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PENG RUI ENTERPRISE

BIOLOGICAL/PHARMACEUTICAL MACHINERY
EQUIPMENT/SPECIAL ALBUM
生物制药机械设备 专集

> 符合FDA标准/满足GMP要求
Accord FDA Standard/meet GMP Requirement

温州鹏睿流体科技有限公司

Wenzhou pengrui fluid technology co., LTD.

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温州鹏睿流体科技有限公司

Wenzhou pengrui fluid technology co., LTD.

以一流产品 做一流品牌

创百年企业



Business Profile

企业简介

温州鹏睿流体科技有限公司是集制药设备、乳食品饮料设备、化工设备等卫生级流体设备从设计，到服务于一体的企业。可为客户提供方案规划设计、设备制造、设备安装调试等服务。

鹏睿长期全心致力于机械工程和卫生级流体设备的研发生产。经过多年技术积累和外向合，已成功为客户提供了各种规格的《提取浓缩》成套设备，《蒸发器》《萃取设备》《CIP清洗系统》《卫生级换热器》《食品生产设备》《制药机械设备》《配液配料罐体设备》，《反应釜》及各种规格罐类设备等。

凭借先进的设备制造技术和丰富的产品加工经验，在吸收先进技术的基础上，不断改进、完善设计和加工工艺。可根据客户的发展战略及实际需要量身定做，为客户提供合理、节能、环保、优良的工程设备，及快速、满意的售后服务和产品配件的供应。鹏睿始终坚持以质量求生存，靠技术创新谋发展的经营理念，在与质量相关的控制点进行全程监控，每道工序、每个环节都严格把关，确保鹏睿产品品质。鹏睿希望在互惠互利、共同发展的基础上，与各界朋友友好合作，共同创造美好的未来！

目 录

工程实例	03-08
Tq系列多功能提取罐	09
Rh热回流（低温）提取浓缩机组	10
超声波提取罐/超声波萃取罐	11-12
TW系列小型(低温)提取浓缩机组	13
WZ单效外循环真空浓缩器	14
SJN 热泵双效节能浓缩器	15
SJN II 双效节能浓缩器	16
SJN III 双效节能浓缩器	17
QN/ZN/GN 真空浓缩器	18
JH 酒精回收塔/多功能酒精浓缩器	19
JC 酒精沉淀罐	20
WJG 针剂配液机组	22
冷热缸/配料罐/搅拌罐	23
酶解反应罐/菌种罐	24
罐体附件	25
JG 型系列发酵罐	26
CG 立式单层储罐、纯化水储罐、注射水储罐	27
GG 卧式单层储罐、纯化水储罐、注射水储罐	28
原料药反应釜、结晶罐	29
食品领域反应釜、调和罐	30
乳化系列-液压升降式真空乳化机	31
高剪切乳化罐	32
小型实验室搅拌罐/反应釜	33
巴氏板式杀菌机/管式超高温UHT杀菌机	34
列管式热交换器/螺旋板换热器	35
一体式CIP在线清洗机/全、半自动分体式CIP清洗机	36
快开式压滤器/不锈钢板框过滤机	37
TL钛棒过滤器	38
WTL 微孔膜筒式过滤器	39
系列过滤器设备	40
WP 泵	41
罐体附件	42
卫生级管道配件	43
工艺流程图	44
果醋工艺流程图	45-46

浓缩车间

Concentration workshop



工程案例

Engineering cases



配料车间

Batching workshop



食品车间

Food workshop



提取车间

Extraction workshop



饮料车间

Beverage workshop





正锥型提取罐
Normal taper type
extracting tank



直筒型提取罐
Straight tube type
extracting tank



蘑菇型提取罐
Mushroom type
extracting tank



倒锥型提取罐
Inverted cone type
extracting tank

适用范围 USE:

本设备适用于制药、生物、食品、化工等行业，常用于中草药的有效成份及芳香油的提取与浓缩，是中药生产过程中的普遍采用设备。

This machine is suitable for pharmacy, biology, food, chemical industry, often used in Chinese medicine effective ingredients and balmy oil extraction and concentration of traditional Chinese medicines, is the common equipment.

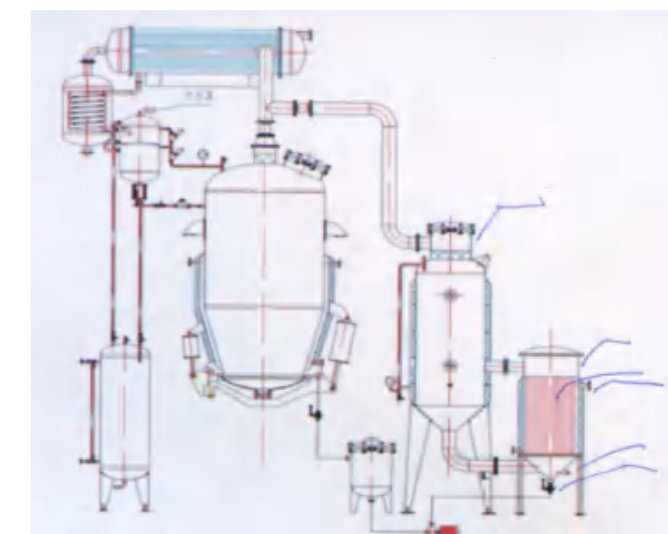
设备特点 Device characteristics:

- A. 严格按压力容器规范制作，内外精密抛光，符合GMP要求。
- B. 设备主要由主罐、消泡器、冷凝器、冷却器、油水分离器、过滤器等组成。
- C. 设备的主要形式有直筒式、正锥式、蘑菇式、倒锥式等，可根据需要装备搅拌装置。
- D. 出渣门有多种形式供用户选择，有双气缸式、多气缸式、螺旋式、齿合式。
- E. 根据客户需要可加大出液时的过滤面积，以提高生产效率。

A. Strictly according to pressure vessel code, precision polishing, make internal and external comply with GMP. B. Equipment is mainly by the cans, away PaoQi, condenser, cooler, the oil-water separator, filters etc. C. The main form of the equipment has straight tube type, is cone type, grinding, she reversed cone of such as type, can according to need equipment mixing device. D. Dregs door have Duo Zhong form for the user choice, there is double cylinder type, many cylinder type, spiral, tooth jewels. E. According to customer needs can increase when the liquid filtration area to improve production efficiency.

技术参数 Technical parameters:

规格型号 Model and specification	TQ-0.5	TQ-1	TQ-2	TQ-3	TQ-4	TQ-6	TQ-8	TQ-10
容积 (L)	600	1200	2300	3200	4300	6300	8500	11000
罐内设计压力 (Mpa)	0.09							
夹层设计压力 (Mpa)	0.3							
加料口直径 (mm)	400	400	400	400	500	500	500	500
加热面积 (m ²)	2.4	3	4.7	6.8	8	10	12	12
冷凝面积 (m ²)	3	4	5.4	8	10	10	15	18
冷却面积 (m ²)	1	1	1	1	1	2.2	2.2	3
过滤面积 (m ²)	0.25	0.25	0.25	0.25	0.25	0.30	0.30	0.30
排渣门直径 (mm)	600	800	1000	1200	1200	1400	1500	1600
耗气 (kg/h)	285	285	346	570	660	718	903	1140
耗水 (T/h)	2.1	2.1	2.5	4.2	4.5	5.5	6.7	6.7
加热汽管口 (mm)	32	32	32	40	40	50	50	50
排气管口 (mm)	100	100	100	125	125	150	150	150
冷却水管口 (mm)	40	40	40	50	50	50	65	70
电动机功率 (KW)	2.2	2.2	3	4	5.5	5.5	7.5	7.5
搅拌转速 (r/min)	36	36	36	36	36	36	36	36



技术参数 Technical parameters:

型号Mode	RH-500	RH-1000	RH-2000	RH-3000	RH-6000
提取罐容积 (L)	500	1000	2000	3000	6000
蒸发量 (Kg/H)	250	500	800	1000	2000
水提温度 (°C)	90~100				
醇提温度 (°C)	78~83				
提取时间 (H)	5~6小时/批				
真空度 (Mpa)	-0.045~-0.08				
设计压力 (Mpa)	0.09~0.3				

适用范围 USE:

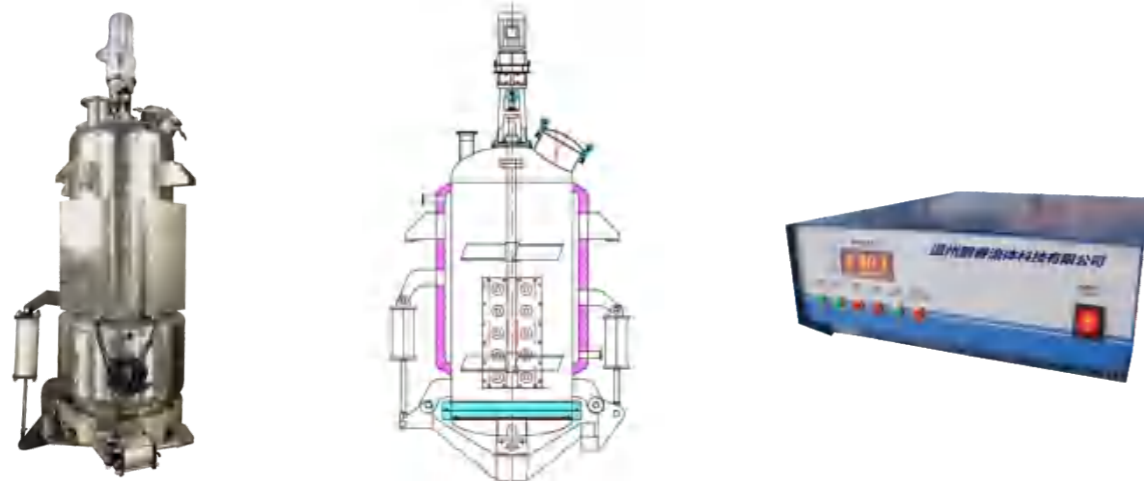
本设备适用于中草药及多种植物的有效成分提取、浓缩、溶剂回收和芳香油收集。

This equipment is suitable for extracting effective components of Chinese herbal medicine and many plants, concentration, solvent recovery and collection of aroma.

设备特点 Device characteristics:

- 1. 本设备主要由提取罐、外循环单效浓缩器及其他附属设备组成，结构紧凑，操作方便，集提取、浓缩、溶剂回收于一体。
- 2. 设备功能齐全，适用于醇提，能进行常压提取浓缩、热回流循环提取工艺操作。
- 3. 油水分离器由两个玻璃筒组成，使油水分离时间更长，分离效果更好。采用玻璃材质，便于观察。
- 4. 提取的同时，采用高位自流方式进行浓缩，蒸发的蒸馏水回到提取罐继续提取，整个回流提取浓缩过程约4-6个小时。减少蒸汽、溶剂损耗，缩短操作时间。
- 5. 回收到的高浓度溶剂，直接到酒精配制罐，给醇沉罐或提取罐当溶剂使用；稀浓度溶剂则到稀酒精贮罐。溶剂排放由控制箱控制，使其达到自动放液，减少劳动量，提高溶剂利用率。
- 6. 全套设备均采用进口SUS304不锈钢制造，全密封管道化生产，既减少了环境污染，又消除重金属及细菌的渗入，完全符合GMP要求。

1. This equipment is mainly composed of extraction tank, external loop one effect of concentrator and other ancillary equipment, compact structure, convenient operation, integrating extraction, concentration, solvent recovery.
 2. Function of equipment is complete, suitable for alcohol extraction, which can extract atmospheric concentration, hot reflux circulation extraction process.
 3. Oil-water separator is composed of two glass tube, a longer make water-oil separation and separation effect is better. Use glass material, convenient for observation.
 4. Extracted at the same time, adopts the high gravity method for enrichment, evaporation of distilled water to extract can continue to extract, the reflux extraction enrichment process about 4 to 6 hours. Reduce loss of steam, solvents and shorten the operation time.
 5. The high concentrations of solvents, to match can directly to alcohol for alcohol sink tank or solvent extraction tank when using: Dilute concentration solvent to dilute alcohol to dilute alcohol storage tank. Solvent emission is controlled by a control box, to the automatic liquid, reduce the labor, improve the utilization rate of the solvent.
 6. A full set of equipment adopt imported SUS304 stainless steel, fully sealed pipelining production, both to reduce the pollution of the environment, and to eliminate heavy metal and bacteria of infiltration, full compliance with GMP requirements.



适用范围 Scope of application:

此设备可动态连续超声波提取，同时可配套机械专为学校和科研单位使用而开发的大容量不锈钢旋转蒸发仪，对超声波提取机提取的药液进行浓缩处理，该设备可直接将药液浓缩到浸膏状态。此套设备非常适用于高校、研究所和企事业单位实验室研发部门及制药厂多品种、小批量生产使用。超声波提取（也称为萃取）以其提取温度低、提取率高、提取时间短的独特优势被具有创新意识者应用于中药材和各种动、植物有效含量的提取，是替代传统剪切工艺方法实现高效、节能、环保式提取的现代高新技术手段。

This equipment can be used for dynamic continuous ultrasonic extraction. At the same time, it can be equipped with a large capacity stainless steel rotary evaporator specially developed for schools and scientific research institutions to concentrate the medicine extracted by the ultrasonic extraction machine. The equipment can directly concentrate the liquid medicine to the state of extract. This set of equipment is very suitable for universities, research institutes, enterprises and institutions, laboratory R & D departments and pharmaceutical factories for multi variety and small batch production. Ultrasonic extraction (also known as extraction) with its unique advantages of low extraction temperature, high extraction rate and short extraction time has been applied to the extraction of effective content of Chinese medicinal materials and various animals and plants by innovative people. It is a modern high-tech means to replace the traditional shearing process to achieve efficient, energy-saving and environmental protection extraction.

设备特点 Equipment features:

1. 提取效率高：超声波独特的物理特性能促使植物细胞组织破壁或变形，使中药有效成分提取更充分，提取率比传统工艺显著提高高达50—500%；
2. 提取时间短：超声波强化中药提取通常在24—40分钟即可获得最佳提取率，提取时间较传统方法大大缩短2/3以上，药材原材料处理量大；
3. 提取温度低：超声提取中药材的最佳温度在40—60℃，对遇热不稳定、易水解或氧化的药材中有效成分具有保护作用，同时大大节能降耗；
4. 适应性广：超声提取中药材不受成分极性、分子量大小的限制，适用于绝大多数种类中药材和各类成分的提取；
5. 提取药液杂质少，有效成分易于分离、纯化；
6. 提取工艺运行成本低，综合经济效益显著；
7. 操作简单易行，设备维护、保养方便。

1. High extraction efficiency: the unique physical characteristics of ultrasound can promote the cell wall breaking or deformation of plant tissue, so that the effective components of traditional Chinese medicine can be extracted more fully, and the extraction rate is significantly increased by 50-500% compared with the traditional technology;

2. Short extraction time: the best extraction rate can be obtained in 24-40 minutes by ultrasonic wave. The extraction time is greatly shortened by more than 2/3 compared with the traditional method, and the processing capacity of raw materials is large;

3. Low extraction temperature: the optimal temperature for ultrasonic extraction of Chinese herbal medicines is 40-60 °C, which can protect the active ingredients in Chinese herbal medicines which are unstable in heat, easy to hydrolyze or oxidize, and save energy and energy greatly;

4. Wide adaptability: ultrasonic extraction of Chinese medicinal materials is not limited by the polarity and molecular weight of components, and is suitable for the extraction of most kinds of Chinese herbal medicines and various components;

5. There are few impurities in the extracted liquid, and the effective components are easy to be separated and purified;

6. The operation cost of extraction process is low and the comprehensive economic benefit is remarkable;

7. The operation is simple and easy, and the equipment maintenance is convenient.

提取率提高50%—500%；提取时间（分钟）缩短2/3以上；提取温度为40—60℃，保护有效成份国家中药现代化工程技术研究中心在超声波提取中药材工艺方面，已做过多种药材、复方和多种化学万分如黄酮类、皂苷类、萜醌类、香豆素木脂素类、生物碱类的超声波提取与传统提取方法的比较，确定中药材浸出率与超声时间、功率、频率的关系，溶媒浓度与浸出率的关系等，建立最佳工艺条件，并积累了宝贵的一手资料。THCG系列超声提取罐是在原来的提取罐基础上高的超声波提取新技术，它分为内置式和外置式两种。在动植物提取中，超声循环提取技术已被广泛应用。超声波提取是利用超声波的空化效应增加溶剂穿透力，提高药物溶出速度和溶出次数，从而增加物质成份的扩散，缩短提取时间，加速提取过程。

The results showed that the extraction rate was increased by 50% - 500%; the extraction time (min) was shortened by more than 2/3; the extraction temperature was 40-60 °C; the National Research Center for modern engineering and technology of traditional Chinese medicine has made a variety of medicinal materials, compound compounds and various chemicals, such as flavonoids, etc The ultrasonic extraction of saponins, terpenoid quinones, coumarins, lignans and alkaloids was compared with the traditional extraction methods. The relationship between the extraction rate and ultrasonic time, power and frequency, and the relationship between solvent concentration and extraction rate were determined. The optimal process conditions were established and valuable first-hand information was accumulated. Thcg series ultrasonic extraction tank is a new ultrasonic extraction technology based on the original extraction tank. It can be divided into two types: internal and external. In animal and plant extraction, ultrasonic cycle extraction technology has been widely used. Ultrasonic extraction is to use the cavitation effect of ultrasound to increase the penetration of solvent, improve the dissolution rate and dissolution times of drugs, so as to increase the diffusion of material components, shorten the extraction time and accelerate the extraction process.

技术参数 Technology parameter

参数 型号	CS-500	CS-1000	CS-2000	CS-3000	CS-6000
提取容积 (L)	500	1000	2000	3000	6000
蒸发量 (KG/H)	230	450	750	900	1800
水提温度 (°C)	80-90				
醇提温度 (°C)	55-80				
提取时间 (H)	1--6小时/批				
真空度	0.755				
设计压力	-0.09--0.3				
超声功率 (KHZ)	28/40/60				



实验型全自动多功能提取浓缩机组
Small automatic
Extraction enrichment units



小型电加热提取浓缩机组
Small extraction
Enrichment units



微型多功能提取浓缩机组
The micro extraction
Enrichment units

适用范围 USE:

本设备适用于中草药及多种植物的有效成分提取、浓缩，可实现溶剂回收及芳香油收集。特别适合医院、药厂、科研单位研制产品及小批量生产。

This equipment is suitable for extracting effective components of Chinese herbal medicine and many plants, concentration, which can realize the solvent recovery and aromatic oil collection. Especially suitable for hospitals, pharmaceutical factories, scientific research units to develop products and small batch production.

设备特点 Device characteristics:

1. 本设备具有占地面积小、制作精致、配套齐全、操作方便等优点，特别适合于小批量、多品种的生产方式。
2. 本设备配备：真空泵、药液泵、过滤器、受液槽、控制柜等配套附件，设备分为蒸汽加热和电加热，设备购买后只需接上水、电或蒸汽后即可使用。
3. 设备功能齐全，适用于水提和醇提，能进行常压和负压提取并且可以回收挥发油，配置真空转换器及控制箱，操作方便，可实现常温提取低温浓缩；常温提取常温浓缩；低温提取低温浓缩等工艺要求。
4. 电加热结构设计先进、高效、安全、加热和降温快捷、加热均匀，罐上配有安全减压装置，确保使用安全。
5. 可以实现回流提取工艺，减少提取浓缩时间，节省溶媒。
6. 独特的油水分离器设计，集真空转换功能于一体，使油水分离效果更好，采用玻璃材质，便于观察。

1. This equipment has the cover an area of an area small, elaborate, complete equipments, the advantages of convenient operation, especially suitable for small batch and many varieties of production mode.
2. This equipment is equipped with vacuum pump, liquid pump, filter, the liquid tank, control cabinet and other supporting attachments, divided into steam heating and electric heating equipment, equipment purchase after just can use after water, electricity or steam on.
3. The equipment function is all ready, is suitable for the water extraction and alcohol extraction, can extract atmospheric pressure and negative pressure and recovery of volatile oil, configure vacuum converter and control box, easy to operate, which can realize the normal temperature to extract low temperature concentration; Room temperature extraction temperature enrichment; Technological requirements of low temperature extraction enrichment at low temperature, etc.

技术参数 Technical parameters:

型号Mode	HWT-30	HWT-50	HWT-100	HWT-200	HWT-300
提取罐容积(L)Volume	30	50	100	200	50
夹层压力(Mpa)Jacket pressure	≤0.2				
罐内压力(Mpa)Work pressure	常压				
罐内真空度(Mpa)Vacuum degree	0.08				
蒸汽耗量(Kg/H)Stream cost	42	65	110	180	260
总功率(KW)Total power	2.57	2.57	3.37	3.55	4.55

WZ单效外循环真空浓缩器

WZ SERIES OF SINGLE PURPOSE EXTERNAL CYCLING VACUUM CONTRACTOR

设备说明

单效外循环真空浓缩器，由加热器、蒸发器、除沫器、冷凝器、冷却器、受液罐等组成，凡与物料接触部件均采用不锈钢制作，本装置适用于制药、食品、化工、轻工等行业液体物料的蒸发浓缩。本设备浓缩时间短，蒸发速度快，能较好地保持热敏性物料不致破坏。

Equipment descriptions

The single-effect external circulation vacuum concentrator is composed of heater, evaporator, defoamer, condenser, cooler and liquid receiving tank. The parts that contact materials are all made of stainless steel. The equipment is applicable to evaporation and concentration of liquid materials in pharmacy, food, chemical industry and light industry etc. industries. The concentrating time is short and the evaporating speed is high, which can better protect the heat sensitive materials from being damaged.



WZH单效外循环真空浓缩回收器
WZH single effect external circulation
Vacuum recovery concentrator



WZ单效外循环真空浓缩器
WZ single effect external circulation
vacuum concentrator



WZS单效外循环真空浓缩回收器(自动防爆型)
WZ single effect external circulation
vacuum cream reclaim concentrator

系列单效蒸发器有三种型式

- 一、WZ单效外循环真空浓缩器为普通型，用于水溶液的蒸发。
- 二、WZH单效外循环真空浓缩回收器为酒精回收型，用于酒精溶液的蒸发，较大的冷凝冷却面积，确保酒精回收，回收浓度达到70~85°，酒精损耗率<5%，酒精回收后温度<40°C。
- 三、WZS单效外循环真空浓缩回收器，用于单效蒸发及收浓膏。在单效正常蒸发后，关闭加热室与蒸发室连接管及循环管的阀门，将料液全部进入蒸发室，通过蒸发室的夹层加热，进行常压式减压浓缩，提高物料的浓缩比重至1.35-1.45。

The series of single-effect evaporators have three forms

- I. WZ single effect external circulation vacuum concentrator is the ordinary type, which is used for evaporation of water solution.
- II. WZH single-effect external circulation vacuum recovery concentrator is the alcohol recovery type, which is used for evaporation of alcohol solution. It has higher cooling area to ensure the alcohol recovery. Its recovery strength reaches 70~85°, the alcohol consumption rate is less than 5% and the alcohol temperature after the recovery is less than 40°C.
- III. WZS single-effect external circulation vacuum ointment collection concentrator is used for single-effect evaporation and thick ointment collection. After the normal single-effect evaporation, the valves connecting the spraying tube and circulating tube in the heating chamber and evaporating chamber will be closed. The liquid materials will fully enter the evaporating chamber and through the jacket heating in the evaporating chamber, normal pressure type or pressure relief type concentration will be carried out. The concentration, specific gravity of materials will be increased to 1.35-1.45.

注：根据客户要求推出防爆型全自动型浓缩器，全程温度控制、真空自动调节、液位控制及自动排水等并能时时记录保存数据
Note: The explosion-proof type automatic concentrator is developed according to customer requirements. The whole-course temperature control, vacuum automatic adjustment, liquid level control and automatic water discharging can be realized and data can be recorded and saved in a real-time manner.

技术参数 Technology parameter

型号规格Model and specification	WZ-500	WZ-1000	WZ-1500	WZ-2000
蒸发量 Evaporating capacity(kg/h)	500	1000	1500	2000
回收酒精浓度 Recycled alcohol density(%)	80~85			
蒸汽压 Steam pressure(Mpa)	0.03~0.09			
真空度 Vacuum degree(MPa)	-0.05~-0.08			
蒸发室容积 Evaporating room area(m³)	1.0	1.5	2	2.5
受液槽容积 Liquid receiving volume(m³)	0.3	0.5	0.8	1.0
耗汽 Steam cost(Kg/h)	520	1050	1550	2100
耗水 Water cost(T/h)	7	10	15	20
加热蒸汽口 Heating steam inlet(mm)	40	50	80	100
冷却水进出口 Cooling water inlet and outlet(mm)	40	50	65	80

适用范围: 适用于热敏性物料的低温真空浓缩, 尤其适用于中药、西药、淀粉糖等水溶液的浓缩。

工作原理: 通过热泵将一效二次蒸汽压缩后再提供一效加热, 从而大量节约蒸汽的消耗量, 降低生产成本。

设备组成: 一效加热器、一效蒸发室、热泵、二效加热器、二效蒸发室、冷凝器、受液罐、系统内管件阀门一套。

温度指标: 生蒸汽压力0.5~0.7MPa; 一效加热温度90°C; 一效蒸发温度75°C; 二效加热温度75°C; 二效蒸发温度55°C。

蒸汽消耗量: 汽水比为0.33-0.37kg汽/kg水, 比不带热泵双效浓缩器节能约34%, 节约为30%。

Application range: applicable to low temperature vacuum concentration of heat sensitive materials, especially applicable to concentration of traditional Chinese medicine, western medicine, starch sugar and other water solution.

Working principle: After being compressed through hot pump, the first-effect secondary steam is supplied to the first-effect heating, so that large amount of steam is saved and production cost is reduced.

Equipment composition: first-effect heater, first-effect evaporation chamber, hot pump, second effect heater, second-effect evaporation chamber, condenser, liquid receiving tank, a set of pipe and valve in the system.

Temperature index: live steam pressure. 0.5~0.7MPa; first-effect heating temperature 90°C; first-effect evaporation temperature 75°C; second-effect heating temperature 75°C; second-effect evaporation temperature 55°C.

Steam consumption: The steam-water ratio is 0.33-0.37kg steam/kg water. It can save 34% energy and 30% water than the dual-effect concentrator without hot pump.

技术参数 Technology parameter

项目	单位	带热泵中药双效浓缩装置 Tradotopmal Chinese medicine dual-effect concentrating device provided with hot pump	带热泵中药双效浓缩装置 Ordinary traditional chinese medicine dual-effect concentrating device	
高压引射蒸汽压力 High pressure ejection steam pressure	Mpa	0.5~0.6	0.1~0.25	
热能压缩机噪声 Noise of hot energy compressor	dB(A)	80~85		
理论汽水比 Theoretical steam-water ratio	kg汽/kg水	0.30	0.50	
实际运行汽水比 Actua steam-water ratio	kg汽/kg水	0.33~0.35	0.65~0.75	
第一次	壳程真空度 Shell side vacuum degree	MPa	0.040~0.030	
	加热蒸汽温度 Heating steam temperature	°C	85~90	
	蒸发室真空度 Evaporation chamber vacuum degree	MPa	0.068~0.060	
	沸点 Boiling point	°C	70~75	
第二次	壳程真空度 Shell side vacuum degree	MPa	0.068~0.060	
	加热蒸汽温度 Heating steam temperature	°C	70~75	
	蒸发室真空度 Evaporation chamber vacuum degree	MPa	0.089~0.082	
	沸点 Boiling point	°C	52~57	
各效加热室凝结水排出方式 Discharging method of condensed water in chambers of various effects		等压排水串级自蒸发, 可回收凝结水部分热量。 With isopiestic pressure water discharging serial self-evaporation, some heat of the condensed water can be recycled.		
冷却水量 Cooling water volume	进入温度25出水温度35 Water inlet temperature 25 water outlet temperature 35	°C	取此装置冷却水量为1 The cooling water volume of the device is taken as 1.	相同蒸发量, 冷却水量为1.43 Under same evaporation, the cooling water volume is 1.43.
操作性 Operability		操作简便, 调整及观察容易 Simple operation and adjustment and easy observation	操作简便, 调整及观察容易 Simple operation and adjustment and easy observation	
经济性 Economical efficiency		占地面积小, 设备造价较高, 使用成本低, 适合热敏性物料 Small land area, higher equipment cost and low using cost Suitable for heat sensitive materials	占地面积小, 设备造价低, 使用成本高 Small and area, lonwer equipment cost and high using cost	
增加设备投资成本 Increasing equipment investment csot		1.50	以此项成本为1 Taking the cost of the item as 1	



用途

本浓缩器适用于中药、西药、淀粉糖、乳制品等液料的浓缩, 尤其适用于热敏性物料的低温真空浓缩。

设备特点

- 1、节能效益, 按SJN II-1000型计算, 年节约蒸汽2500吨左右, 节约水7万吨左右, 节约电6万度左右, 折人民币8-10万元, (与单效对比)
- 2、本浓缩器采用负压外加热自然型循环式的蒸发方式, 蒸发速度快, 浓缩比重大, 可达1.1-1.3 (一般中药浸膏)。
- 3、本浓缩器采用同时蒸发, 二次蒸汽得到使用, 耗能总量与单效浓缩器相比降低40%, 一年的节能费可收回本浓缩器的全部投资。
- 4、多功能操作特点: (1) 可回收酒精浓度80%左右; (2) 一效、二效可以反复并锅收膏; (3) 可以间歇、连续进料。
- 5、本浓缩器与物料接触部位均采用不锈钢制作, 符合GMP要求。外形美观, 加热器、蒸发器外均设有保温, 保温外用不锈钢板制作外壳, 表面做镜面或亚光处理。

根据客户要求我们推出一效带收膏型的二效节能浓缩器, 在正常浓缩过程, 关闭一效加热室与蒸发室连接喷管及循环管的阀门。将物料进入一效蒸发室并通过二效蒸发室的夹套加热, 在一效蒸发室内进行常压浓缩或减压浓缩, 以获得较高比重(1.35-1.45)的浓缩膏。

技术参数 Technology parameter

型号规格 Model and specification	SJN II 500	SJN II 1000	SJN II 1500	SJN II 2000	SJN II 3000	
最大蒸发量 Max evaporating capacity (kg/h)	500	1000	1500	2000	3000	
蒸汽耗量 Steam cost (kg/h)	≤250	≤500	≤750	≤1000	≤1500	
水耗量 (T/h) Water cost	6	12	15	18	25	
蒸汽管口 Steam pipe orifice (mm)	40	50	50	65	80	
外形尺寸 Dimension (mm)	长 L	4000	5000	6500	5500	6800
	宽 W	1500	1700	1800	2000	2000
	高 H	3300	3500	4000	4200	4500
蒸发温度 Evaporating temperature (°C)	一效 First effect	80-90				
	二效 Second effect	55-70				
设计压力 Designed pressure (MPa)	0.09					
真空度 Vacuum degree (MPa)	一效 First effect	-0.04				
	二效 Second effect	-0.06				
浓缩比 Condensing ratio	1.1-1.3					



用途

本浓缩器适用于中药、西药、葡萄糖、淀粉、味精、食品、化工等液体料的浓缩，尤其适用于热敏性物类的低温真空浓缩。

设备特点

- 1、本浓缩器严格按《外加热式中药三效蒸发器》(Gb155773-1995)设计、制造、检验，并符合卫生部药品生产质量管理规范(GMP)中有关设备条文的要求与物料接触部位均采用SUS304或SUS316L不锈钢制造。
- 2、各加热室列管、冷凝器列管、中间连接管道均采用ISO标准内外抛光处理镜面管保证物料畅通流动无阻碍加热室无结焦堵塞现象减少结垢及清洗次数提高生产效率。
- 3、各加热室、蒸发室内表面圆角过渡无死角焊缝均打磨处理表面抛光至Ra≤0.4μm 特别是蒸发室物料进口开口位置及方位经严格计算,保证蒸发循环物料离心旋转切入蒸发室后沿蒸发室内表面螺旋旋降而不重力沉降,从而确保蒸发能力的提高。
- 4、本浓缩器采用外加热自然循环与负压蒸发方式具有蒸发速度快，浓缩比重大密闭收膏。

5、本浓缩器采用效同时蒸发,二次蒸汽得到反复使用,既节省了锅炉的投资,又节约能源消耗,耗能量与其他浓缩器相比降低70%，不到年可从节能费中收回本浓缩器的全部投资(与单效对比)。

6、多功能操作特点:(1)可以回收酒精浓度80。左右,(2)三效可以浓缩三种不同的物料,(3)一效、二效、三效、一效可以反复并锅收膏,(4)可以间歇或连续进行料浓缩,(5)可以一次成膏,由第一效进料,经过第二效、第三效出来已一次成膏。

7、本浓缩器物料在密封中无泡沫状态下进行浓缩,不易跑料,减少污染,当天物料当天浓缩完毕,不易结焦,清洗方便,打开加热器上下盖即可清洗,并节约劳动力,一个人即可操作。

技术参数 Technology parameter

型号规格Model and specification	SJN III 500	SJN III 1000	SJN III 1500	SJN III 2000	SJN III 3000	SJN III 5000
最大蒸发量Max evaporating capacity(kg/h)	500	1000	1500	2000	3000	5000
蒸汽压Steam pressure (MPa)						
蒸汽耗量Steam cost(kg/h)	≤200	≤400	≤600	≤800	≤1200	≤2000
冷却水耗量Cooling water cost(T/h)	5	10	13	15	18	25
外形尺寸Dimension(mm)	长 L	5000	6500	7000	7500	8000
	宽 W	1300	1500	1700	2000	2000
	高 H	3000	3300	3500	4000	4000
	真空度Vacuum degree(MPa)			蒸发温度Evaporating temperature (°C)		
一效First effect	-0.04			85		
二效Second effect	-0.06			75		
三效Third effect	-0.08			65		



QN 球形真空浓缩器
QN SPHERICAL CONCENTRATOR



ZN型 真空减压浓缩器
ZN VACUUM VACUUM CONCENTRATOR



设备特点Device characteristics:

本设备适用于制药、食品、化工等行业对料液的浓缩、蒸馏、回收有机溶剂等工艺。由于采用减压浓缩，故而浓缩时间短，对热敏性物料不会破坏其有效成份。

本设备主要由浓缩罐主体、冷凝器、汽液分离器、受液桶四个部分组成本设备与物料接触部分均为0Cr18Ni19不锈钢制造，具有良好的耐腐蚀性能，经久耐用，并符合药品卫生要求。

This equipment is suitable for pharmaceutical, foodstuff, chemical and other industries of material liquid concentration, distillation and recycling the organic solvent, etc. As a result of reduced pressure concentration, and concentration time is short, for heat-sensitive materials won't destroy the effective ingredients.

This equipment is mainly composed of concentrator subject, condenser, liquid separator, the liquid barrel of four parts, the equipment and material contact parts made in 0Cr18Ni19 stainless steel, and has good corrosion resistance, durability, and conform to the requirements of the drug and health.

技术参数 Technology parameter

型号Mode	QN-300	QN-500	QN-700	QN-1000
参数Parametes				
容积(L)Volume	300	500	700	1000
蒸发量(Kg/h)Evaporation	70	120	145	195
设计压力(Mpa)Design pressure	≤0.3Mpa			
真空度(Mpa)Vacuum pressure	-0.04Mpa~-0.08Mpa			
加热面积(M²)Heating area	1.1	1.6	2.7	3.1
冷凝面积(M²)Cooling area	3	6	8	10
设备重量(Kg)Weight	380	450	630	950
外形尺寸(M)Size	1.9*1.1*2.3	2.1*1.2*2.5	2.2*1.3*2.5	2.4*1.5*2.6

设备特点Device characteristics:

本设备采用的刮板桨叶与罐筒配合可选用球形或锥形，罐体采用夹套结构加热，冷凝器为列管式，冷却器为蛇管式，设备外壳哑光，生产过程符合药品生产GMP质量标准。搅拌蒸发，浓缩效果好，适用于高粘度状态物料的传热蒸发浓缩。

This equipment adopts the scraper blade and can cooperate can choose spherical or conical tube, USES the heating jacket structure of tank, the condenser is tubular, cooler is coiled tube type, equipment enclosure matte, the production process in accordance with GMP pharmaceutical production quality standards. Mix evaporation and concentration effect is good, is suitable for the evaporation concentration of heat transfer in the state of high viscosity material.

技术参数 Technology parameter

型号规格Model and specification	QN-300	QN-500	QN-800	QN-1000	QN-1500	QN-2000
蒸发量Evaporating capacity(kg/h)	70	120	145	195	250	350
容积Volume(L)	300	500	800	1000	1500	2000
球内径Ball inner diameter(mm)	800	1000	1200	1300	1450	1600
蒸汽压Steam pressure(MPa)	0.15					
真空度Vacuum degree(MPa)	-0.05~-0.08					
加热面积Heating area(m²)	1.2	1.6	2.3	2.6	3.3	4
冷凝面积Condensing area(m²)	3.9	5	5.8	8.2	11	16
外形尺寸Dimension(mm)	1900x1100x2300	2030x1200x2500	2100x1300x2500	2335x1520x2765	2500x1700x2900	2750x1800x3100
耗水Water cost(T/h)	5	5	8	8	10	12
蒸汽进口Steam inlet(mm)	32	32	32	40	40	40
水进出口Water inlet and outlet(mm)	32	32	40	40	50	50



JH酒精回收塔
JH ALCOHOL RECOVERY TOWER



多功能酒精浓缩器
ALCOHOL CONCENTRATOR

用途Usage

本装置适用于制药、食品、轻工、化工等行业的酒精回收，以利于降低生产成本，提高经济效益，本装置可将30%-50%的稀酒精蒸馏到90%-95%，成品酒精度要求高，可加大回流比，但相应成品产量降低，排放残液含醇度： $\leq 0.1\%$ ，是回收酒精的专业设备。

The device is suitable for alcohol recovery in pharmacy, food, light industry, chemical industry and etc., with the aim to reduce production cost and enhance economic benefit. The device can distill the thin alcohol of 30-50% to 90-95%. If the requirements to the finished alcohol strength is high, the reflux ratio can be made higher, but the output of finished products will be correspondingly reduced. The alcohol content of discharged residual liquid is less than or equal to 0.1%. It is a device specially for alcohol recovery.

设备特点Device characteristics:

本设备由塔釜、塔身、冷凝器、冷却器、缓冲罐、高位贮罐六个部分组成，与物料接触部分均采用优质不锈钢SUS304或SUS316L制造，具有良好的耐腐蚀性能，外表面亚光处理，符合GMP医药标准，本装置可将30度~50度的稀酒精蒸馏到93度~95度，残液排放含醇度低，并且具有节能、环保、降低生产成本、提高效率的优点。

This equipment by column reactor, minus its ,condenser, cooler, buffer tank high storage tank, six parts, parts contacted with material using high quality stainless steel SUS304 orSUS316L manufacture, has good corrosion resistance, inferior smooth processing, on the surface of the GMP standard, this device can will be 30 degrees~50 degrees thin alcohol distillation of to 93 degrees to 95 degrees, residual liquid containing alcohol degrees, low emissions and energy saving, environmental protection, to reduce production cost and improve the efficiency of the advantages.

技术参数 Technology parameter

型号规格Model and specification	JH-200	JH-300	JH-400	JH-500	JH-600	JH-800	
塔体直径Tower body diameter(mm)	200	300	400	500	600	800	
塔身高度Tower body height(mm)	6000	7000	7500	9000	9000	11500	
塔釜容积Tower volume(L)	640	1220	1450	2300	2500	3200	
回收能力Recycling capacity(kg/h)	50~60	90~100	180~200	280~320	380~440	600~650	
填料形式Material filling form	不锈钢波纹填料						
回收浓度Recycling density(%)	≥ 90						
外形尺寸Dimension(mm)	长 L	2.3	2.6	2.5	3	3.5	4.2
	宽 W	0.7	0.8	1	1.2	1.4	1.8
	高 H	7.3	8.5	9	11	11.5	14



设备特点

本设备是由附夹套的椭圆封头。锥形底的圆筒体内安装三叶式搅拌以及特殊的微调旋出液管等组装而成中药水煎浓缩采用加入酒精配成一定醇度的液体然后常温低温冷冻沉降进行液固分离,以提高中药提取液的纯度及澄明度。本设备全部选用不锈钢SUS304制造,配有高压水自动喷淋清洗系统,夹套中可通低温冷却水,传动部位采用机械密封、防爆电机确保生产安全符合GMP医药标准,设备表面镜面或亚光处理。

Equipment characteristics

The device includes the ellipse seal head with clip sleeve, taped -shaped base of cylinder, inner-installed three paddle miller and special finelyregulated revolve-out liquid pipe,tec.The mode for water-decocting and concentration of China traditional drug as follow. First fill the alcohol to form mixture,secondly under low temperature freeze to make deposition to separate the solid from the liquid to improve the purity and cleanness of the extraction liquid of Chinese traditional drug. The device is made of stainless steel of SUS304.The high pressure automatic spray & cleaning system is available.It is available to fill the low temperature of cooling water through the clip sleeve. The mechanical seal in the transmission part and the explosion-proof motor can ensure the security of the production process,meeting with the GMP standard. The surface is treated with surface mirror or darkness treatment.

技术参数 Technology parameter

型号规格Model and specification	JC-300	JC-500	JC-1000	JC-1500	JC-2000	JC-3000	JC-6000
容积Volume(m³)	0.3	0.5	1.0	1.5	2.0	3.0	6.0
换热面积Heat exchanging area(m²)	1.8	3.0	4.5	6.5	7.5	8.5	13
工作温度Working temperature(°C)	常温~-15						
夹套设计压力Jacket designed pressure(MPa)	0.09~0.4						
罐内压力Pressure inside pot(MPa)	常压						
搅拌功率Agitator motor(KW)	0.75	0.75	1.5	2.2	2.2	3.0	5.0
搅拌转速Agitator rotary speed(r/min)	72	72	72	72	72	72	125
外形尺寸Dimension(mm)	内径Inside diameter	600	800	1000	1200	1300	1600
	外径Outside diameter	800	1000	1200	1400	1500	2000
	高Height	900	1350	1700	2200	2700	2900

用途Usage

本设备适用于中药、口服液、食品、保健品、化工等的酒精沉淀,酒精沉淀罐系醇沉(亦称换溶或醇杆)旧工艺开发的专用设备,主要用于中药水煎液浓缩后浓缩进行冷冻灌温酒精沉淀的操作,也可用中药提后浓缩液进行水沉淀的操作。

The equipment is suitable for alcohol sediment in Chinese medicine, aoral liquid, foodstuff, health-protective products and chemical industry. Alcohol sediment is developed from traditional technology, maily used for freeze Chinese medicine liquid geing fried and condensed or to operate warm alcohol sediment, also can be used to operate water sediment after Chinese herbs being extracted.



Tanlet容器，以专业打造无菌状态

Tanlet vessels, creating aseptic status through specialization

鹏睿精益求精的生产细节

1、本公司的产品自订单下达后采购过来的钢板与水泥地面是不接触的，从下料、抛光成型等各工序均用木板或胶垫支撑，这样可保护钢板表面不受破坏，否则一旦划伤会增加抛光工作量，而抛光多也会减薄钢板厚度。

2、产品成型的焊接均采用德国进口的等离子自动焊机焊接，与普通氩弧焊机相比，焊接的晶间颗粒更为均匀，强度更高。

3、设备内表面抛光粗糙度Ra0.4μm，圆角采用日式平板液压成形，确保无卫生死角。抛光技术采用的是自动化抛光自主研发的内抛机、外抛机等，工艺先进对于些高要求设备，要求抛光后凭肉眼或手感不能发现焊缝位置所在。外表面采用上下封头采用镜面抛光，为避免光污染，中部筒体采用亚光或磨砂板制作。

4、对产品的检测连最小的一点细节也要求精益求精，如对设备管口的高度要求是精确到毫米，对管口垂直度要求在2度以内。

Constantly improving production details of Tanlet

1、After the order for our product is made, the steel plate purchased does not contact with the cement ground. The wood board or rubber cushion is adopted for support during all working procedures including cutting, polishing and forming. In this way, the steel plate surface is protected from any damage. Otherwise, once it is scratched, the polishing work will be added and more polishing work will reduce the thickness of the steel plate.

2、During the welding for product forming, the plasma automatic welding machine imported from Germany is adopted. The intercrystalline granules after the welding are more even with higher strength as compared to the ordinary argon arc welding machine.

3、The interior surface of the equipment achieves a roughness of Ra<0.4 μm. The round corner is hydraulically shaped through adopting Japanese style flat plate to ensure there is no dead corner. The polishing technology adopted is automatic polishing. We have independently developed internal polishing machine and external polishing machine with advanced technology. For some devices with higher requirements, it is required that the welding seam position should not be found through naked eyes or hand feel after the polishing. The exterior surface adopts upper and lower seal heads with mirror polishing to avoid light contamination. The middle tank adopts matte treatment or is manufactured by abrasive plate.

4、The product is carefully inspected, even the detail is paid much attention to. For example, the pipe end height is required to the nearest mm and the verticality of pipe end is required to be within 2 degrees.

WJG 针剂配液机组

WJG SERIES INJECTION LIQUID ALLOTING MACHINE GROUP



说明

1、本系列容器具有加热和保温功能，按《钢制焊接容器技术条件》进行制造、试压和验收。

2、容积有100L-7000L各种规格，供您选用，也可根据客户实际需要设计、加工。

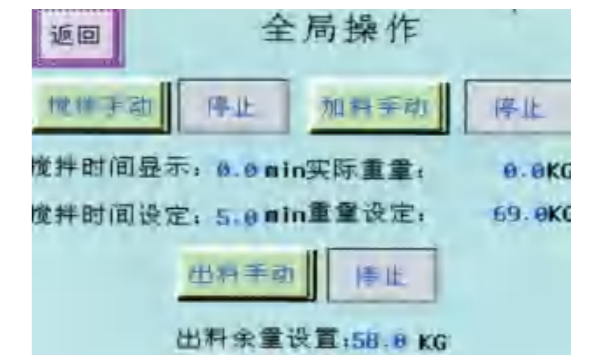
3、搅拌轴的密封采用进口卫生级机械密封，减速机选用世界著名品牌德国弗兰德或SEW，搅拌转速为36-53转/分。也可采用变频调速器控制。

4、接口采用国际通用ISO标准快装卡盘式，内胆选用进口316L或304。

5、罐体有液位计(无触点超声波、静压变送式或玻璃管式)、空气呼吸器、灭菌蒸汽口、温度计(数显式或表盘式)、CIP 万向洗罐器、灯孔视镜若干进出液口、人孔。

6、内部材质: 316L(日本进口)内光洁度: 0.28~0.45μm, 外表材质: 304镜面板

7、工作压力: 常压 工作温度: 60~100°C
 灭菌压力: 0.15~0.3MPa 灭菌温度: 121~132°C



技术参数 Technology parameter

型号规格 Model and specification	WJG 300	WJG 400	WJG 500	WJG 600	WJG 1000	WJG 2000	WJG 3000	WJG 5000	WJG 10000	
设备容积 Volume(L)	300	400	500	600	1000	2000	3000	5000	10000	
工作压力 Work pressure(MPa)	内胆 Inner cell	≤0.2								
	夹套 Jacket	≤0.3								
电动机功率 Motor power(KW)	0.55	0.55	0.75	0.75	1.1	1.5	1.5	2.2	3	
搅拌转速 Agitating speed(r/min)	36-53									
外形尺寸 Dimension(mm)	直径 Diameter	900	1000	1150	1150	1400	1500	1700	2000	2500
	高度 Height	1800	1900	2200	2300	2600	2900	3200	3700	4200
换热面积 Heat exchanging area(m²)	2	2.4	2.7	3.1	4.5	7.5	8.6	10.4	20.2	

不锈钢容器系列 Stainless steel tank series



冷热缸/老化缸
HOTTING OR COOLING TANK

产品用途Use:

冷热缸(又名老化缸),具有节能、消声、耐腐、生产能力强、清洗方便等优点,冷热缸广泛用于乳品行业、食品制药、化工、饮料等工业部门,冷热缸作为加热、冷却、保温、杀菌处理或贮藏浆液的必须设备,冷热缸特别适用于牛奶的巴氏消毒与保温,也是冰淇淋生产线中的必需设备。

容积:50L、100L、200L、300L、500L、600L、1000L~5000L,搅拌转速不:15~120r/min定速。

This equipment is widely used in the dairy industry, food, pharmaceutical, chemical, beverage and other industrial sectors, hot and cold cylinder as the heating, cooling, heat preservation, sterilization or slurry storage is a necessary equipment, especially suitable for cold and hot cylinder of pasteurized milk and heat preservation, also is the necessary equipment in ice cream production line.

Volume: 50L, 100L, 200L, 300L, 500L, 600L, 1000L ~ 5000L, stirring speed, 15~ 120 R/min speed.



配料罐/搅拌罐
MIXING TANK

产品用途Use:

本配料罐又名配料缸、拌料缸、配料桶、搅拌罐、有节能,耐用,生产能力强,清洗方便、结构简单等优点专为食(乳)品、饮料、制药、生物工程、果酒、调味品、香精香料、日化行业设计制造的搅拌、调配设备。罐体设有夹层,可通入蒸汽或冷却水分别进行加热或冷却使二种以上物料(如粉状物或添加剂+溶液等)借助搅拌器的运转在最适宜的温度条件下进行充分混合、搅拌。

容积:50L、100L、200L、300L、500L、600L、1000L~5000L,搅拌转速:15~120r/min定速。

This ingredients tank also known as ingredients cylinder, cylinder, mixing barrel, mixing tank, energy saving, durable corrosion, strong production capacity, easy clean, simple structure, etc; Designed for food (milk) products, beverage, pharmaceutical, bio-engineering, wine, spices, flavoring, daily chemical industry design and manufacture of stirring and mixing equipment. Tanks with interlining, can pass into the steam or cooling water, respectively, for heating or cooling, so more than two kinds of material (such as powder or additives + solution, etc.) with the help of agitator operation under the condition of optimum temperature for fully mixing, stirring. Volume: 50L, 100L, 200L, 300L, 500L, 600L, 1000L ~ 5000L, stirring speed, 15~ 120 R/min speed.



酶解反应罐
ENZYMOLYSIS REACTION TANK

产品用途Use:

本设备广泛应用于食品、饮料、生物工程、制药等行业的物质用酶做催化剂,以分解各种有机高分子,使其变为有机小分子,便于机体同化。罐体设有夹层,可通入蒸汽或冷却水分别进行间接加热或冷却,使物质在酶的作用下,借助搅拌器的运转在最适宜的温度值与pH值条件下进行充分酶解反应。

容积:50L、100L、200L、300L、500L、600L、1000L、~5000L,搅拌转速:15~120r/min定速。

This equipment is widely used in food, beverage, biotechnology, pharmaceutical and other industries of material using enzymes as catalyst, to break down all kinds of organic polymer, make it into a small organic molecules, facilitate the organism assimilation. Tanks with interlining, can pass into the steam or cooling water respectively for indirect heating or cooling, make the material under the action of enzyme, using blender running at optimum temperature and pH conditions fully enzymolysis reaction. Volume: 50L, 100L, 200L, 300L, 500L, 600L, 1000L ~ 5000L, stirring speed, 15~ 120 R/min speed.



菌种罐
SEED TANK

产品用途Use:

本设备适用于酸奶及乳酸饮料母液发酵、酿造、佐制药、化工及真菌培植,其作用可加热、保温及冷却,为全封闭卫生型发酵专用设备。本设备具有节能、消声、耐腐蚀、生产力强,清洗和操作方便等优点。

容积:50L、100L、200L、300L、500L、600L、1000L~5000L,搅拌转速:15~120r/min定速。

This equipment is suitable for the yogurt and lactic acid drinks mother liquor fermentation, brewing, seasoning, pharmaceutical, chemical, and fungus cultivation, the role of cooling, heating, heat preservation and is fully enclosed type health fermentation. This equipment has the energy saving, sound attenuation, corrosion resistance, strong productivity, cleaning and convenient operation. Volume: 50L, 100L, 200L, 300L, 500L, 600L, 1000L ~ 5000L, stirring speed, 15 ~ 120 R/min speed.



当产品需要搅拌让产品更快更均匀的运动,天联公司根据您的实际工艺要求进行设计,正确的选择叶轮形式可以产生最优化的搅拌效果。

When products need agitation, according to your actual process requirements Tanlet company makes design and correctly choose blade type which can result in agitation results of optimization, so that it lets products quicker and equal movement.



三叶推进式
Three-blade propelling type stirrer

轴流型,循环速率高剪切力小,采用挡板或导流筒则轴向循环更强,特别适合于低粘度外极型互溶液体的混合、传热及固体悬浮。因卫生级设备内必须减少死角及易清洗,不宜加挡板和导向筒,远跃公司为您设计偏心安装以解决搅拌器所产生的轴向流动,造成强烈湍动,避免打旋而达到理想效果。

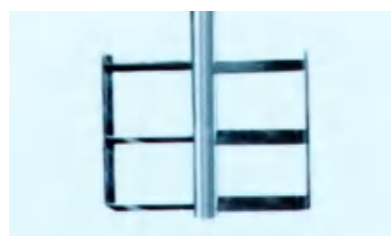
It belongs to axes flow with high speed circulation and little cut force. It uses baffles or draft tube to make axes more strength circulation, applies on mixture, transfer-heat and solid suspend. Low-viscosity soluble liquids. Sanitary grade equipments must reduce dead corners and be easy to clean, So it does not suit for adding baffles and draft tube. Yuanyue designs off-centre installation that solve axes flow and intense turbine and rotation agitation causes.



斜叶浆式
Oblique impeller blade type stirrer

有轴向分流、径向分流和环向分流浆叶前端有较强涡流多在层流、过度流状态下操作,根据罐体形状及大小,可配备多层浆叶,可用于高粘度液体的低速搅拌。

There are axes, radial, circulation flows, Upper end of blade has strength turbine flow, it operates under the condition of laminar flow and transfer flow. According to shape and size of tanks, it can match several blades which is used in high-viscosity liquid with low-speed agitation.



锚式或框式
Frame or anchor type stirrer

在浆叶不同高度上均为水平环向流,采用斜叶或角钢形叶时,可增加浆叶附近的涡流,锚式、框式均在层流状态下操作,为了增大搅拌范围,可根据需要在浆叶上增设立叶和横梁。适用于高粘度液体或含固量高的液体混合。

There is all horizontal circle flow in different height of blade. it uses oblique or angle steel type blades that increases turbine around blades. Anchor type and frame type operates in laminar flow for increasing scope of agitation, according to requirements, adds vertical blades and beam which suits for mixture of high-viscosity liquid or liquid including high solid.



平叶圆盘涡轮的每个叶片后缘将形成高速剪切区域,使对液体和固体得以分散特别适合于液体快速混合,制备稳定的液-液分散,固体含量小于60%的悬浮体或不互溶液体与气体的分散。可促进传热、传质和化学反应。

Each blade edges of flat blade disc turbine type stirrer will form high speed cut area which makes separate liquid and solid to be suitable for liquid quick mixture, separation of liquid-liquid, separation of suspend of less than 60% solid quantity or immiscible liquid and gas. It can promote transfer heat and media and chemical reaction.

注意!
搅拌器一定要水平安装,并且与罐体保持垂直角度。

Remark!
Agitation must be horizontally installed, and keep vertical angle with body of tank.



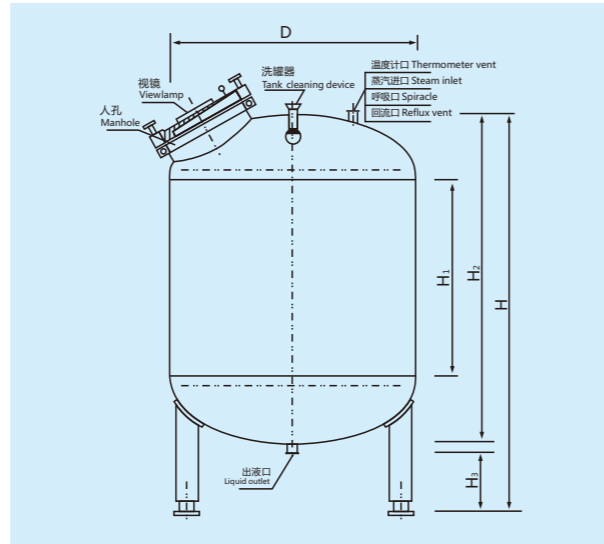
概述 Summary:

1. 罐体系统罐体材料: 316L或304不锈钢罐体设计压力: 0.3MPa; 夹套设计压力: 0.35MPa; 罐体结构: 带发酵罐专用取样、放料阀带有标准温度、PH、DO传感器接口; 罐盖结构: 标准泡沫电极插口1个; 视镜视镜口1个; 通用补料接口3个; 接种口1个; 排口1个; 表面处理: 不锈钢内外镜面抛光, 抛光精度Ra0.4;
2. 灭菌方式: 在位蒸汽灭菌;
3. 搅拌系统: 三层六平叶发酵专用标准桨, 控制范围: 50~300rpm, 控制精度: +1%;
4. 温度控制: 冷却水温度+5~65°C, 精度: ±0.1°C;
5. pH控制: 瑞士梅特勒pH电极及屏蔽导线, 范围: 2~12pH, 控制精度: ±0.02pH;
6. 溶氧控制: 瑞士梅特勒DO电极及屏蔽导线, 范围: 5~100%, 控制精度: ±2%;
7. 泡沫控制: 自动检测泡沫添加消泡剂, 灵敏度: 100~100000;
8. 补料控制: 蠕动泵自动添加, 范围: 0~5L/min, 控制精度: ±2%;
9. 空气流量控制: 转子流量计手动调节, 范围: 0~5000L/min;

1. Tank body system: Tank body material: 316L or 304 stainless steel; tank body designed pressure: 0.3MPa; jacket designed pressure: 0.35MPa; Tank body structure: provided with special sampling valve and discharging valve for fermenting tank, as well as standard temperature, PH, and DO sensor vents. Tank cover structure: 1 standard foam pole socket, 1 view lamp and sight glass vent, 3 universal material adding vents, 1 vaccination vent, 1 air vent. Surface treatment: stainless steel interior and exterior mirror polishing with polishing fineness of Ra0.4.
2. Sterilization method: in-place steam sterilization;
3. Blending system: special standard paddle for fermentation with three layers and six flat vanes; control range: 50~300rpm, control precision: ±1%;
4. Temperature control: cooling water temperature +5~65°C; precision: ±0.1°C;
5. pH control: Swiss Mettler pH pole and shielding conductor; range: 2~12pH, control precision: ±0.02pH;
6. Oxygen dissolution control: Swiss Mettler DO pole and shielding conductor; range: 5~100%, control precision: ±2%;
7. Foam control: automatic foam detection and defoamer adding; sensitivity 100~100000
8. Material adding control: creeping pump automatic adding; range: 0~5L/min, control precision: ±2%;
9. Air flow control: rotor flowmeter manual adjustment; range: 0~5000L/min.

技术参数 Technology parameter

型号规格 Model and specification	100L	200L	500L	1m	2m	5m	10m	20m	50m
发酵罐直径 (mm)	400	500	700	900	1200	1500	1800	2300	3100
发酵罐高 (mm)	2000	2300	2650	2900	3800	4480	5250	6550	8550
罐内压力 (MPa)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
夹套压力 (MPa)	0.3	0.3	0.3	0.3	0.3	0.3	管0.3	管0.3	管0.3
搅拌桨数	2	2	2	2	2	3	3	4	4
搅拌转速 (r/min)	400	360	265	220	180	160	145	126	110
电机功率 (kw)	0.55	0.75	1.5	2.2	4	7.5	17	30	55
冷却方式	夹套					列管			



该类储罐按《钢制压力容器》《钢制化工容器制造技术要求》进行制造、试压和验收。

储罐容积200L-8000L等标准规格,也可根据客户实际需要进行设计、加工。

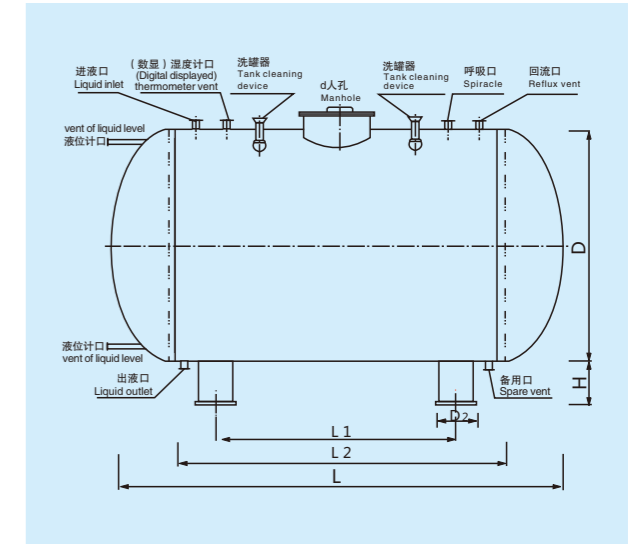
该类储罐主要用于大输液、水针剂、口服液及去离子水(纯化水)储存。

罐体配置高精度液位计、呼吸器、灯视镜、洗罐器、人孔或手孔、数显温度计及若干个快装接口。

罐体接口采用国家通用ISO标准快装卡盘式罐体板材选用进口316L或304,内表面镜面抛光Ra0.28-0.45μm,外表面为进口304镜面板或亚光处理。

技术参数 Technology parameter

规格 (L) Specification	参考尺寸 (mm) Reference size						
	D	D1	H1	H2	H3	H	DN
200	700	800	400	800	235	1085	32
250	800	900	400	850	235	1135	32
300	800	900	460	910	235	1195	32
500	900	1000	640	1140	270	1460	40
600	900	1000	830	1130	270	1450	40
800	1000	1100	880	1430	270	1750	40
1000	1100	1200	880	1480	270	1800	40
1200	1100	1200	1100	1700	270	2020	40
1500	1200	1300	1150	1800	270	2120	40
2000	1400	1500	1220	1970	280	2300	40
2500	1500	1600	1150	1980	280	2310	40
3000	1600	1700	1220	2120	280	2450	40
4000	1800	1900	1250	2250	280	2580	40
5000	1900	2000	1500	2550	320	2950	50
7000	2200	2300	1450	2650	320	3050	50
8000	2200	2300	1750	2950	320	3350	50



1.该类储罐按《钢制压力容器》《钢制化工容器制造技术要求》进行制造、试压和验收。

2.储罐1000L-20000L等标准规格,也可根据客户实际需要进行设计、加工。

3.罐体上快装接C为国际通用标准ISO标准快装卡盘式,配置高精度液位计、数显温度计、洗罐器、灯视镜、人孔及若干个快装接口等。

4.罐体材料为进口316L或304,内表面镜面抛光Ra0.28-0.45μm,外表面镜面处理或亚光。

技术参数 Technology parameter

规格 (L) Specification	参考尺寸 (mm) Reference size								
	D	D1	D2	L1	L2	L	H	D	DN
1000	1000	1100	150	1000	1130	1680	270	400	40
1200	1000	1100	150	1160	1450	2000	270	400	40
1500	1100	1200	150	1100	1400	2000	270	400	40
2000	1200	1300	150	1300	1730	2380	270	400	40
2500	1300	1400	150	1400	1770	2470	280	500	40
3000	1400	1500	150	1400	1930	2680	280	500	40
4000	1500	1600	200	1600	2160	2960	320	500	40
5000	1600	1700	200	1700	2400	3280	320	500	50
6000	1700	1800	200	1840	2550	3480	320	500	50
8000	1900	2000	250	2070	2750	3780	320	500	50
10000	2000	2100	250	2270	3100	4180	320	500	50
12000	2100	2200	280	2460	3400	4550	360	500	65
15000	2300	2400	280	2640	3600	4850	360	500	65
20000	2500	2600	280	2860	3900	5250	360	500	65



反应罐Reactor

系列不锈钢反应罐是医药、化工等领域常用的反应设备之一,它是一种在定的温度和压力下,借助搅拌器将一定体积的两种(或多种)液体与固体或液体进行混合,促进其化学反应的设备,通常伴随有热效应,由换热装置将所需热量输入或将生成热量移出。搅拌形式多用锚式或框式,确保物料在短时间内混合均匀。搅拌转速多配以变频调速,设有温度显示或控制。

SS reactor tank is one of normal use reactor equipments in pharmaceutical and chemical fields. at certain temperature and pressure, through agitator mixes two kinds of volumes certain (or many kinds of) liquids, solids or liquids, promotes its chemical reaction, usually with thermal heat effect, Inputs required heat energy by heat exchanging device or shifts forming heat energy. Type of agitation more uses anchor or frame type which ensures equal and even mixture in short time. Speed of agitation more matches frequency conversion with temperature of display and control

反应罐Reactor

结晶罐采用进口304或316L不锈钢制作,内壁采用机械抛光或电解镜面抛光,外壁采用304全焊接结构保温,外表面采用镜面或亚光处理。晶罐上安装0.22um呼吸器。晶罐能承受121°C高温灭菌消毒,配备卫生级压力表。罐体对外连接口1采用卫生快接头。结晶罐带有温度监控装置,2个视镜,清洗球及氮进口、温度计口等接口。轴的密封采用特殊的卫生级机械密封设计,确保物料不受污染。结晶罐可采用变频调整装置,搅拌轴转速调节范围大。

The crystallizer uses imported 304 or 316L to be fabrication. With inner wall of mechanical polishing or electrolyted mirror polishing, outer wall of all welded structural insulation. outer surface of mirror or matt. The respirator of 0.22um is installed on the crystallizer. The crystallizer can bear 121C high temperature sterilization and disinfection with sanitary pressure meter. Outer connection of the crystallizer adopts sanitary quick connector. The crystallizer has temperature monitor device, two sight lights, cleaning ball and inlet of Ni, temperature connection, etc. Seal of shaft adopts special sanitary mechanical seal design which insures they are not polluted. The crystallize uses adjustment device of frequency conversion with big range adjustment of shaft speed.



专用美拉德反应釜Special Meaction Type Reaction Kettle



蛋白质、脂肪、氨基酸、肽、糖等物质在高温下产生热反应生成具有浓烈熟肉香味的物质的专用反应。是肉香呈味物的专用生产设备。也可进行其他反应。也能作小型的调配罐用。本设备带专用搅拌机、配有配套冷凝器作加热回流用。夹套可接蒸汽加热,也可接冷却水快速冷却外有保温层。

专用美拉德反应釜技术参数Technology parameter

参数/型号	50	100	200	500	1000
容积 (L)	50	100	200	500	1000
罐内温度 (°C)	≤160				
罐内承压 (MPa)	≤0.6(夹套内蒸汽压力≤0.7)				

调和罐Blending Tank

- 设备说明
- 1、设备采用316L或304优质不锈钢制作,内壁采用机械抛光,外壁采用304全焊接结构保温,外表面采用镜面或亚光处理。
 - 2、夹套形式:全夹套、半圆盘管夹套、蜂窝夹套。
 - 3、保温材料:填充珍珠棉、岩棉或聚氨酯发泡。
 - 4、搅拌装置:顶部中(偏)心搅拌或侧搅拌;搅拌桨形式:框式、锚式、推进式桨叶式、涡轮式等。
 - 5、搅拌转速:10 ~ 120r/min(定速)或配置无级调速及变频调速。
 - 6、液位计形式:宽式条状钢化玻璃视镜等。
 - 7、设备配置:快开式人孔视镜、视灯、温度计(数显式或表盘式)、取样口、空气呼吸器、CIP清洗器、料液进出口、备用口、冷热媒进出口等。
 - 8、容器灭菌方式:可在线蒸汽灭菌(121C)。
 - 9、各进出口、视镜、人孔等工艺开口与内罐体焊接处均采用翻边工艺圆弧过渡光滑清洗无死角,外表美观并可按要求外壳体做滴水边设计。
 - 10、其他些非标特性均可按照客户要求定制。
 - 11、容积:50L-20000L系列规格。



It is the reaction kettle for such substances as protein, fat, amino acid, peptide, sugar and etc. to produce the substances full of strong and intense fragrance of cooked meat after thermal reaction under high temperature. It is a special device for producing substances full of fragrance of cooked meat. It can be used for other reaction or used as a small preparation tank. The equipment has its special blender, and is provided with condenser for heating and reflux. The jacket can be connected with steam for heating, and with cooling water for quick cooling. Heat preservation layer is provided outside.





设备特征 Device characteristics:

本设备适用于糖类、淀粉类、奶粉类、蛋白粉类产品和乳化剂、稳定剂、增稠剂的混合通常在配方奶粉、酸奶、各种饮料、冰淇淋等配料流程中乳化罐由缸体，定子，转子，机械密封，乳化头，电机，机架等组成，该设备是国内目前最先进的乳化设备，结构合理，清洗方便，操作方便，外型美观

This machine is suitable for sugar, starch kind of protein powder, milk powder, kind of product and emulsifier, stabilizer, thickening agent to mix, usually in the formula milk powder, yogurt, all kinds of beverages, ice cream and other ingredients in the process.

By emulsion can block, the stator and rotor, mechanical seal, emulsification head, motor, rack and other components, the equipment is the most advanced domestic currently the emulsifying equipment, reasonable structure, convenient cleaning, convenient operation, good appearance.

技术参数 Technology parameter

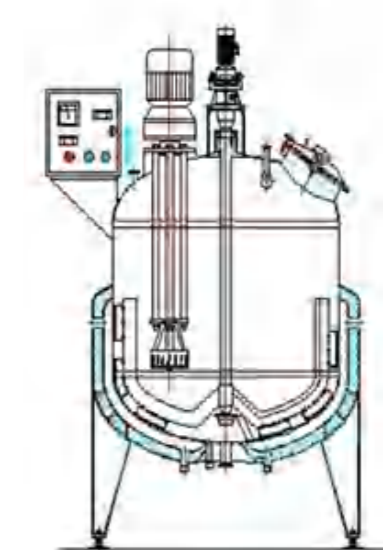
型号Mode	有效容积		乳化马达		搅拌马达		外形尺寸				总功率
	L	KW	R/min	KW	R/min	L	W	H	T	KW	
HZRJ-50	50	3	0~3500	0.37	0~40	2700	2000	2015	2700	7	
HZRJ-100	100	4		0.75		2920	2120	2200	3000	10	
HZRJ-200	200	5.5		1.1		3150	2200	2200	3100	12	
HZRJ-300	300	5.5		1.5		3650	2650	2550	3600	17	
HZRJ-500	500	7.5		1.5		3970	2800	2700	3950	19	
HZRJ-800	800	11		2.2		3780	3200	3100	4350	24	
HZRJ-1000	1000	15		2.2		3970	3400	3150	4560	29	



方形高速溶糖罐
HIGH SOLUBLE SUGAR TANK



高剪切乳化罐
HIGH SHEAR EMULSIFICATION TANK



**高剪切乳化罐的主要结构与配置说明
Main structure and configuration of high shear emulsion tank**

剪切机头采用爪式、双向吸料结构，避免了上部物料难以吸入而造成的死角和漩涡现象，高速旋转的转子产生强劲的剪切力，使剪切率更高，剪切力更强。在转子产生的离心力作用下，将物料从径向甩入定、转子之间狭窄精密的间隙中，同时受到离心挤压、撞击等作用力，使物料得到充分分散、混合、乳化。

注：如在真空状态或带压力容器上使用，剪切机电机支座需另行配置相应的机械密封装置。

The shear head adopts claw type and two-way suction structure, which avoids the dead corner and vortex phenomenon caused by the upper material difficult to inhale. The high-speed rotating rotor produces strong shear force, which makes the shear rate higher and the shear force stronger. Under the action of centrifugal force generated by the rotor, the material is thrown into the narrow and precise gap between the stator and rotor from the radial direction. At the same time, it is subjected to centrifugal extrusion, impact and other forces, so that the materials are fully dispersed, mixed and emulsified.

Note: if it is used in vacuum or pressure vessel, the motor support of shearing machine shall be equipped with corresponding mechanical seal device.

处理工艺 Treatment process:

- 1、混合：糖浆、香波、洗涤剂、果汁浓缩液、酸奶、甜点、混合奶制品、油墨、瓷釉。
 - 2、分散混合：甲基纤维素溶解、胶体溶解、碳化物溶解、油水乳化、预混合、调味料生产、稳定剂溶解、烟尘、盐、氧化铝、农药。
 - 3、分散：悬浮液、药丸包衣、药物解聚、涂料分散、唇膏、蔬菜浓汤、芥末混合物、催化剂、消光剂、金属、颜料、改性沥青、纳米材料的制备和解聚。
 - 4、乳化：药乳液、药膏、雪花膏、面膜、面霜、乳化香精、油水乳化、乳化沥青、树脂乳化、蜡乳化、水性聚氨酯乳化、农药。
 - 5、均质：药乳液、药膏、雪花膏、面膜、面霜、组织匀浆、奶制品均质、果汁、打印墨水、果酱。
1. Mixing: syrup, shampoo, detergent, juice concentrate, yogurt, dessert, mixed dairy products, ink, enamel.
 2. Dispersion and mixing: methyl cellulose dissolution, colloid dissolution, carbide dissolution, oil-water emulsification, premixing, seasoning production, stabilizer dissolution, smoke, salt, alumina, pesticide.
 - 3, dispersion: suspension, pill coating, drug depolymerization, paint dispersing, lipstick, vegetable soup, mustard mixture, catalyst, matting agent, metal, pigment, modified asphalt, Preparation and depolymerization of nanomaterials.
 - 4, emulsification: medicine emulsion, ointment, cream, mask, cream, emulsified essence, emulsified oil, emulsified asphalt, resin emulsification, wax emulsification, waterborne polyurethane emulsification, pesticide.
 - 5, homogenization: drug emulsion, ointment, cream, mask, cream, tissue homogenization, homogenization, juice, printing ink, jam.



移动式搅拌罐
MOVING MIXING TANK



移动式贮罐
MOVING STORAGE TANK

主要特点 Main characteristics:

本设备适用于大输液、针剂、药液、生物制品、口服液、发酵液等物料的配制规格:10L-300L,本设备结构设计美观、操作方便、支脚采用万向轮设计、卫生、清洗方便、移动灵活稳固、内、外表面经卫生级镜面抛光处理符合GMP质量标准。

Widely used in big infusion and injection, solution, biological products, oral liquid, fermented liquid materials such as the preparation

Volume: 10L-300L, this equipment structure design is beautiful, convenient operation, supporting feet adopt universal wheel design, health, easy clean, flexible mobile firm; Inside, outside surface by the health level mirror polishing treatment in accordance with GMP standard of quality. use of mechanical seal, explosion-proof electric motor to ensure production process safety GMP standard of quality.



实验室反应釜
LABORATORY REACTION KETTLE



电加热搅拌罐
ELECTRICAL HEATING MIXING TANK

适用范围 Use:

适用于巴氏奶、酸奶、花式奶、果汁、茶饮料、啤酒、冰淇淋、乳饮料、浓缩汁、葡萄酒等。

Suitable for: pasteurized milk, yogurt, fancy milk, juice, tea beverages, beer, ice cream, milk beverage, concentrated juice, wine etc.

巴氏灭菌工艺参数: 4°C→75°C均质→85~95°C (15S) →15°C→4°C

Pasteurising technology parameters: 4°C to 75°C and homogeneous 85~95°C (15S)-15°C-4°C

设备组成包括 Equipment unit:

- A、板式换热器 Plate heat exchanger
- B、平衡桶 Balance barrels
- C、热水平衡桶 Hot water balance barrels
- D、进口热水泵 Into Hot water pump
- E、物料输送泵 Output pump
- F、热水发生器 Hotwater generator
- G、PLC电控柜 PLC control cabinet
- H、不锈钢管路阀门等 Stainless steel pipe valves



巴氏板式杀菌机
PLATE STERILIZER

适用范围 Use:

适用于牛奶、果汁、饮料等液态物料的瞬时超高温灭菌及巴氏杀菌,也可以用于粘度大及含有纤维和颗粒的液体。

Apply to milk, juice, beverage and etc and liquid materials of the instantaneous ultra high temperature sterilization and pasteurizing

巴氏灭菌工艺参数:

- 1、5°C→75°C均质 (homogenizer) →137°C (3-5S) →20°C →25°C适用于无菌包装 (for aseptically filling)
- 2、5°C→75°C均质 (homogenizer) →115°C/137°C (5-15S) →88°C→90°C适用于热灌装 (for hot filling)



列管式超高温 (UHT) 杀菌机
TUBULAR HIGH TEMPERATURE STERILIZER MACHINE

技术参数 Technology parameter

型号 Mode	HG-UHT-1.0	HG-UHT-2.0	HG-UHT-3.0	HG-UHT-5.0	HG-UHT-10	HG-UHT-20
处理能力 (T/H) Flow	1t/h	2t/h	3t/h	5t/h	10t/h	20t/h
均质温度(°C) Homogeneous temperature	75	75	75	75	75	75
灭菌温度(°C) Sterilizing temperature	115~137°C					
保温时间 (T) Warm-up time	4-75S					
进料温度 (°C) Into temperature	5°C					
出料温度 (°C) Out temperature	5-30°C					
蒸汽耗量 (T/H) Steam cost	157	208	316	416	820	1480
接管尺寸 (mm) Siter	φ 25	φ 38	φ 38	φ 38	φ 51	φ 51
设备重量 (Kg) Equipment weight	1800	1850	2100	2500	2800	3500



列管式热效换器
Tubular heat exchanger

列管式热交换器是一种筒体内布置有不同数量、规格的管子组成不同换热面积的密闭的热交换器。材料接触选用优质不锈钢SUS 304,本换热器具有结构简单外形美观无死角易清洗、符合GMP要求。广泛用于制药、化工行业的蒸汽冷凝、物料加热冷却等作用。



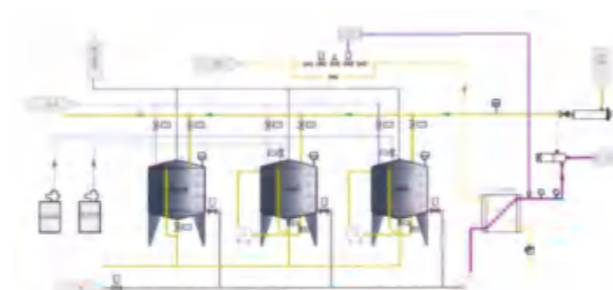
螺旋板换热器
Spiral board heat exchanger

该设备具有热效率高、结构紧凑轻巧、占地面积小、安装方便等。广泛用于制药行业液体或气体加热、冷却、蒸发是良好的换热设备。换热面积5-120m²最大允许使用压力1.6MPa最大允许使用温度-50-250。



列管式技术参数Technology parameter

交换面积Heat exchanging area(m ²)	0.5	1.0	1.5	2.0	3.0	4.0	5.0	6.0	8.0	10
进出口径Inlet and outlet diameter(mm)	20	25	32	32	32	40	40	40	50	50
壳体直径Diamter of housing(mm)	159	159	219	219	273	273	273	300	300	300
列管长度Length of lined pipe(mm)	800	1500	1500	1500	1500	1500	2000	2000	2000	2000
壳程压力Pressure on housing(MPa)	0.3									
管程压力Pressure in pipe(MPa)	0.3									



主要特点 Main characteristics:

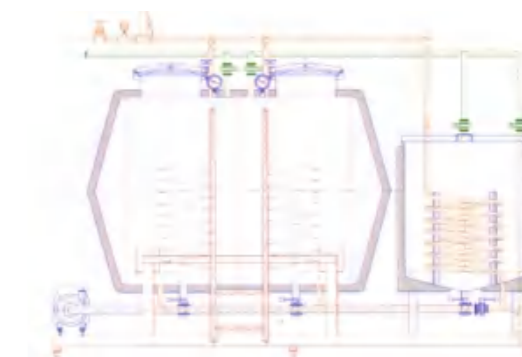
本产品适用于乳品食品厂、啤酒厂、制药厂、罐头厂、调味品厂等一般食品厂的物料管道和容器设备就地清洗本设备利用离心泵输送清洗液在物料管道和设备容器内进行强制循环，以达到清洗干净的目的。

The kettle, kettle by kettle body cover, the clip set, mixer, transmission shaft sealing device, device, supporting etc,Device equipped with CIP cleaning rotating spray cleaning ball head, the WenKong, pressure taps, explosion-proof depending on the light, as a mirror, quick release open mouth and so on, ensure convenient operation, use reliable. The pollution, the noise of the production environment characteristics, such as small this equipment all use SUS304/ SUS3 16L stainless steel production,both internal and external surface sanitation mirror polishing or drawing processing, in accordance with The transmission parts

适用范围Use:

本产品适用于乳品食品厂、啤酒厂、制药厂、罐头厂、调味品厂等一般食品厂的物料管道和容器设备就地清洗本设备利用离心泵输送清洗液在物料管道和设备容器内进行强制循环，以达到清洗干净的目的。

This equipment is used in medicine (material workshop, synthetic workshop), biological engineering, fine chemical, chemical synthesis, food industry etc of hydrolysis, and crystallization, distillation, evaporation, heating mixed.



技术参数 Technology parameter

型号Mode	CIP-500	CIP-1000	CIP-2000	CIP-3000	CIP-5000
酸罐(L)Acid tank	500	1000	2000	3000	5000
碱罐(L)Alkali tank	500	1000	2000	3000	5000
热水罐(L)Hot water tank	500	1000	2000	3000	5000
加热方式Heating mode	-0.08				
CIP泵 CIPpumb	10T/H	10T/H	20T/H	20T/H	30T/H
扬程(M)Head	24	24	36	36	36
功率(Kw)Power	2.2	2.2	5.5	5.5	7.5



快开式压滤器:

所有连接快开式,方便拆洗承压设计,可泵送过滤真空抽料过滤进口过滤网袋过滤精度高耐用设备接口机械拉伸圆弧过渡内胆、外表抛光精度为0.4um;高精度压力表防震动,防水。

The Opening Type Presses The Filter Quickly:

Quick open connection, easy to clean; design to be pressured, pump transfer to be filtered, and vacuum filtering; imported filtering mesh bag, high filtering precision, durable; machine connection mechanical prolonged, circle arc transition; polish degree of inner cell and outer shell of 0.4um; and high precision pressure application, anti-vibration, water proof.

技术参数 Technology parameter

材质Material	SUS304
过滤介质Filter area(°)	8层网袋8layer mesh bag
过滤面积Filter area(°)	2
工作压力Work pressure(M)	0.3
使用温度Temperature°C	0.200
真空度Vacuum degree(MPa)	-0.08
流量Flow(T/h)	3



DL不锈钢板框过滤机系列:

本机为不锈钢多层板框式过滤机,适用于浓度50%以下粘度较低,含渣量较少的液体作密闭过滤以达到提纯、澄清等精滤、半精滤的要求。可以直接选用微孔滤膜能够不经微孔过滤器过滤而达到无菌过滤之目的。本机过滤面积大流量大适用范围大所以在制药、化工、食品等行业有广泛用途应用在制药厂针剂药液之过滤效果甚佳。

DL Series Stainless Steel Frame Filter:

The machine is stainless steel multilayer frame filter. It is fit for enclosed filter in liquids with concentration 50%, low viscosity and little slag so as to meet precision filter and half-precision filter requirements like refining, sterilization and clarification. By directly using micro porous-membrane, material can achieve aseptic filtration without passing micro porous-membrane filter. The filter has big filter area, big flow, and wide application scope. So it is widely used in pharmacy, chemical engineering and food industries. While used for filtering injection liquids in pharmaceutical factories, it has particularly good effects.

技术参数 Technology parameter

型号规格	DL-150	DL-200	DL-300	DL-400
滤板直径(mm)	150	200	300	400
层数	10	10	10	10
流量(T/h)	1.5	3	5	8
功率(KW)	0.75	1.1	1.5	2.2
设备重量(Kg)	156	175	226	257
外形尺寸(mm)	长L	600	650	700
	宽W	500	500	600
	高H	800	900	1050



设备特点:

钛棒过滤器主要用于过滤压力小于0.3MPa的加压过滤。过滤精度为5um以下,耐腐蚀、寿命长、耐高温、耐磨损、强度高、无微粒脱落、不吸附主药成份等优点,可用于液体、气体的粗滤和预滤等。钛棒由钛合金粉末烧结制成,其过滤的产品具有固液分离、除微粒、去热源、澄清度高、机械物理性能好等特点。主要用于药液脱炭,可替代大输液生产中传统的砂棒过滤器。客户长期使用后,一致反映效果良好,各项技术指标符合药典规定和GMP要求。

主要技术参数:

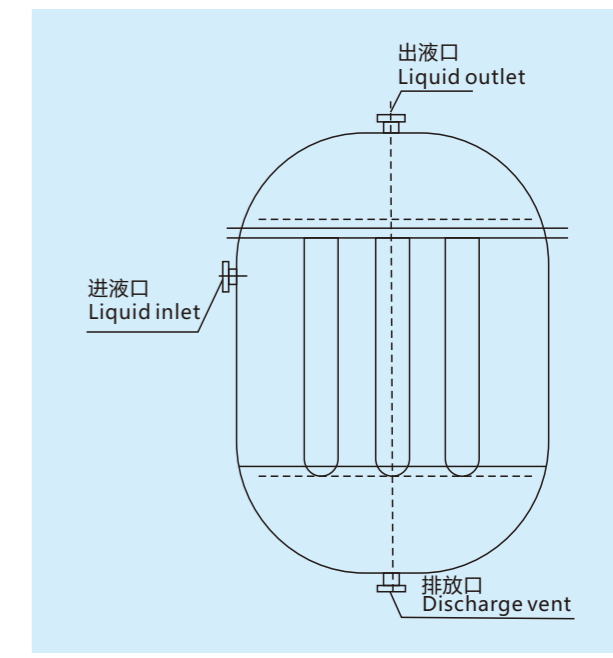
- 1、过滤精度: 4um-50um
- 2、过滤效率: 95%-99.99%
- 3、工作压力: ≤0.3MPa
- 4、工作温度: ≤230°C
- 5、钛棒规格: 中60x 300mm

Main Technical Parameters:

Filtration precision: 4um-50um
Filtration efficiency: 95%-99.99%
Working pressure: ≤0.3MPa
Working temperature: ≤230C
Specification of Titanic stick: 中60X300mm

钛棒与流量对照表 Contrast form of Titanic stick and flow

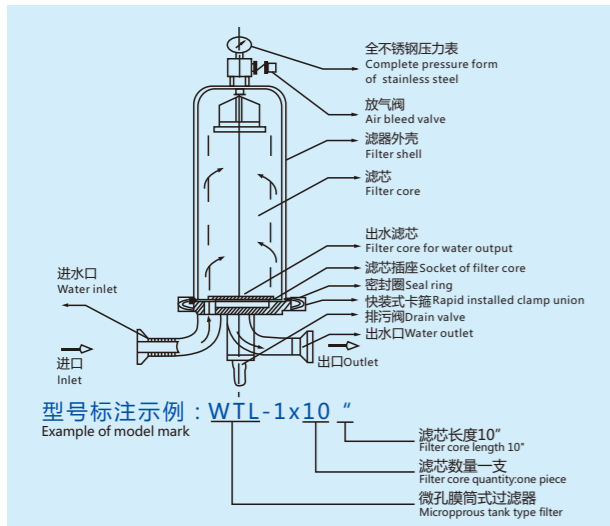
型号Model	TL-1	TL-3	TL-5	TL-7	TL-9	TL-11	TL-19
规格芯Specification Core	1	3	5	7	9	11	19
流量FlowT/h	0.3	0.9	1.5	2	2.5	3	5
外形尺寸Dimension LxWxH(mm)	610x185	385x350x865	395x410x880	530x430x890	500x465x880	500x465x890	600x600x930



Equipment characteristics:

Titanium powder sintered filter core is adopted, usually used for prefiltration or interfiltration. This filter core has high precision, high mechanical intensity and is high temperature resistant and anti-corrosion, which is widely applied to medicine liquids decarbonization and gas filter. It can also replace sand core filter that is commonly used on large liquid infusion production lines. The shell of TL titanium rod filter of our company is made of SUS304 or SUS316L stainless steel. After used by customers for years, it has been proved to have good effects and technical indexes apply with GMP medical standard. The titanic stick is made of sintered titanium alloy powder. The products filtered by it have such characteristics as solid and liquid separation, particle removing, heat source removing, high clarity and good mechanical and physical performance. It is mainly used for decarbonization of medicine liquids, and it can also replace sand stick filter that is commonly used in large transfusion production. After used by customers for years, it has been proved to have good effects and all its technical indices comply with pharmacopoeia stipulations and GMP requirements.





快开式压滤器:

我公司引进国外先进技术按FDA和GMP标准制造滤器材质为优质进口不锈钢(304、316L)。其特点是体积小、重量轻、使用方便、过滤面积大、堵塞率低、过滤速度快、无污染、热稳定性及化学稳定性好。此滤器能滤除绝大部分微粒,所以广泛应用于精滤和除菌工艺。

1. 滤筒有1芯、3芯、5芯、7芯、9芯、11芯、13芯、15芯。
2. 折叠式滤芯长度有10" 20" 30" 40"
3. 滤芯材质有聚四氟乙烯、聚砜、尼龙、聚丙烯、醋酸纤维。
4. 过滤孔径有0.1μm、0.22μm、0.45μm、1μm、3μm、5μm、10μm、30μm、60μm、分疏水性(适用于气体)和亲水性(适用于液体)滤芯根据需要选用。

技术参数 Technology parameter

型号Model	理论流量(T/h) Theoretic flow	配备滤芯 Equipped filter core		进出口管外径 (mm)Outside diameter of inlet and outlet pipe	连接(进出口) Connection(Inlet and outlet)		外型参考尺寸(mm)Reference outline dimension				
		根数 Number	长度 Length		方式 Mode	规格(mm) Specification	A	B	C	D	E
WTL-1x10"	0.3-0.5	1	10"	25	快装	φ50.5	600	400	115	102	210
WTL-1x20"	0.5-1		20"		螺纹		850	650			
WTL-1x30"	1-1.5		30"		快装	G3/4"	1100	900			
WTL-3x10"	1-1.5	3	10"	38	螺纹	φ50.5	850	450	150	168	280
WTL-3x20"	1.5-3		20"		快装		1100	700			
WTL-3x30"	2.5-4.5		30"		螺纹	G1 1/2"	1350	950			
WTL-5x10"	1.5-2.5	5	10"	38	法兰	φ50.5	850	450	150	219	420
WTL-5x20"	3-5		20"		快装	G1 1/2"	1100	700			
WTL-5x30"	4.5-7.5		30"		螺纹	Dn40	1350	950			
WTL-7x20"	5-7	7	20"	57	法兰	φ64	1200	700	190	250	430
WTL-7x30"	6-10		30"		快装	G2"	1450	950			
WTL-7x40"	8-14		40"		螺纹	Dn50	1700	1200			
WTL-9x20"	6-8	9	20"	57	法兰	φ64	1300	750	190	350	450
WTL-9x30"	8-12		30"		螺纹	G2"	1600	1000			
WTL-9x40"	12-15		40"		法兰	Dn50	1800	1250			
WTL-13x30"	15-20	13	30"	76	螺纹	G3"	1350	1025	200	450	500
WTL-13x40"	18-25		40"		法兰	Dn80	1600	1300			
WTL-15x30"	18-25		30"		螺纹	H4"	1350	1050			
WTL-15x40"	20-30	15	40"	89	法兰	DN100	1600	1300	200	500	500

DI不锈钢板框过滤机系列:

The filter is made by our company according to FDA and GMP standards by introducing advanced technology from abroad. It is made of high-quality stainless steel (304,316L). It has such characteristics as small volume, light weight, convenient use, large filtration area, low blocking rate, fast filtration speed, no pollution, good thermal stability and chemical stability. This filter can remove most granules, so it is widely applied in fine filtration and sterilization.

1. The filter tank specifications include 1-core, 3-core, 5 core, 7-core, 11-core, 13-core and 15-core.
2. Folded filter core length has 10 inches, 20 inches, 30 inches, 40 inches.
3. Filter core materials: PTFE, PSU, nylon, polypropylene and acetate fiber.
4. Filter core diameters: 0.1μm, 0.22μm, 0.45μm, 1μm, 3μm, 5μm and 10μm. Choosing hydrophobic filter core (Applicable for gas) or hydrophilic filter core (Applicable for liquid) according to different requirements.



板框过滤器
PLATE FILTER

板框过滤器概述Introduction:

板框过滤器是一种过滤设备,用于各种悬浮液的固液分离,适用范围广,适用于医药、食品、化工、环保、水处理等工业领域。板框过滤器适用于浓度50%以下粘度较低,含渣量较少的液体作密闭过滤以达到提纯,灭菌、澄清等过滤的目的。

规格BK-100型, BK-150型, BK-200型, BK-300型, BK-400型。

Plate and frame filter is a kind of filtering equipment, applied to various suspension of solid-liquid separation, wide applicable scope, applicable to the pharmaceutical, food, chemical industry, environmental protection, water treatment and other industrial fields.

Plate and frame filter is suitable for low concentration below 50% viscosity, less fluid slag content for airtight filtering to achieve purification, sterilization, clarify the purpose of the filter, etc.

Specification: BK-100, BK-150, BK-200, BK-300, BK-400.



硅藻土过滤机
DIATOMITE FILTER

硅藻土过滤机概述Introduction:

硅藻土过滤机适用于白酒、果酒、葡萄酒、保健酒、饮料、糖浆、酱油、醋、以及医药、生物、化工等液态制品的澄清过滤。过滤周期长、效率高、浊度稳定、密封性好、结构紧凑、操作方便、可移动、易于维护保养。

该过滤机引进国外先进技术,选用1Cr18Ni9Ti优质不锈钢制作,采用硅藻土助滤剂,它具有外形美观,操作简便,过滤成本低,效率高等特点,过滤澄清度可达99.8%,操作得法甚至可滤除大肠杆菌。

规格: KW-220型, KW-250型, KW-300型, KW-400型, KW-500型

Diatomite filter is suitable for white wine, fruit wine, wine, health wine, beverage, syrup, soy sauce, vinegar, and medicine, biological, chemical and other clear filtration of liquid products. Filtration cycle length, high efficiency, stable turbidity, good sealing, compact structure, convenient operation, portable, easy to maintenance.

Specification: KW-220, KW-250, KW-300, KW-400, KW-500.



钛棒过滤器
TITANIUM ROD EX FILTERS



双联过滤器
DUPLEX FILTERS



管道过滤器
PIPE FILTER



卫生离心泵
Sanitary centrifugal pump

乳化泵
Emulsion Pump

水粉混合机
Water-powder Mixer

鹏瑞卫生泵系列物料接触部位均采用SUS304或SUS316L不锈钢制造，在医药、饮料、化工、酿造等行业广泛应用符合医药行业GMP要求深受药厂欢迎。泵体、叶轮用SUS304或SUS316L精密铸造或锻压制成。

泵内光洁度经抛光后达到Ra0.28 μ m~0.4 μ m。
进出口采用国际标准ISO、DIN标准。
流量: 3T/h-30T/h扬程: 20m~36m。

The contact parts of Pengrui Health Pump series are SUS 304 or SUS 316L. Steel manufacturing, widely used in medicine, beverage, chemical industry, brewing and other industries, in line with the pharmaceutical industry Industry GMP requirements, welcomed by pharmaceutical companies. SUS304 or SUS316L for pump body and impeller Made of dense casting or forging. The internal finish of the pump is polished to reach Ra 0.28 μ m ~ 0.4 μ m. Import and export adopt international standards ISO, DIN standards. Flow: 3T/h - 30T/h lift-out: 20m ~ 36m.

离心泵主要技术参数
Main technical parameter of centrifugal pump

型号Model	流量(吨/小时) Flow(ton/h)	扬程(米水柱) Distance (M water column)	电机功率 electric power	进出口径 entrance & exit diameter	
TLW-15-14	1.5	14	0.5	40/25	32/25
TLW-3-14	3	14	1.1	40/32	38/38
TLW-5-24	5	24	1.5	50/40	51/38
TLW-5-32	5	32	2.2	50/40	51/38
TLW-10-24	10	24	2.2	50/40	51/38
TLW-10-36	10	36	3	50/40	51/38
TLW-15-24	15	24	3	50	51
TLW-20-24	20	24	4	50	51
TLW-20-36	20	36	5.5	50	51
TLW-25-24	25	24	4	50/50	51/51
TLW-30-24	30	24	5.5	65/50	63/51
TLW-30-36	30	36	7.5	65/50	63/51
TLW-30-60	30	60	11	65/50	63/51
TLW-35-36	35	36	11	65/50	76/63
TLW-40-36	40	36	11	80/65	76/63
TLW-40-45	40	45	11	80/65	101.6/76
TLW-50-36	50	36	11	80/65	101.6/76
TLW-80-30	80	30	15	100/80	
TLW-80-40	80	40	18.5	100/80	
TLW-100T-40	100	40	22	125/100	
TLW-100T-70	100	70	33	125/100	

卫生级磁力泵主要技术参数
Main technical parameter of sanitary magnetic pump

产品型号	功率 (KW)	转速 (r/min)	出口压力 (MPA)	流量 (T/H)
BRL1-80	1.5	2800	≤0.2	0-1.5
BRL1-100	2.2			0-3
BRL1-130	4			0-4
BRL1-140	5.5			0-5
BRL1-165	7.5			0-8
BRL1-180	11			0-12
BRL1-185	15			0-18
BRL1-200	22			0-25
BRL1-210	30			0-35
BRL1-230	45			0-50
BRL1-245	55			0-75
BRL1-260	75			0-90

自吸泵主要技术参数
Main technical parameter of self-priming pump

型号	功率 (KW)	转速 (r/min)	乳化流量 (m ³ /h)	分散流量 (m ³ /h)
BRSF-60	1.5	2900	0-1.5	0-5
BRSF-100	2.2		0-3	0-10
BRSF-120	4		0-4	0-10
BRSF-140	5.5		0-5	0-20
BRSF-165	7		0-8	0-20
BRSF-180	11		0-12	0-30
BRSF-190	15		0-20	0-30
BRSF-200	22		0-25	0-50
BRSF-210	30		0-35	0-50



U型弯隔膜阀
U-shaped curved diaphragm valve



蝶阀
butterfly valve



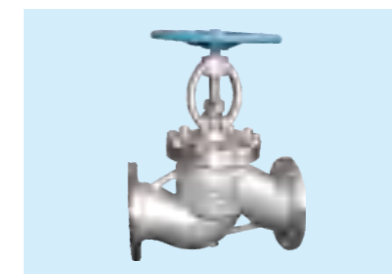
呼吸器
respirator



球阀
globe valve



压力人孔
Pressure manhole



不锈钢截止阀
Stainless steel globe valve



粉体阀
Powder valve



内开人孔
Internal manhole



全视镜人孔
Full sight glass manhole



液位计
Liquid level meter



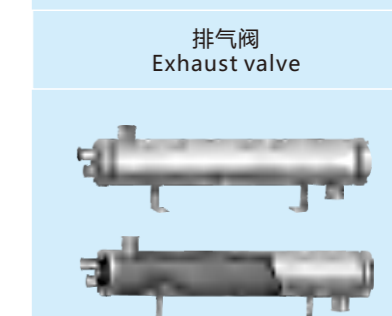
常压人孔
Atmospheric manhole



隔膜阀
Diaphragm valve



排气阀
Exhaust valve



双管板换热器
Double tubesheet heat exchanger



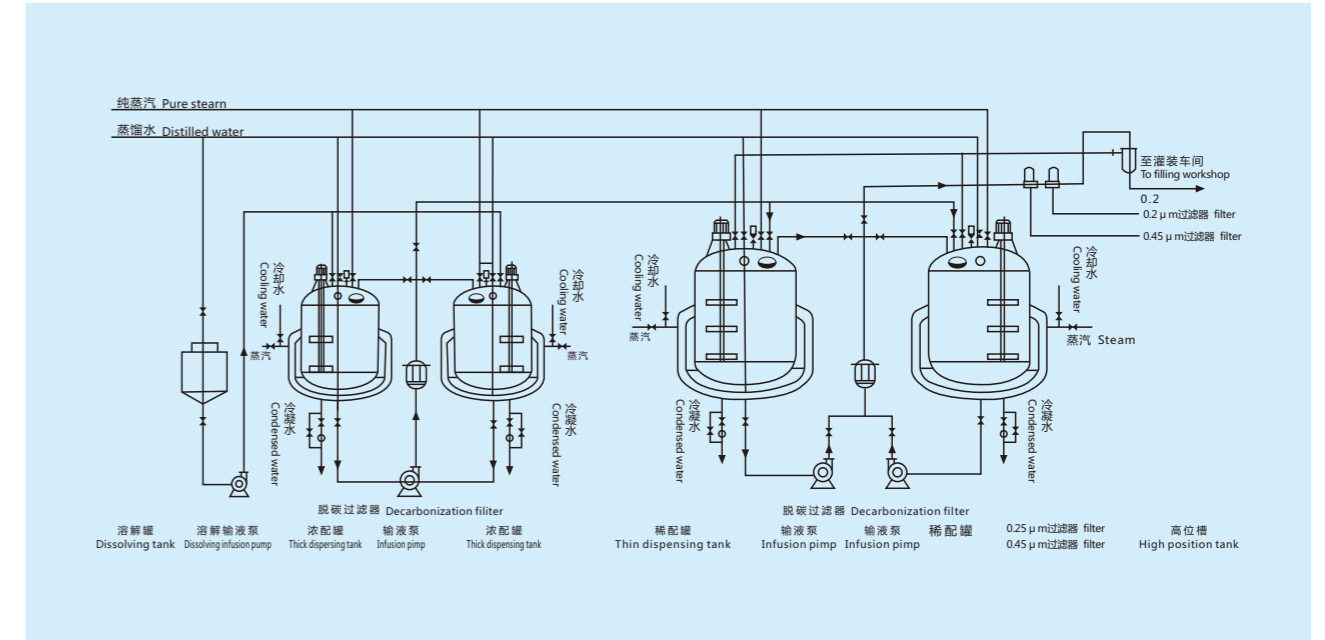
转子流量计
Rotameter



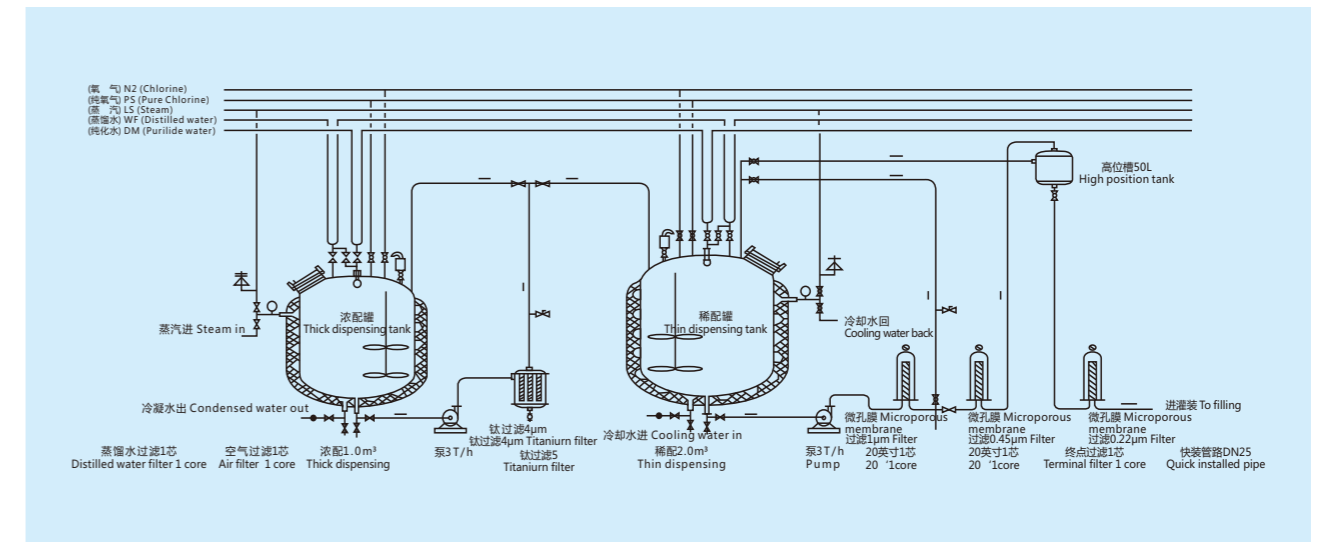
鹏睿人深知阀门与卫生洁净设备的密切相关,对确保整套工艺设备的卫生要求的重要性,所以加工的每一个配件都精工细做材料均采用SUS304、SUS316L制成,内镜面抛光光洁度 $Ra \leq 0.28 \mu m$,表面处理采取机械抛光、磨砂、亚光等多种形式,采用ISO、DIN、IDF、SMS等国际技术标准,系列化产品能符合GMP医药标准。

Pengrui people are well aware that the close relation between tube element, valve and cleaning equipment is important for the sanitation requirement of the whole set of technological facilities. Therefore, each part is elaborately processed, materials all adopt SUS304、SUS316L, internal surface has mirror polish with finish $Ra \leq 0.28 \mu m$, surface adopts mechanical polishing, sand grinding or surface polishing. Besides, International technical criteria such as ISO、DIN、IDF and SMS are adopted. So the product series can go with GMP medical standards.

大输液配置工艺流程 Configuration process flow of infusion



小针剂配置工艺流程 Process flow of dispensing small injection



果醋工艺流程图
Process flow diagram

