive material, and has good heat resistance, acid and alkali resistance and oxidation resistance, also can be workable in long-term and continuous service under the conditions of temperature below 60°C, pH is 2-11.



LF-UF-50T



LF-UF-15T

产品优点 Advantage

- 1、系统回收率高，所得产品品质优良，可实现物料的高效分离、纯化及高倍数浓缩。
 - 2、处理过程无相变，对物料中组成成分无任何不良影响，且分离、纯化、浓缩过程中始终处于常温状态，特别适用于热敏性物质的处理，完全避免了高温对生物活性物质破坏这一弊端，有效保留原物料体系中的生物活性物质及营养成分。
 - 3、系统能耗低，生产周期短，与传统工艺设备相比，设备运行费用低，能有效降低生产成本，提高企业经济效益。
 - 4、系统工艺设计先进，集成化程度高，结构紧凑，占地面积少，操作与维护简便，工人劳动强度低。
 - 5、系统制作材质采用卫生级管阀，现场清洁卫生，满足GMP或FDA生产规范要求。
1. The system's recovery rate is high, the products are with good quality, the system can realize high efficient separation and multiple enrichment of the material.
 2. No phase transition in process, No adverse effects to the composition of materials, and the separation, purification and enrichment process is always under normal temperature, especially suitable for the processing of heat sensitive material, completely avoid the disadvantages of high temperature bring damage to bioactive substances, effectively retain biological active substances in the raw material system.
 3. Low energy consumption in the system, short production cycle, comparing with the traditional process equipment, the equipment operation cost is lower, can reduce the production cost effectively, improve enterprise economic benefits.
 4. Advanced design of system process, high integrated degree, compact structure, economic Space Occupation, easy operation and maintenance, low labor intensity.
 5. Adopt the tube valve with health level in material system, the clean and health can meet the requirements or the FDA or GMP standard.



实验室超纯水机 Laboratory ultrapure water machine

“普德”实验室超纯水设备是普德公司借鉴国外先进技术,按照我国水质状况,设计开发的具有国际领先水平的实验室超纯水机,设备无需酸碱再生处理,节能环保,全自动控制,在线监测。出水水质达到或超过美国材料试验学会(ASTMI-IIISS标准),美国病理学会(CPA)和临床学会(NCCLS),中国国家实验室纯化水标准及中国国家电子级超纯水规格(GB/T11446.1)的要求。

"Buder" Laboratory ultra-pure water equipment is up, draw lessons from foreign advanced technology, according to the situation of water quality, design and development of international advanced level of laboratory ultra-pure water machine, equipment without regeneration treatment, acid-base energy saving and environmental protection, automatic control, on-line monitoring. The effluent quality reached or exceeded the American Society for testing and materials(ASTMI-IIISS), the United States of America the Pathological Society (CPA) and the clinical Society (NCCLS), China National Laboratory Standards for purified water and China National electronic grade water Specifications (GB/T11446.1) requirements.

工艺流程 Process



LF-EDI-UP-100/500L

离子交换器 Ion Exchanger

离子交换器是指采用离子交换剂,使交换剂和水溶液中可交换离子之间发生等物质规则的可逆性交换,导致水质改善,而离子交换剂的结构并不发生实质性变化的水处理方式。

Ion exchanger is a water treatment method that adopt ion exchange agent to make exchangeable ions between exchange agent and water liquor occur to the reversible exchange of equal substance amount rule to result in improvement of water quality while the structure of ion exchange agent doesn't be substantially changed.



LF-MB-8T



LF-MB-10T

中水回用设备 Water reuse system

中水回用,就是把生活污水(或城市污水)或工业废水经过深度技术处理,去除各种杂质,去除污染水体的有毒、有害物质及某些周金属离子,进而消毒灭菌,其水体无色、无味、水质清澈透明,且达到或好于国家规定的杂用水标准(或相关规定),广泛应用于企业生产或居民生活。适用于宾馆、饭店、居民小区、公寓楼宇、学校、医院、工厂区域、相关部队等单位的浇洒绿地、洒扫卫生、冲洗路、站、台、库、景观用水、消防补给水、水冷却循环补充水、冲车用水等。

Water reuse, this process is a deep processing technology. The deep treatment can remove the various impurities, poisonous of the polluted water, harmful substances and some heavy metal ions from the domestic water, (or urban sewage) sewage or industrial waste water, and then after disinfection sterilization, the water will be colorless, odorless, and clear transparent to meet or over the miscellaneous water standard (Or the relevant provisions), are widely used in the factory production or lives of residents. Apply to hotels, restaurants, residential community, apartment building, schools, hospitals, factory area, troops and other units of labor and green land, cleaning the health, flushing road station, station, library, landscape water, water supply, fire water cooling circulation water supplement, flush with water, etc

系统优点 System advantage

- 占地面积小,不受设置场合限制 Small foot print, No occasions restrictions
- 自动化程度高,易于管理 High automation, easy to manage
- 低能耗节省运行费用 low energy consumption and saving operation cost
- 剩余污泥极少,易于从传统工艺进行改造 Minimal remaining sludge, easy to transform from the traditional process
- MBR的出水水质全面由于国家已颁布或即将颁布的关于回用水的水质标准
 The MBR effluent water is superior to the water quality standard was issued by Country or the standard will be issued on reuse water.



循环水设备 Circulating water system

循环水系统的功能是将冷却水送至高低压凝气器去冷却汽轮机低压缸排汽，以维持高低压凝气器的真空，使汽水循环得以继续。循环水主要应用于冶金、石化、电力、化工、中央空调、锅炉、景观池等。

The function of the circulating water system is to send the cooling water to the high and low pressure condensable gas to cool the steam turbine exhaust steam, in order to maintain vacuum in high and low pressure condenser and to make sure to continue, Circulating water is mainly used in metallurgical, petrochemical, power, chemical, central air conditioning, boilers, landscape pool



灌装水设备 Water filling equipment

产品分类 Product category 瓶装、灌装水系统 Bottles, water filling system

灌装系统结构 Water filling system structure

主要由成品水管、储水包、升降灌装阀、定位组等组成。瓶定位后，灌装阀在气缸作用下上下运动并由瓶嘴限位控制打开及关闭。产品水经由管道，水包到灌装阀注入瓶内，可保证灌装精度及液位可调，并保证灌装密封性。

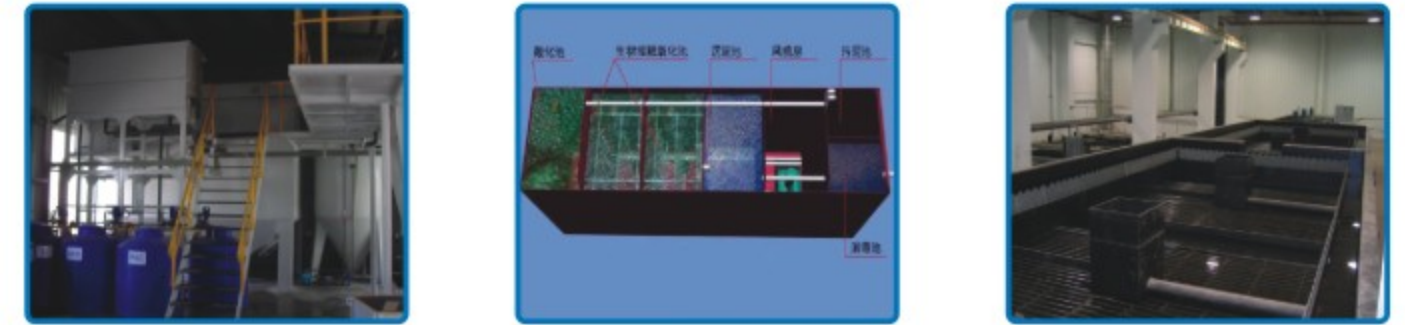
Water filling system structure is mainly consisted by finished water pipes, water storage package, up and down filling valve, After the bottle positioning, the filling machine moves up and down under the action of the cylinder and by the bottle limit control to open and close the valve. Product water through the pipe, water bag to the filling valve and then get into the bottle, can ensure filling accuracy and adjustable level, and to ensure the filling sealing.



污水处理设备 Sewage system

污水处理设备，是一种能有效处理城区的生活污水，工业废水等工业设备，避免污水及污染物直接流入水域。对改善生态环境、提升城市品位和促进经济发展具有重要意义。

Sewage treatment equipment, is a kind of effective treatment of urban sewage, industrial wastewater treatment and other industrial equipment, avoid direct sewage and pollutants into the waters, to improve the ecological environment, enhance urban grade and promoting economic development is of great significance.



埋地式污水处理设备适宜住宅小区、医院疗养院、办公楼、商场、宾馆、饭店、机关、学校、部队、水产品加工厂、牲畜加工厂、乳品加工厂等生活污水和与之类似的工业有机废水，如纺织、啤酒、造纸、制革、食品、化工等行业的有机污水处理，主要目的是将生活污水和与之相类似的工业有机废水处理达到回用水质要求，使废水处理资源化利用。

Buried sewage treatment equipment is suitable for residential areas, hospitals, nursing homes, office buildings, shopping malls, hotels, restaurants, agencies, schools, troops and aquatic product processing factory, processing plant, dairy products processing factory sewage storage and similar industrial organic wastewater, such as textile, beer, paper making, leather making, food, chemical and other industries of organic wastewater treatment, the main purpose is to similar industrial organic sewage and wastewater treatment after meet recycling water quality requirements, make the waste water treatment after recycling use.



零排放水处理设备 Zero discharge water treatment system

系统优点 System advantage

废水零排放是指工业水经过重复使用后，将这部分含盐量和污染物高浓缩成废水全部（99%以上）回收再利用，或者使用过滤设备过滤出不溶于水的物质后循环使用，无任何废液排出工厂。水中的盐类和污染物经过浓缩洁净或压滤废渣以固体形式排出厂送垃圾处理厂填埋或将其回收作为有用的化工原料。

Wastewater zero discharge is refers to the industrial water after repeated use, this part of the high salt content and pollutants concentration into waste water recycling, all(99%) or use the substance does not dissolve in water filter equipment after recycled, no liquid waste from the factory. The salts and pollutants in the water are discharged from the factory in a solid form through concentrated crystallization or pressure filtration residue to be buried or recycled as a useful chemical raw material.



应用领域 Application

电厂废水、电厂脱硫废水、印染行业废水、制药废水、食品废水、生物发酵废水、汽车废水、石油化工废水、电子行业、养殖行业等多类废水。

Power plant waste water, power plant desulfurization wastewater, printing and dyeing industry wastewater, pharmaceutical wastewater, food wastewater, biological fermentation wastewater, qutomobile wastewater, petroleum chemical industry, electronic industry and breeding industry wastewater and so on many kinds of wastewater.



海水淡化设备 Desalination system

海水淡化设备的工艺流程如下：

海水提升泵 → 源水箱 → 原水泵 → 石英砂 → 活性炭 → 保安过滤器 → 高压泵 → 海水淡化RO膜 → 能量转化装置 → UV菌器 → 淡水水箱

The desalination system process is as follows:

Seawater Lift Pump → Source Water Tank → Raw Water Pump → Quartz Sand → Activated Carbon → Secirety Filter → High Pressure Pump → Desalination RO Membrane → Energy Conversion Unit → UV Fungi → Freshwater water Tank

海水淡化系统 Seawater desalination system

海水淡化即利用海水脱盐生产淡水。是实现水资源利用的开源增量技术，可以增加淡水总量，且不受时空和气候影响，可以保障沿海居民饮用水和工业锅炉补水等稳定供水。

Desalination is the use of desalination to produce fresh water. Itis an oper source incremental technology for water resource utilization, which can increase the total amount of fresh water and not be affected by space and time and climate,so as to protect the water supply of coastal residents drinking water and industriao boilers.



软水设备 Water softener system

软化水设备，即降低水硬度的设备，主要祛除水中的钙、镁离子，软化水设备在软化水的过程中，不能降低水中的总含盐量。

Water softener system is the equipment that reduces water hardness, mainly remove the calcium and magnesium ions. Water softening equipment in water softening process won't reduce the total salt content of the water.

软水设备的应用 Water Softener System Applications

可广泛应用于蒸汽锅炉、热水锅炉、交换器、蒸发冷凝器、空调、直燃机等系统的补给水的软化。还可用于宾馆、饭店、写字楼、公寓、家居等生活用水的处理及食品、饮料、酿酒、洗衣、印染、化工、医药等行业的软化水处理。

It can be widely used for water softening in steam boilers, hot water boilers, switches, evaporative cocndensers, air conditioning, direct-fired systems. Can also be used for domestic water treatment in hotels, restaurants, office buildings, apartments, housing and accommodation, and also play a role of softened water treatment in food, beverage, brewing, washing, dyeing, softening of water treatment chemical, pharmaceutical and other industries.



变频恒压供水装置 Constant pressure water supply system

变频恒压供水系统是指在供水管网中用水量发生变化时，出口压力保持不变的供水方式。供水管网的出口压力值是根据用户需求确定的。在投资、运行的经济性、系统的稳定性、可靠性、自动化程度等方面都具有优势。

Constant pressure water supply system means water in the water supply pipe network changes, the outlet pressure remains constant water supply, Water supply pipe net work outlet pressure value is determined according to user needs. Investment, economy of operation, system stability, reliability, degree of automation have an advantage.



不锈钢设备 Stainless steel system

材质：304或316

表面有致密氧化层，耐腐蚀性能优越，密封性能好
内部和外部抛光，光洁美观、易清洗

Material: 304 or 316

Surface contains dense oxide layer, excellent corrosion resistance, good sealing performance
Internal and external polishing, bright and clean, easy to clean

机械/软化过滤



混床罐



杀菌装置 UV sterilizer



水处理配件及耗材系列

Water treatment accessories and consumables series

控制阀 Control valve

“润新” 手动控制阀 "RUN XIN" Manual control valve



“润新” 自动控制阀 "RUN XIN" Automatic control valve



进口自动控制阀 Electric/Pneumatic valve



美国富莱克阀



美国阿图祖阀



罐体 Tanks

玻璃钢罐 FRP tank

玻璃钢压力容器内衬采用食品级ABS塑料或食品级PE塑料, 以高性能树脂和玻璃钢纤维混合缠绕成, 拥有出色的强度并广泛应用于水处理各个领域。

FRP pressure vessel's lining adopt ABS or PE plastic which upto food grade, made by mix filament winding of high performance resin and glass fiber, has great strength and is widely used in water treatment fields.



应用条件 application circumstance

工作压力 ≤0.6Mpa 或 ≤1.0Mpa

工作温度 ≤49°C (120°F)

最大真空度 ≤127mmHg (5"Hg)

不应在 -27°C (-17°F) 或更低温度时储存或运输

工作介质应为水、酸、碱等化学腐蚀性液体

Pressure rating ≤0.6Mpa ≤1.0Mpa

Working temperatures ≤49°C (120°F)

Maximum vacuum ≤127mmHg (5"Hg)

Should not be in the -27°C (-17°F) or lower temperature storage or transport

Working medium should be water, acid, alkali and other chemical corrosive liquids



膜壳 Membrane shell

玻璃钢膜壳 FRP membrane shell

产品选型

4040End端口, 侧端口

压力: 300, 500, 600, 800, 1000, 1200, PSI;

长度1-5core的(元素);

外观颜色: 白色为标准配置, 可根据客户的, 可定制

技术要求

按照标准JC692-1998膜壳的制造方法;

膜壳设计压力300,450,600,800,1000,1200PSI;

允许工作温度范围: -11°C~49°C

膜壳的压力渗透测试实验使用的是实验压力是标准压力的1.5倍。

Product Selection

404 End Port, Side port

Pressure: 300,450,600,800,1000,1200PSI;

Length: 1-5core(element);

The colors of appearance: White is the standard configuration. Color can be costumized according to the requirements by customers.

Technical Requirements

According to the standard JC692-1998 membrane shell manufacturing methods;

The designed pressure of membrane shell: 300,450,600,800,1000,1200PSI;

Allowed operating temperature range: -7°C~49°C;

The Pressure infiltration test experiment of membrane shell is using the experimental pressure is standard pressure of 1.5 times.



Products:8040 Side Port, End Port

产品选型

8040Side港(包括蜂窝板), 结束端口;

压力: 300,450,600,800,1000,1200PSI;

长度: 1-7芯(元素);

外观颜色: 白色为标准配置, 可根据客户的, 可定制。

Product Selection

8040Side Port (Including cellular panels), End Port;

Pressure: 300,450,600,800,1000,1200PSI;

Length: 1-7core(element);

The appearance of colors: White for the standard configuration can be based on customer can be customized.

技术要求

压力: 300,450,600,800,1000,1200PSI;

工作温度范围: -11°C~49°C

摄取标准螺纹连接1-1, 2寸举行联合箱

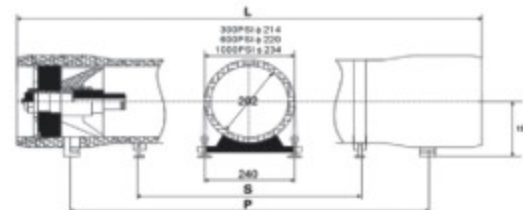
Technical Requirements

Pressure: 300,450,600,800,1000,1200PSI;

Allowed operating temperature range: -7°C~49°C

Intake standard thread connection 1-1, 2 inch hold joint hoop;

Grams of fresh customers to choose custom connetor port.



精密过滤器 Precision filter

滤芯式过滤器 Cartridge filter

精密过滤器外壳一般采用不锈钢材质制造, 内部采用PP熔喷、线绕、折叠滤芯等管状滤芯作为过滤元件, 根据不同的过滤介质及设计工艺选择不同的过滤元件, 以达到出水水质的要求。机体也可选用快装式, 以方便快捷的更换滤芯及清洗。改设备广泛应用于制药、化工、食品、饮料、水处理、酿造、石油、印染、环保等行业, 是各类液体过滤、澄清、提纯处理的理想设备。

Precision filter's shell generally adopt stainless steel material for manufacturing, internal use PP melt-blown, line, fold filter such as tubular filters as the filter element, according to the different filter medium to choose different filtering element, in order to achieve the quality requirement of the output water, The body also can choose quick mounted, used in pharmaceutical, chemical, food, beverage, water treatment, brewing, petroleum, printing and dyeing, environmental protection and other industries, It is the ideal equipment for filtering, purification and clarification of all kinds of liquid filtration.

罐体材质可分为玻璃钢、碳钢、不锈钢、也可根据用户要求制作。

Tanks materials can be divided into glass fiber reinforced plastic material, carbon steel, stainless steel, can also be produced according to customer's requirements



袋式过滤器 Bag filter

袋式过滤器是一种压力式过滤装置, 滤液由过滤器外壳的旁侧入口管流入滤袋, 滤袋本身是装置在加强网篮内, 液体渗透过所需要细度等级的滤袋即能获得合格的滤液, 杂志颗粒被滤袋拦截。该机更换滤袋十分方便, 过滤基本无物料消耗。

Bag filter is a kind of pressure type filter device, the filtrate flow into the filter bag by side inlet tube of filter shell, filter bag itself is a device in a stengthening basket netting, when the liquid penetrant the filter bag which with required fineness grade, then can obtain qualified filtrate. impruity particles will be intercepted by the filter bag. This machine change the filter bag is very convenient, no material consumption in filtration.



泵 Pump



南方立式泵 CNP VERTICAL PUMP



南方卧式泵 CNP horizontal pump



计量泵 metering pump



格兰富水泵 Grundfos pump



凌霄泵 Lx pump



变频泵 Variable frequency pump

辅助配件 Auxiliary accessories

流量计 Flow meter

分类：面板式和管道式

Classification: panel and pipeline



压力表 Pressure gauge

分类：轴式和立式

Classification: shaft and vertical



外径尺寸：40mm, 50mm, 63mm, 75mm, 100mm
 Case diameter: 1.5", 2", 2.5", 4"
 连接方法 Thread: BSP, NPT, PT(1/8", 1/4", 3/8", 1/2", 10x1, 14x1.5, 20x1.5)
 径向/轴向 BOTTOM/BACK
 等级：±1.5%~±2.5%

外径尺寸：40mm, 50mm, 63mm, 75mm, 100mm
 Case diameter: 1.5", 2", 2.5", 4"
 连接方法 Thread: BSP, NPT, PT(1/8", 1/4", 3/8", 1/2", 10x1, 14x1.5, 20x1.5)
 径向/轴向 BOTTOM/BACK
 等级：±1.6%~±2.5%
 测量范围：0-0.1~0-60Mpa

盐箱和加药箱 Brine tank and Drug tank

盐箱
 容量：15L~2000L
 Brine tank
 Capacity: 15L~2000L

加药箱
 容量：15L~2000L
 Dosing tank
 Capacity: 15L~2000L



盐箱规格尺寸

单位：mm

规格	直径	高度	总高
15L	210	430	450
25L	240	480	500
60L	330	660	700
100L	400	820	850
200L	500	850	900
300L	600	1150	1170
500L	720	1210	1250
800L	860	1250	1330
1000L	970	1300	1380
1500L	1250	1230	1400
2000L	1300	1500	1580

不锈钢配件 Stainless steel fittings



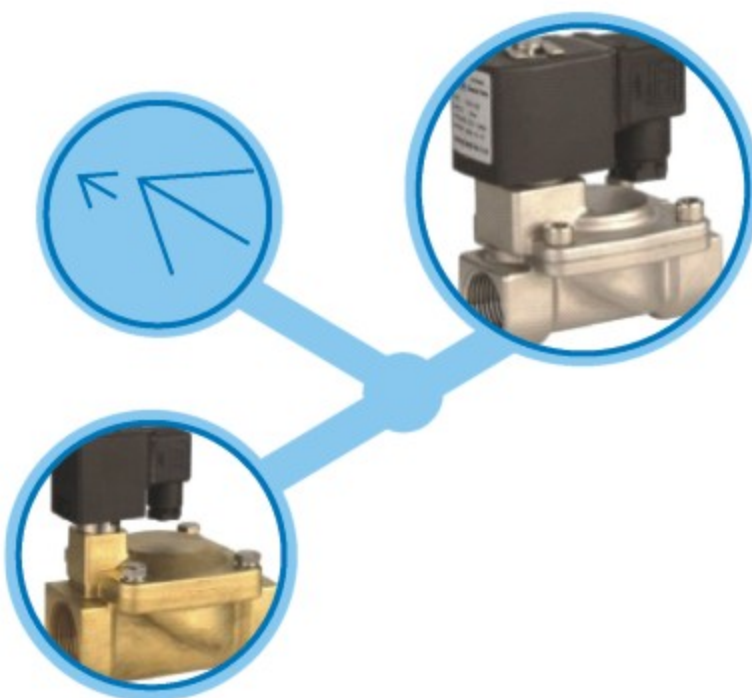
塑料配件 Plastic fittings



电磁阀 Solenoid valve

阀体: 黄铜或不锈钢SUS304
 密封件: 丁晴橡胶、三元乙丙橡胶或氟橡胶
 膜片组件: 黄铜或不锈钢
 活动、固定铁芯: 不锈钢1J117
 铁芯、膜片弹簧: 不锈钢304
 隔磁管座、管子: 不锈钢304

Body: brass or stainless steel SUS304
 Seals: NBR, EPDM or VITON
 diaphragm assembly: brass or stainless steel
 activities, fixed core: Stainless steel 1J117
 core, diaphragm spring: 304
 every magnetic tube seat tube: 304



膜 RO membrane

反渗透技术原理是在高于溶液渗透压力的作用下, 依据其他物质不能透过半透膜而将这些物质和水分离开来。反渗透膜的膜孔径非常小, 因此能够有效地去除水中的溶解盐类、胶体、微生物、有机物等。系统具有水质好、耗能低、无污染、工艺简单、操作简便等优点。

Principle of reverse osmosis technology: under the function of above the solution infiltration pressure, on the basis of other material can't through a semipermeable membrane and will separate these materials from moisture. Membrane pore size of reverse osmosis membrane is very small, so can effectively remove salt dissolved, colloid, microorganisms, organic matters, etc from water. System has advantages of good water quality, low consumption, no pollution, simple process, easy operation, etc.

应用范围 Application

反渗透膜广泛用于电力、石油化工、钢铁、电子、医药、食品饮料、市政及环保等领域, 在海水及苦咸水淡化, 锅炉给水、工业纯水机电子级超纯水制备, 饮用纯净水生产, 废水处理及特种分离过程中发挥着重要作用。

Reverse osmosis membrane is widely used in electric power, petrochemical, steel, electronics, medicine, food and beverage, municipal, and environmental protection and other fields. It plays an important role in desalination of seawater and brackish water, boiler feed water, production of industrial pure water and electronic class ultrapure water, production of drinking purified water, wastewater treatment and special separation process.



树脂 Resin

我们公司的树脂为凝胶型聚苯乙烯磺酸基阳离子交换树脂特级高纯度产品。主要用于食品, 酿造, 饮用水和食品加工中的用水。

Our resin gel-type polystyrene sulfonic acid cationic exchange resin super high purity products mainly used in the food, brewing, drinking water and food processing water



活性炭 Active carbon

本产品选用天然的椰壳和果壳为原料, 采用物理活化法精制而成, 为黑色粉末状(或粒粉状), 无毒无味, 不含对水质有不良影响的水中溶解物。具有吸附能力强, 过滤速度快, 能有效吸附液体中小分子结构和大分子结构的不良物质, 广泛应用于饮用水的提纯及工业废水、污水、江河水水质的除臭净化、深度改良。

This product is made of natural coconut shell and husk as raw materials, adopt physical activation method. It is refined black powder (or granulated powder), non-toxic tasteless, No insoluble substances in water which has adverse impacts to the water quality, Has a strong adsorption capacity, filtering speed, the effective absorption of the liquid medium and small molecular structure and macromolecular structure of undesirable substances, widely used in purification of drinking water and industrial waste water, and used in deodorant essence and improvement of sewage river water.



石英砂 Quartz sand

石英砂滤料是采用天然石英砂为原料, 经破碎, 水洗精筛等加工而成, 目前是水处理行业中使用最广泛、量最大的净水材料, 无杂质, 抗压耐磨, 机械强度高, 化学性能稳定, 截污能力强, 效益高, 使用周期长, 适用于单层、多层过滤池、过滤器和离子交换器中, 各项指标均达到(CJ/T43-1999)标准。加工有精制石英砂, 纯白石英砂, 酸处理剂, 普通石英砂, 可满足不同用户的使用需求。

常用规格: 0.5-1.0mm, 0.6-1.2mm, 1-2mm, 2-4mm, 4-8mm, 8-16mm, 16-32mm。



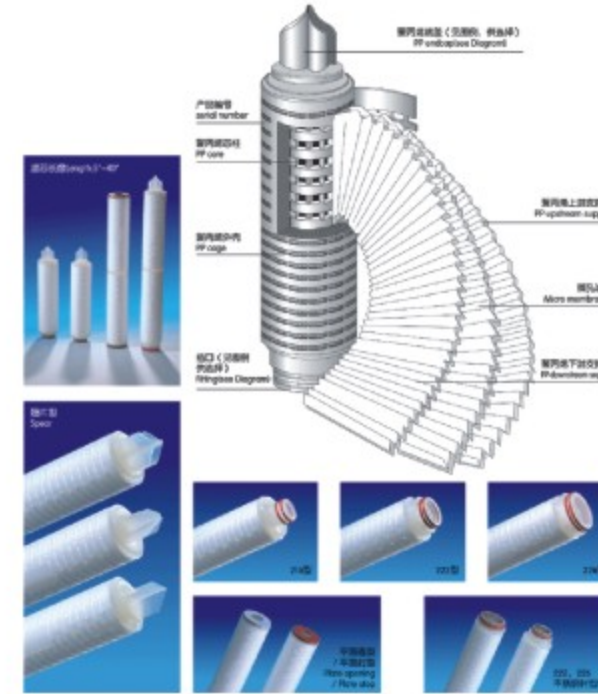
Quartz sand filter material is using natural quartz mine as raw material, after crushing, washed fine sieve, etc. So far, this water purification material which used in water treatment industry is most widely and with most quantity, no impurities, compression wear-resisting, high mechanical strength, stable chemical performance. sewage capability, high efficiency, long cycle life, suitable for single layer, double layer filter tank, the indicators have reached (CJ/T43-1999) standards in filter and ion exchanger.

Productions are refined quartz sand, white quartz sand, acid treatment, ordinary quartz sand, can meet the requirements of different user.

Commonly used specifications: 0.5-1.0mm, 0.6-1.2mm, 1-2mm, 2-4mm, 4-8mm, 8-16mm, 16-32mm.

过滤芯 Filter element

折叠式微孔膜滤芯 Cartridges



药剂 Water treatment chemicals

