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提取浓缩工程可持续解决方案

COMMITTED TO EXTRACTING SUSTAINABLE  
SOLUTIONS FOR CONCENTRATION ENGINEERING.

# XUYANG

提取浓缩系统专业供应商

PROFESSIONAL SUPPLIER OF EXTRACTION  
AND CONCENTRATION SYSTEM



河南旭阳粮油机械有限公司

HE' NAN XUYANG GRAIN AND EDIBLE OIL MACHINERY CO., LTD



## RTN系列小型提取浓缩机组

### ▶ 用途:

本设备适用于动植物的有效成份及芳香油的提取浓缩同时回收溶剂，特别适合医院、大中医院校、科研单位进行小试、中试或小规模生产。

### ▶ 特点:

- 提取浓缩安装成一体，操作方便灵活，设备内外精密抛光，符合GMP要求。
- 设备主要由提取罐、冷凝器、油水分离器、过滤器、单/双效中央循环蒸发器、溶剂回收罐等组成。
- 设备管道安装特殊，一台设备多种操作方法，可完成多种生产工艺的试验，它是由我公司科技人员多年潜心研究开发而成。
- 整个生产过程在密闭条件下进行，一次性完成提取浓缩操作，溶剂用量少、提取浓缩时间短。
- 可根据客户需要配备搅拌装置，提供手动、半自动、自动三种形式，加热方式可选用电加热或蒸汽加热两种。



## RTN series Mini-extracting Concentrator

### ▶ Usage:

This equipment is applied to extract and concentrate effective ingredients from animals and plants and perfume oil and recycle solvent, specializing in small or medium experiment and small production in hospital, large and medium colleges, scientific searching institution.

### ▶ Characteristics:

- One machine, together with extracting and concentrating makes it easy to operate. It's polished in both internal and external side in accordance with GMP requirements.
- It's mainly made up of extracting tank, foam breaker, condenser, oil-water separator, filter, concentrator and solvent-recycling tank etc.
- This equipment is searched and developed by our technician after many years, which can complete several kinds of experiments. And there're many ways to operate it. Its pipeline is specially installed.
- The whole procedure is operated under seal, finishing extracting one time, with less solvent and short extracting and concentration time.
- The optional stirrer device can be installed if needed. As requirements by clients, we can provide three kinds of manual, semi-auto and fully-auto. There are electric heating and steam heating you can take.

### 技术参数:

### Technical variables

参数/型号 Parameters/Model	RTN-50L	RTN-100L	RTN-200L	RTN-300L
提取罐容积 (L) Extracting volume (L)	50	100	200	300
夹套工作压力 (MPa) Work pressure of clamp ferrule (MPa)	0.09			
内胆工作压力 (MPa) Work pressure of inner liner (MPa)	常压(根据客户要求可做成正、负压) Normal pressure(as client's request)			
夹套加热介质 Interlining heating medium	水、水蒸汽、导热油 Water, steam, heat transfer oil			
提取温度 (°C) Extracting temperature (°C)	40-100			
电加热功率 (kw) Power of electric heating (kw)	18	30	60	90
蒸发量 (清水) (L/H) Evaporation capacity (L/H)	15	30	60	80
外形尺寸 (m) Overall dimension (m)	3.6x0.9x2.7	3.5x1.0x2.4	5.3x1.0x2.9	5.2x1.2x3.6

注：本参数仅作参考，实际参数以图纸为准。

Note: This parameter is only for reference, the actual parameters is decided by drawings.

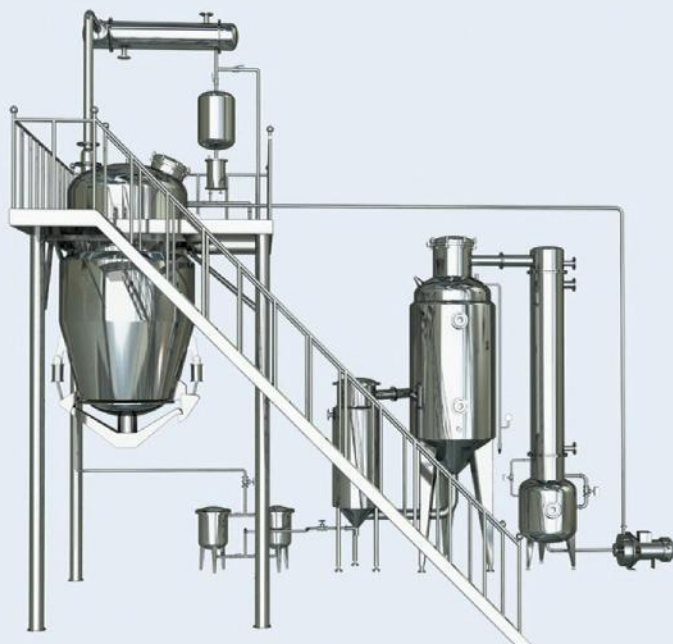
## RTN系列热回流提取单效浓缩机组 RTN series Extracting Concentrator of Single-effect Thermal Reflux

### ▶ 用途:

本设备适用于制药、生物、食品、化工等行业，常用于动植物的有效成份及芳香油的提取与浓缩，是中药生产中的常用设备。

### ▶ 特点:

- 该机组设计精巧，外形美观大方，设备内外精密抛光，符合GMP要求。
- 设备主要由提取罐、消泡器、冷凝器、冷却器、油水分离器、过滤器、单效外循环蒸发器、回流泵等组成。
- 设备结构紧凑，操作方便，提取罐可根据需要配备搅拌装置。
- 整个生产过程在密闭条件下进行，一次性完成提取浓缩操作，溶剂用量少、提取浓缩时间短。
- 温度控制范围广，可进行常压提取/常压浓缩，常压提取/减压浓缩。



### ▶ Usage:

This equipment, as a common equipment in producing Chinese tradition medicine, is often used to extract effective ingredients from animals and plants and perfume oil in such fields as pharmaceutical manufacturing, biology, food, chemical industry etc.

### ▶ Characteristics:

- The equipment is in ingenious design and good outlook. It's polished in both internal and external side in accordance with GMP requirements.
- It's mainly made up of extracting jar, foam breaker, condenser, cooler, oil-water separator, filter, reflux Pump, evaporator with monotype outer circulation etc.
- The equipment with compact structure, and convenient operation. The tank can be equipped with stirrer device if needed.
- The whole procedure is operated under seal, finishing extracting one time, with less solvent and short extracting and concentration time.
- Large scope of temperature controller permits extracting and concentration in normal pressure, extracting in normal pressure and concentration in decompression.

### 技术参数:

### Technical variables

参数/型号 Parameters/Model	RTN-0.5m <sup>3</sup>	RTN-1.0m <sup>3</sup>	RTN-2.0m <sup>3</sup>	RTN-3.0m <sup>3</sup>	RTN-5.0m <sup>3</sup>	RTN-6.0m <sup>3</sup>
提取罐容积 (L) Extracting volume(L)	500	1000	2000	3000	5000	6000
夹套工作压力 (MPa) Work pressure of Clamp Ferrule(MPa)	0.25					
内胆工作压力 (MPa) Work pressure of inner liner(MPa)	常压		Normal pressure			
单效外循环蒸发量(L/h) Model of monotype vapor(L/h)	150	300	750	1000	1500	2000
蒸汽用量 (Kg/h) Vapor consumption(kg/h)	225	445	1055	1440	2220	2885
冷却水量 (t/h) Cooling water volume(t/h)	8	15	35.5	45.5	69	90
排渣门直径 (mm) Diameter of slag-deleting door(mm)	800	800	800	800	1000	1000

注：本参数仅作参考，实际参数以图纸为准。

Note: This parameter is only for reference, the actual parameters is decided by drawings.



## QN系列球形浓缩器

### ► 用途:

本设备适用于制药、生物、食品、化工等行业，常用于中药提取液、果汁、精细化工溶液等蒸发,也适合有机溶剂的蒸发回收。

### ► 特点:

- 采用夹套加热方式，可获得较高的成品浓度。设备内外精密抛光，符合GMP要求。
- 设备主要由球形罐、汽液分离器、冷凝器、受液罐等组成。
- 采用减压操作，蒸发温度低，可装置搅拌器提高蒸发速度、防止物料粘结、减小泡沫形成速度，各仪表、阀门、视镜配置合理方便操作。



## QN series Spherical Shape Concentrator

### ► Usage:

This equipment is applied to evaporate extracting liquid from Chinese traditional medicine, juice, fine chemical liquid etc. and also recycle organic solvent in such fields as pharmacy, biology, food and chemical industry etc.

### ► Characteristics:

- Heated by clamp ferrule, it can make finished product high concentration. It's polished in both internal and external side in accordance with GMP requirements.
- It's mainly made up of ball shape tank, vapour liquid separator, condenser and receive tank etc.
- With vacuum decompressing operation, the temperature of evaporating is low. Also mixer can be installed to improve evaporating speed, avoid materials of sticking and foam of forming speed. Each instrumentation, valve or viewing lens is well arranged for easier operation.

### 技术参数:

### Technical variables

参数/型号 Parameters/Model	QN-300	QN-500	QN-700	QN-1000	QN-1500	QN-2000
蒸发能力 (kg/h) Evaporating capacity (kg/h)	60	100	150	195	260	300
加热面积 (m <sup>2</sup> ) Heating area (m <sup>2</sup> )	1	1.57	1.9	2.5	3	4
冷凝面积 (m <sup>2</sup> ) Condense area (m <sup>2</sup> )	2.2	3.4	5.6	6.5	9	10
蒸汽用量 (kg/h) Vapor consumption (kg/h)	72	120	190	240	240	480
冷却水量 (t/h) Cooling water volume (t/h)	2	4	6	8	11	12
外形尺寸 (m) Overall dimension (m)	2x1x2.3	2x1.2x2.6	2x1.2x2.6	2.7x1.9x2.9	2.7x1.9x2.9	3.1x1.8x3

注：本参数仅作参考，实际参数以图纸为准。

Note: This parameter is only for reference, the actual parameters is decided by drawings.

## ZN系列真空减压浓缩器 ZN series Concentrator of Vacuum Decompression

### ▶ 用途:

本设备适用于制药、生物、食品、化工等行业，常用于中药提取液、精细化工溶液等蒸发，也适合有机溶剂的蒸发回收。

### ▶ 特点:

- 采用夹套加热方式，可获得效高的成品浓度。设备内外精密抛光，符合GMP要求。
- 设备主要由加热罐、消泡器、冷凝器、受液罐等组成。
- 采用减压操作，蒸发温度低，可装置搅拌器提高蒸发速度、防止物料粘结、减小泡沫形成速度，各仪表、阀门、视镜配置合理方便操作。



### ▶ Usage:

This equipment is applied to evaporate extracting liquid from Chinese traditional medicine, fine chemical liquid etc. and also recycle organic solvent in such fields as pharmacy, biology, food and chemical industry etc.

### ▶ Characteristics:

- Heated by clamp ferrule, it can make finished product in high concentration. It's polished in both internal and external side in accordance with GMP requirements.
- It's mainly made up of heating tank foam-breaker, and condenser and receiver etc.
- With vacuum decompressing operation, the temperature of evaporating is low. Also mixer can be installed to improve evaporating speed, avoid materials of sticking and foam of forming speed. Each instrumentation, valve or viewing lens is well arranged for easier operation.

### 技术参数:

技术参数:		Technical variables			
参数/型号 Parameters/Model	ZN-500	ZN-1000	ZN-1500	ZN-2000	
蒸发能力 (kg/h) Evaporating capacity (kg/h)	100	195	260	300	
加热面积 (m <sup>2</sup> ) Heating area (m <sup>2</sup> )	1.57	2.5	3	4	
冷凝面积 (m <sup>2</sup> ) Condensing area (m <sup>2</sup> )	3.4	7	9	10	
蒸汽用量 (kg/h) Vapor consumption (kg/h)	120	240	360	480	
冷却水量 (t/h) Cooling water volume (t/h)	4	8	11	12	
外形尺寸 (m) Overall dimension (m)	2x1.2x2.8	2.4x1.3x3	2.6x1.3x3.5	2.8x1.4x3.5	

注：本参数仅作参考，实际参数以图纸为准。

Note: This parameter is only for reference, the actual parameters is decided by drawings.



## SMZ系列单效升膜蒸发器

### ► 用途:

本设备适用于制药、生物、食品、化工等行业，常用于中药提取液、果汁、精细化工溶液等蒸发。

### ► 特点:

- 采用长管加热器，蒸发时物料在管内呈膜状上升，蒸发时间短，一次蒸发达到浓度要求，是一种高效连续蒸发器。设备内外精密抛光，符合GMP要求。
- 设备主要由加热器、蒸发器、消泡器、冷凝器、受液罐等组成。
- 采用减压操作，蒸发温度低、速度快，各仪表阀门配置合理方便操作。



## SMZ series Climbing Film Evaporator of Single-effect

### ► Usage:

This equipment is applied to evaporate extracting liquid from Chinese traditional medicine, juice, fine chemical liquid etc. used in such fields as pharmacy, biology, food and chemical industry etc.

### ► Characteristics:

- With long pipe heater, when evaporating, materials in pipe are uprising like film. Evaporating time is short. Once vapor can attain required density. It's a high-effective evaporator. It's polished in both internal and external side in accordance with GMP requirements.
- It's mainly made up of heater, evaporator, foam-breaker, and condenser and receiver etc.
- With decompressing operation, the temperature of evaporating is low and speed is higher. Each instrumentation valve is well arranged for easier operation.

注：依据客户需求进行设计 Technical variables are required by clients.

技术参数:	Technical variables					
参数/型号 Parameters/Model	SMZ-300	SMZ-500	SMZ-750	SMZ-1000	SMZ-2000	SMZ-3000
蒸发能力(清水)(kg/h) Evaporating capacity (kg/h)	300	500	750	1000	2000	3000
加热面积(m <sup>2</sup> ) Heating area (m <sup>2</sup> )	5.2	8	12	16	32	51
冷凝面积(m <sup>2</sup> ) Condensing area (m <sup>2</sup> )	6	11	15	20	40	65
蒸汽用量(kg/h) Vapour consumption (kg/h)	330	550	820	1100	2200	3300
冷却水量(t/h) Cooling water volume (t/h)	6	10	15	20	40	60
外形尺寸(m) Overall dimension (m)	2.5x1x5	2.7x1x5	3x1.2x5	3.2x1.2x5.5	4x1.4x6	5x1.8x6

注：本参数仅作参考，实际参数以图纸为准。

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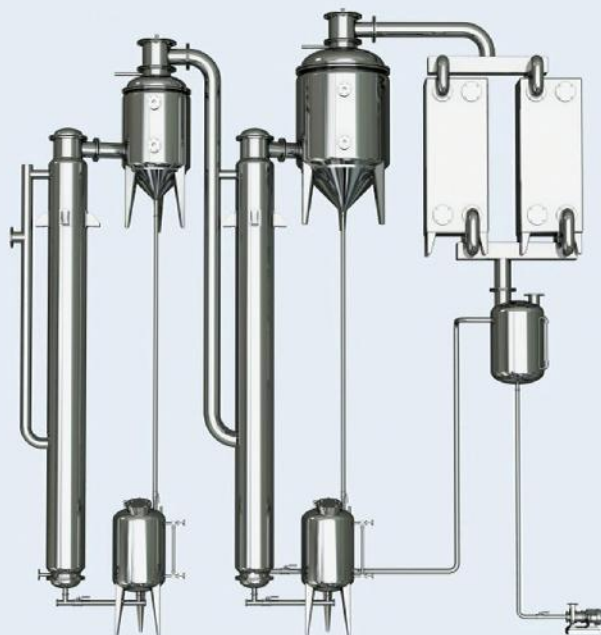
## SMZ II 系列双效升膜蒸发器

### ► 用途：

本设备适用于制药、生物、食品、化工等行业，常用于中药提取液、果汁、精细化工溶液等蒸发。

### ► 特点：

- 采用长管加热器，蒸发时物料在管内呈膜状上升，蒸发时间短，一次蒸发达到浓度要求，是一种高效连续蒸发器。一次蒸汽的消耗低。
- 设备内外精密抛光，符合GMP 要求。
- 设备主要由一、二效加热器、一、二效蒸发器、消泡器、冷凝器、受液罐等组成。
- 采用减压操作，蒸发温度低、速度快，各仪表阀门配置合理方便操作。



## SMZ II series Climbing Film Evaporator Of Double-effect

### ► Usage:

This equipment is applied to evaporate extracting liquid from Chinese traditional medicine, juice, fine chemical liquid etc., used in such fields as pharmacy, biology, food and chemical industry etc.

### ► Characteristics:

- With long pipe heater, when evaporating, materials in pipe are uprising like film. Evaporating time is short. Once vapor can attain required density. It's a high-effective evaporator.
- It's polished in both internal and external side in accordance with GMP requirements.
- It's mainly made up of heater, evaporator, foam-breaker, condenser and receiver etc.
- With decompressing operation, the temperature of evaporating is low, and speed is higher. Each instrumentation valve is well arranged for easier operation.

注：依据客户需求进行设计 Technical variables are required by clients.

技术参数：		Technical variables				
参数/型号 Parameters/Model	SMZII -300	SMZII -500	SMZII -750	SMZII -1000	SMZII -2000	SMZII -3000
蒸发能力 (清水) (kg/h) Evaporating capacity (kg/h)	300	500	750	1000	2000	3000
加热面积 (m <sup>2</sup> ) Heating area (m <sup>2</sup> )	5.2x2	8x2	12x2	16x2	32x2	51x2
冷凝面积 (m <sup>2</sup> ) Condensing area (m <sup>2</sup> )	6	11	15	20	40	65
蒸汽用量 (kg/h) Vapor consumption (kg/h)	165	275	820	550	1100	1650
冷却水量 (t/h) Cooling water volume (t/h)	4.2	7	10.5	14	28	42
外形尺寸 (m) Overall dimension (m)	2.5x1x5	2.7x1x5	4x1.2x5	4.2x1.2x5.5	5x1.4x6	6x1.8x6

注：本参数仅作参考，实际参数以图纸为准。

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蒸发浓缩设备  
Evaporating and Concentrating Equipment

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旭阳机械制造装备

## RWZ系列热泵节能蒸发器

### ► 用途:

本设备适用于制药、生物、食品、化工等行业，常用于中药提取液、精细化工溶液等蒸发。

### ► 特点:

- 采用热泵射流增压措施，将部分二次蒸汽返回一效加热器以充分利用，节能效果显著。设备内外精密抛光，符合GMP要求。
- 设备主要由加热器、热压泵、蒸发器、消泡器、冷凝器、受液罐等组成。
- 采用减压操作，蒸发温度低、速度快，各仪表阀门配置合理方便操作。

## RWZ series Evaporator of Energy Conservation of Heat Pump

### ► Usage:

This equipment is applied to evaporate extracting liquid from Chinese traditional medicine, fine chemical liquid etc. used in such fields as pharmacy, biology, food and chemical industry etc.

### ► Characteristics:

- With pressurizing of heat pump jetting, it can use recycled vapor back to first-effect heater abundantly, which economizes energy remarkably. It's polished in both internal and external side in accordance with GMP requirements.
- It's mainly made up of heater, heat pump, evaporator, foam-breaker, condenser and receive tank etc.
- With decompressing operation, the temperature of evaporating is low, and speed is higher. Each instrumentation valve is well arranged for easier operation.



### 技术参数:

参数/型号 Parameters/Model	Technical variables					
	RWZ-500	RWZ1000	RWZ-1500	RWZ-2000	RWZ-2500	RWZ-3000
蒸发能力 (清水) (kg/h) Evaporating capacity (kg/h)	500	1000	1500	2000	2500	3000
加热面积 (m <sup>2</sup> ) Heating area (m <sup>2</sup> )	5+5	10+10	15+15	20+20	25+25	30+30
冷凝面积 (m <sup>2</sup> ) Condensing area (m <sup>2</sup> )	9	18	25	36	45	54
蒸汽用量 (kg/h) Vapor consumption (kg/h)	280	570	850	1140	1420	1710
冷却水量 (t/h) Cooling water volume (t/h)	9	18	25	36	45	54
外形尺寸 (m) Overall dimension (m)	5x1.2x3.5	5.5x1.2x4	5.5x1.2x4	6x1.4x4.5	6x1.4x4.5	6x1.5x5

注：本参数仅作参考，实际参数以图纸为准。

Note: This parameter is only for reference, the actual parameters is decided by drawings.

## WZ系列单效外循环蒸发器

### ► 用途:

本设备适用于制药、生物、食品、化工等行业，常用于中药提取液、精细化工溶液等蒸发。

### ► 特点:

- 该设备结构紧凑，占地面积小。内外精密抛光，符合GMP要求。
- 设备主要由加热器、蒸发器、消泡器、冷凝器、受液罐等组成。
- 采用常/减压操作，蒸发温度低、速度快，各仪表阀门配置合理方便操作。



## WZ series Evaporator of Single-effect External Recycle

### ► Usage:

This equipment is applied to evaporate extracting liquid from Chinese traditional medicine and fine chemical liquid etc. used in such fields as pharmacy, biology, food and chemical industry etc.

### ► Characteristics:

- The equipment has precise structure and small space available. It's polished in both internal and external side in accordance with GMP requirements.
- It's mainly made up of heater, evaporator, foam-breaker, condenser and receive tank etc.
- With normal pressure or decompressing operation, the temperature of evaporating is low, and speed is higher. Each instrumentation valve is well arranged for easier operation.

### 技术参数:

参数/型号 Parameters/Model	WZ-300	WZ-500	WZ-750	WZ-1000	WZ-2000	WZ-3000
蒸发能力(清水) (kg/h) Evaporating capacity (kg/h)	300	500	750	1000	2000	3000
加热面积 (m <sup>2</sup> ) Heating area (m <sup>2</sup> )	4.5	7.5	11.5	15	30	48
冷凝面积 (m <sup>2</sup> ) Condensing area (m <sup>2</sup> )	6.3	10.5	15	21	42	67
蒸汽用量 (kg/h) Vapor consumption (kg/h)	330	550	820	1100	2200	3300
冷却水量 (t/h) Cooling water volume (t/h)	11	18	28	36	73	110
外形尺寸 (m) Overall dimension (m)	2.5x1x3.2	2.7x1x3.5	3x1.2x3.7	3.2x1.2x4	4x1.2x4.7	5x1.4x5

注：本参数仅作参考，实际参数以图纸为准。

Note: This parameter is only for reference, the actual parameters is decided by drawings.



## QWZ系列强制循环浓缩器

### ► 用途:

本设备适用于制药、酿酒、食品、化工等行业，特别适用于高浓度物料的蒸发。

### ► 特点:

- 设备内外精密抛光、设计合理、操作方便符合GMP要求。
- 采用强制泵外循环蒸发方式，充分利用二次蒸汽，高效节能，高真空度下操作使溶液不会产生高温变性。
- 设备主要由加热器、分离器、消泡器、冷凝器、强制循环泵、电器控制箱等组成。

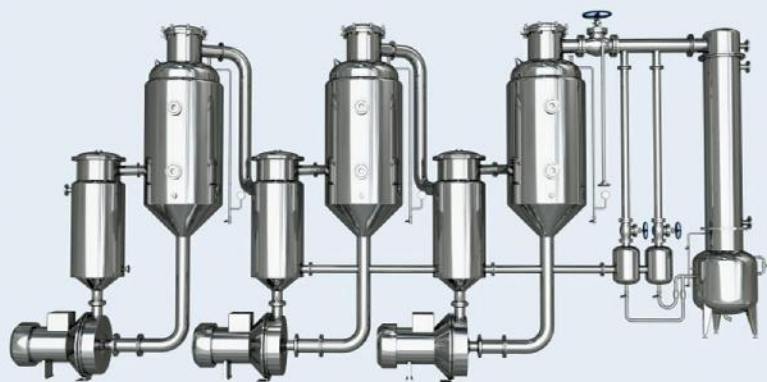
## QWZ series Concentrator of Forced Circulation Evaporation

### ► Usage:

This equipment is applied to such fields as pharmacy, making wine, food, and chemical industry etc. especially evaporating high density liquid.

### ► Characteristics:

- This equipment is well designed and easily operated. It's polished in both internal and external side in accordance with GMP requirements.
- This equipment is heated by heating pump, high efficient and energy-saving. Under circumstance of high vacuum, it protects solution from high temperature denaturation.
- It's made up of heater, separator, foam-breaker, condenser, vacuum heating pump, wind-cooling condenser, and forced circulating pump, electric controller cabinet etc.



技术参数:	Technical variables			
参数/型号 Parameters/Model	QWZ-1000	QWZ-2000	QWZ-3000	QWZ-4000
蒸发能力(清水) (kg/h) Evaporating capacity (kg/h)	1000	2000	3000	4000
加热面积 (m <sup>2</sup> ) Heating area (m <sup>2</sup> )	9+9+9	18+18+18	27+27+27	36+36+36
冷凝面积 (m <sup>2</sup> ) Condense area (m <sup>2</sup> )	15	30	45	60
蒸汽用量 (kg/h) Vapour consumption (kg/h)	500	1000	1500	2000
冷却水量 (t/h) Cooling water volume (t/h)	15	30	45	60
外形尺寸 (m) Overall dimension (m)	8x1.2x3.5	9.5x1.2x4.2	10x1.2x4.5	12x1.4x5

注：本参数仅作参考，实际参数以图纸为准。

Note: This parameter is only for reference, the actual parameters is decided by drawings.

## JS系列酒精精馏塔

### ► 用途:

本设备适用于酒精、甲醇、丙酮等与水的二元混合物的精馏分离，是一种高效精馏设备。

### ► 特点:

- 采用不锈钢波纹填料，表面积大，气液接触充分，气体阻力小。
- 设备主要由塔釜、塔节、冷凝器、平衡罐、冷却器、转子流量计、连接管等组成。
- 该设备采用冷凝自流回流方式，操作简单方便，可配PLC自动控制。



## JS series Alcoholic Distillation Tower

### ► Usage:

This equipment is useful for distillation separation of binary mixture like alcohol, methanol, acetone etc., It is a high efficiency product.

### ► Characteristics:

- Materials filled by stainless steel ripple has such functions like large specific surface area, enough contact between air and liquid, and less air resistance.
- It's mainly made up of column reactor, tower sections, condenser, balance tank, cooler, flowrator and connection pipe etc.
- This equipment adopts self-refluxing of condenser for easier operation. It can be equipped PLC automatic control.

技术参数:	Technical variables					
参数/型号 Parameters/Model	JS-200	JS-300	JS-400	JS-500	JS-600	JS-800
回收能力(L/h) Recycling capacity(kg/h)	40-60	80-100	140-180	280-320	400-500	650-700
塔釜容积 (L) Volume of column reactor (L)	900	1100	1600	2000	2500	2700
加热面积 (m <sup>2</sup> ) Heating area (m <sup>2</sup> )	1.5	3	5.0	8	12	20
冷凝面积 (m <sup>2</sup> ) Condensation Area (m <sup>2</sup> )	4.5	9	16	25	36	60
冷却面积 (m <sup>2</sup> ) Cooler Area (m <sup>2</sup> )	1	1.5	3	3	3	3
蒸汽用量 (kg/h) Vapor Consumption (kg/h)	80	160	320	560	1200	2000
冷却水量 (t/h) Volume of Cooling water (t/h)	3	6	12	16	24	40
外形尺寸 (m) Overall Dimension (m)	1.5x1x8	2x1.2x10	2.5x1.5x12	3x1.6x13	3.5x2x13	3.5x2x14

注：本参数仅作参考，实际参数以图纸为准。

Note: This parameter is only for reference, the actual parameters is decided by drawings.

## FXTQ系列芳香油提取罐

► 用途：

本设备适用于制药、食品、化妆品行业，常用于植物的芳香油提取，是中药生产中的一种专用设备。

► 特点：

- 设备内外精密抛光，符合GMP要求。
- 设备主要由蒸馏罐、吊篮、冷凝器、冷却器、油水分离器等组成。
- 该设备是我公司最新推出的产品，它为芳香油提取提供了一种新方法。



## FXTQ series Extraction Tank for Perfume Oil

► Usage:

This equipment is applied to extract perfume oil from plants in pharmacy, food and cosmetics etc. It's a special equipment in traditional medicine production.

► Characteristics:

- It's polished in both internal and external side in accordance with GMP requirements.
- It is made up of distillation tank, cradle, condenser, cooler, water-oil separator etc.
- This equipment is a new product from our company, and it is a new way to extract perfume oil.

技术参数：

Technical variables

参数/型号 Parameters/Model	FXTQ-0.5	FXTQ-1.0	FXTQ-2.0	FXTQ-3.0
提取罐容积 (L) Distillation Tank volume (L)	500	1000	2000	3000
冷凝面积 (m <sup>2</sup> ) Condensing area (m <sup>2</sup> )	1.6	3.25	6.5	10
冷却面积 (m <sup>2</sup> ) Cooling area (m <sup>2</sup> )	0.7	1.4	2.8	4
蒸汽用量 (kg/h) Vapor consumption (kg/h)	90	175	350	520
冷却水量 (t/h) Cooling water volume (t/h)	3.5	6.3	13	19

注：本参数仅作参考，实际参数以图纸为准。

Note: This parameter is only for reference, the actual parameters is decided by drawings.

## PN系列夹层浓缩锅

## PN series Sandwich Concentration Cauldron

► 用途：

本设备适用于制药、生物、食品、化工等行业，常用于中药提取液、精细化工溶液等蒸发。这是一种开放式的蒸发器，也可作为配料罐使用，是最原始的一种设备。

► 特点：

- 采用夹套加热方式，可获得效高的成品浓度，设备可作90度翻转方便出料与清洗。设备内外精密抛光，符合GMP要求。
- 设备主要由半球形罐、支架、翻转装置等组成。
- 可以选择蒸汽加热、电加热、导热油加热等方式，还可加装搅拌装置。

► Usage:

This equipment, an opening evaporator is applied to evaporate extracting liquid from Chinese traditional medicine, fine chemical liquid etc. and also can act as mixing tank. It's a kind of the most primitive equipment.

► Characteristics:

- Clamping heating makes high concentration. It can turn over to 90 degree, which makes discharging and cleaning more convenient. It's polished in both internal and external side in accordance with GMP requirements.
- It's made up of hemispherical jar, shelf, turnover device etc.
- It can adopt steam heating, electric heating, heat-conducting oil heating, and can be installed mixer.



技术参数:	Technical variables			
参数/型号	PN-500	PN-1000	PN-1500	PN-2000
Parameters/Model				
蒸发能力 (kg/h)	100	200	300	400
Evaporating capacity (kg/h)				
加热面积 (m <sup>2</sup> )	1.57	2.5	3.5	4
Heating area (m <sup>2</sup> )				
蒸汽用量 (kg/h)	130	260	390	480
Vapor consumption (kg/h)				
外形尺寸 (m)	1.2x1.2x1.2	1.6x1.6x1.4	1.8x1.8x1.4	1.8x1.8x1.5
Overall dimension (m)				
罐体有效容积 (m <sup>3</sup> )	500	1000	1500	2000
Available volumn(m <sup>3</sup> )				

注：本参数仅作参考，实际参数以图纸为准。

Note: This parameter is only for reference, the actual parameters is decided by drawings.



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## ZG系列贮罐

### ► 用途:

本设备适用于制药、食品、化工、乳品等行业的物料贮及中转。

### ► 特点:

- 本设备适用于中药、食品、饮料、化工行业等液体物料的贮存。
- 罐体材质选用优质不锈钢制造，内表面镜面抛光，外表面镜面抛光或亚光处理，整机符合GMP标准要求。



## ZG series Storage Tank

### ► Usage:

This equipment is suitable for storing and transferring the material in pharmaceutical, foodstuff, chemical and dairy industry, etc.

### ► Characteristics:

- This liquid depositing tank is applied to storing the Chinese traditional herbs, foodstuff, drinks and chemical products.
- Its parts contacting the materials are made of stainless steel. The inner surface is mirror polishing. Its surface has been polished and finely machined or abraded with abrasive paper. The integral machine is met with the standard of GMP requirements.

### 技术参数:

参数/型号 Parameters/Model	ZG-0.5	ZG-1.0	ZG-3.0	ZG-5.0	ZG-10	ZG-20
容积 (m <sup>3</sup> ) Volume of column reactor (m <sup>3</sup> )	0.5	1.0	3.0	5.0	10	20
外形尺寸 (mm) Overall dimension (mm)	Φ800x850	Φ1000x1100	Φ1500x1500	Φ1600x2200	Φ2000x2800	Φ2200x4500

注：本参数仅作参考，实际参数以图纸为准。

Note: This parameter is only for reference, the actual parameters is decided by drawings.

## CXC系列层析柱

### ► 用途:

本设备适用于制药、生物、食品、化工等行业，常用于各种溶液的脱色、提纯、去除杂质。

### ► 特点:

- 本设备内外精密抛光，符合GMP要求。
- 进液装置采用布液盘管，液体分布均匀。
- 上下端全部为快开装置，更换物料方便简单。
- 筒体带板框视镜，有利观察。



## CXC series Chromatography Column

### ► Usage:

This equipment is useful for discoloration, extraction, weeding of each solution in such fields as pharmacy, biology, food, chemical industry etc.

### ► Characteristics:

- It's polished in both internal and external side in accordance with GMP requirements.
- Inlet liquid device adopts spreading liquid. Liquid is evenly allocated.
- It's very easy to exchange the materials with fast turn-on device in both the top and bottom.
- The column is equipped with sightglass to observe conveniently.

技术参数:	Technical variables			
参数/型号 Parameters/Model	CXC-200	CXC-500	CXC-600	CXC-800
直径 (mm) Diameter (mm)	Φ200	Φ500	Φ600	Φ800
高度 (mm) Height (mm)	1500	2500	3000	4000
容积 (L) Volume (L)	48	490	850	2000

注：本参数仅作参考，实际参数以图纸为准。

Note: This parameter is only for reference, the actual parameters is decided by drawings.



## PLG系列配料罐

### ► 用途:

本设备适用于制药、生物、食品、化工等行业，常用于各种溶液的配制。

### ► 特点:

- 采用夹套加热或冷却方式，罐体加装搅拌器。设备内外精密抛光，符合GMP要求。
- 设备主要由内胆、夹套、外保温、搅拌器等组成。
- 各仪表、阀门、视镜配置合理方便操作。



## PLG series Mixing Tank

### ► Usage:

This equipment is applied to solution preparation in pharmacy, biology, food, chemical industry etc.

### ► Characteristics:

- It's heated or cooled by clamp ferrule, and installed with stirrer in the body. It's polished in both internal and external side in accordance with GMP requirements.
- It's mainly made up of inner liner, clamp ferrule, external thermal insulation, mixer, etc.
- Each instrumentation, valve or viewing lens is well arranged for easier operation.

### 技术参数:

参数/型号 Parameter/Model	PLG-500	PLG-1000	PLG-2000	Technical variables al Variables
罐内容积 (L) Volume in jar (L)	500	1000	2000	3000
换热面积 (m <sup>2</sup> ) Area of heat-exchanging (m <sup>2</sup> )	2.5	4	6.8	Φ800
搅拌转速 (rpm) Rotate speed of mixing (rpm)	41	41	41	41
电机功率 (kw) Motor Power (kw)	0.75	1.1	2.2	2000
外形尺寸 (m) Overall Dimension (m)	1.1x1.1x2.3	1.2x1.2x2.7	1.4x1.4x3.2	1.7x1.7x3.5

注：本参数仅作参考，实际参数以图纸为准。

Note: This parameter is only for reference, the actual parameters is decided by drawings.

## 1. FZG系列方形真空干燥箱, 2. YZG系列圆形真空干燥箱

### ► 用途:

本设备适用于在高温下会变质、分解的热敏性物料的干燥, 被广泛地应用在制药、化工、食品、电子等行业。

### ► 特点:

- 真空下物料溶液的沸点降低, 使干燥器的传热推动力增大, 因此对一定的传热量可以节省干燥器的传热面积。
- 蒸发操作的热源可采用低压蒸汽或废热蒸汽, 也可采用电加热。
- 在干燥前可进行消毒处理, 干燥过程中无任何不纯物混入, 符合GMP要求。
- 属于静态式真空干燥器, 故干燥物料的形体不会损坏。



## 1. FZG series Square Vacuum Drying Oven, 2. YZG series Circular Vacuum Drying Oven

### ► Usage:

This equipment is suitable to dry thermo-sensitive materials easily metamorphic and decomposed. It's widely used in pharmacy, chemical industry, food, electrics etc.

### ► Characteristics:

- Under vacuum, boiling points of materials is low, which increases heat-exchanging driving force of dryer. So this equipment can save heat-exchanging area of dryer.
- The heating source of evaporation can be low-pressure, thermal-waste evaporation or electric heater.
- Before drying, sterilize it. During drying, there is no impurity inside, as standard of GMP requirements.
- It's a static vacuum dryer so the shape of drying materials will be not damaged.

技术参数:	Technical variables			
参数/型号 Parameters/Model	YZG-600	YZG-1000	YZG-1400	FZG-15
箱内尺寸(mm) Cabinet dimension(mm)	Φ600×900	Φ1000×1577	Φ1400×1527	1500×1400×1220
箱外尺寸(mm) Overall dimension(mm)	1000×750×950	1693×1190×1500	2386×1657×1920	1513×1924×2060
烘架层数 Layers of baking	4	6	8	8
层间距离(mm) Distance between layers(mm)	81	102	102	122
烘盘尺寸(mm) Size of baking plate(mm)	310×600×45	460×640×45	460×640×45	460×640×45
烘盘数 Amount of baking plate	4	12	32	32
烘架管内充压(Mpa) Pressure in baking pipe(Mpa)	≤0.2			
箱内温度(°C) Temperature in cabinet(°C)	≤150	≤150	≤150	≤150
箱内空载真空度(Mpa) Vacuum degree in cabinet(Mpa)	-0.09~0.096			

注: 本参数仅作参考, 实际参数以图纸为准。

Note: This parameter is only for reference, the actual parameters is decided by drawings.





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