

注射剂/整体解决方案

Turnkey Solution for Sterile Injection

- 大容量注射剂 Large Volume Injections
- 小容量注射剂 Small Volume Injections
- 口服液生产线 Oral liquid Production Line
- 冻干产品制剂 Freeze-Dried Product Preparations
- 预灌装注射剂 Pre-Filled Injections
- 体外诊断试剂 In-Vitro Diagnostic Agents

固体制剂/整体解决方案

Turnkey Solution for Solid Preparation

- 实验室固体制剂项目 Laboratory Solid Preparation Project
- 生产型固体制剂项目 Production Solid Preparation Project
- 密封型固体制剂项目 Sealed Solid Preparation Project
- 定制化固体制剂项目 Customized Solid Preparation Project



中药制剂/整体解决方案

Turnkey Solution for Herbal Preparation

- 中药提取项目 Chinese Medicine Extraction Project
- 生物发酵项目 Biological Fermentation Projects

生物制药/整体解决方案

Turnkey Solution for Biopharmaceutical

- 血液制品项目 Blood Products Project
- 菌苗/疫苗项目 Seedlings/Vaccine Program
- 单抗生产项目 Monoclonal Antibody Production Project

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TURNKEY SOLUTION FOR
ASEPTIC GUARANTEE SYSTEM

无菌保障系统 整体解决方案

致力于自动化·信息化·连续化·国际化
制药工程整体解决方案

Committed to the specialization, automation,
intelligence and informatization of pharmaceutical turnkey solution

SHINVA
SHINVA MEDICAL
INSTRUMENT CO.,LTD.

SHINVA 新华医疗

为健康创新界

新华医疗将以山东健康集团丰富的医养资源为依托，坚持创新引领，做强做优主业，助力健康中国，惠及人类健康。

BETTER INNOVATION BETTER LIVES

Relying on the abundant medical and pension resources of Shandong Healthcare Industry Development Group Co., Ltd, SHINVA will insist on innovative leadership, strengthen and improve our core business, help build a healthy China and benefit global health.

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DESIGN INSTITUTE

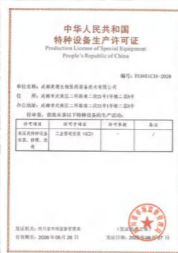
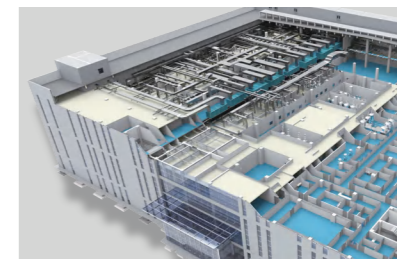
新华英德医药工程设计院

在三十余年的技术服务与项目实践中,英德生物逐步形成专业齐全,经验丰富的医药工程设计团队。

In more than 30 years of technical service and project practice, Bio-YD has gradually formed a professional and experienced pharmaceutical engineering design team.

基于新华医疗在国内广泛应用的制药装备和工艺控制系统、在制药领域的多年专注、以及顶尖的制药工艺和工厂建设经验,可以确保我们的设计满足最新GMP的要求,符合相关法规及标准,同时紧密结合业主的工艺需求,为业主提供整体解决方案。

Based on SHINVA's widely used pharmaceutical equipment and process control system in China, years of focus in pharmaceutical industries, advanced pharmaceutical process and factory construction experience, we can ensure that our design meets the requirements of the latest GMP, conforms to relevant laws and standards, and at the same time we can provide the turnkey solution for the user according to the process requirements.



Turnkey Solution for Aseptic Guarantee System 无菌保障系统整体解决方案

新华医疗致力于为制药企业生产车间无菌保障领域提供系统化的解决方案，为用户提供从流程布局设计、整体配置方案、设备确认验证、人员培训等全流程服务。作为无菌保障系统解决方案领导者，新华医疗可提供湿热灭菌、干热灭菌、低温灭菌、清洗技术、干燥技术、屏障技术、信息化技术、无菌保障耗材相关的单机产品与系统化解决方案。



通用蒸汽灭菌器
Steam sterilizer



快速冷却灭菌器
Rapid cooling steam sterilizer



生物实验灭菌器
Biological lab steam sterilizer



粉类干燥灭菌器
Powder steam sterilizer



动态层流灭菌干燥一体机
Dynamic laminar flow sterilization and drying integrated machine



蒸汽发生器
Steam generator



蒸汽品质检测仪
Steam Quality Detector



安瓿蒸汽灭菌器
Ampoule Steam Sterilizer



安瓿水浴灭菌器
Ampoule Water Sterilizer



水浴灭菌器
Super-Heated Water Sterilizer



通风干燥式灭菌器
Air Steam Mixture Sterilizer



干热灭菌器
Dry heat sterilizer



制药用器具清洗干燥机
Pharmaceutical grade washer



实验室清洗机
Laboratory Cleaning Machine



料斗清洗站
Hopper washing station



工业洗衣机
Industrial washing machine



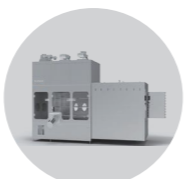
PI-AU 无菌检查隔离器
PI-AU aseptic test isolator



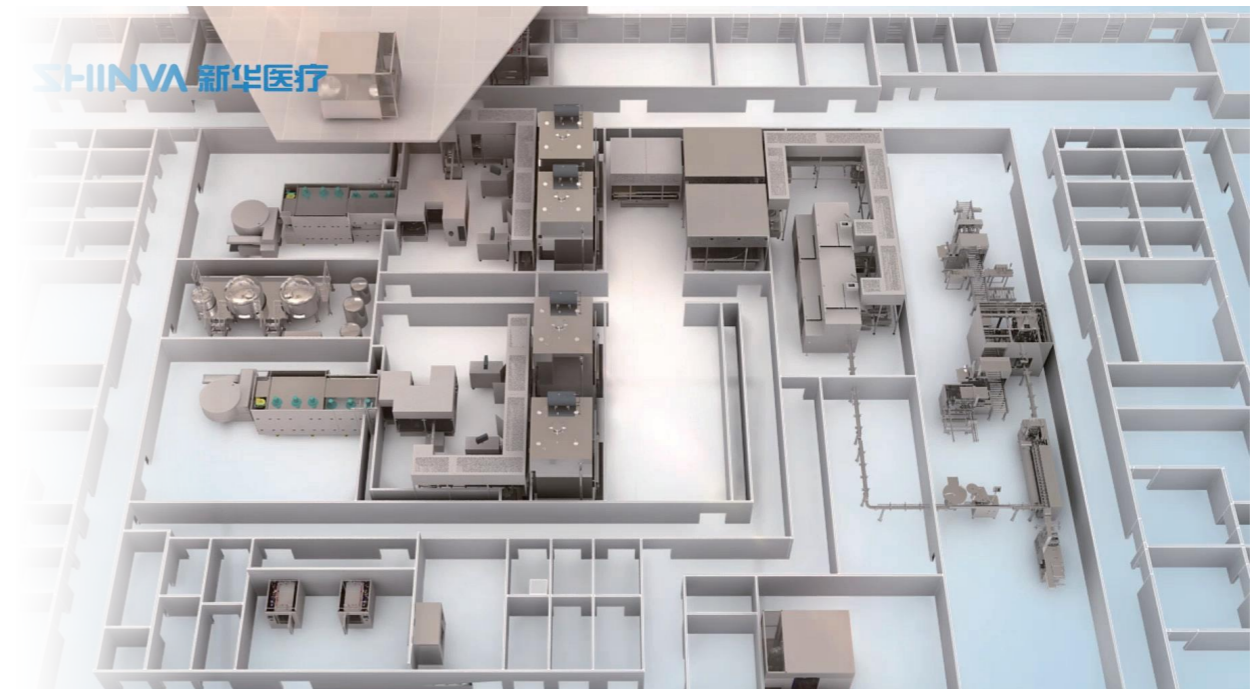
PI-C 负压防护隔离器
PI-C negative pressure protective isolator



无菌生产隔离器
Aseptic production isolator



组合型无菌转运系统
Combined sterile transport system



汽化过氧化氢灭菌传递舱
VHP pass box



移动式电离过氧化氢灭菌器
Mobile Ionized Hydrogen Peroxide Sterilizer



集成式汽化过氧化氢灭菌系统
Integrated vaporized hydrogen peroxide sterilization system



移动式汽化过氧化氢灭菌器
Mobile vaporized hydrogen peroxide sterilizer



原料药桶自动清洗灭菌系统
Automatic API Barrel Cleaning and Sterilizing System



无菌保障管理平台
Sterile assurance management platform



洁净服智能管理系统
Cleanroom garments intelligent management system

SGL series

Steam Sterilizer
SGL系列 通用蒸汽灭菌器



Product Introduction 产品简介

脉动真空的工艺过程保证了空气在腔体灭菌时完全被排除，从而确保饱和蒸汽能够充满整个腔体并且能够渗透到机器零部件和多孔产品中。

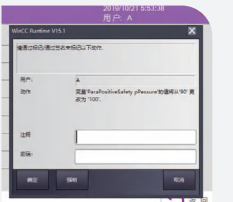
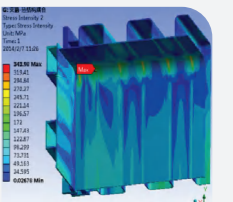
该灭菌器可广泛应用于生物制药、医疗卫生、实验动物等领域，对灭菌要求极高的工器具、无菌衣、胶塞、铝盖、原辅料、过滤器、培养基等物品的灭菌处理。

Initial evacuation of the air by vacuum/steam pulse ensures thorough air removal. Saturated steam finds its way to fill the whole chamber and penetrate into porous and solid load.

The sterilizer can be widely used in the fields of pharmaceutical bioengineering, health care, laboratory animals and so on. It can be used in sterilization process for tools, instruments, sterile garments, rubber stopper, aluminum cap, raw materials, filter and culture medium which have very high sterilization requirements.

Product Advantages 产品优势

- 全自动生产线，机器人自动焊接、自动磨光工艺；
Automatic robot welding, automatic polishing, reliable quality;
- 全不锈钢主体材质组合，设计使用寿命可达15年；
Stainless steel main body, design service life up to 15 years;
- 全新节能、降噪、无压控温排放系统，经济、安全、环保；
Brand new energy-saving, noise-reducing, non-pressure temperature control drain system economic, safe and environment friendly;
- 温度压力全闭环控制，温度控制更均匀；
Temperature and pressure fully closed-loop control, uniform temperature control;
- 智能化控制系统，符合FDA审计追踪要求。
Intelligent control system that meet FDA audit trail requirements.



Product Use 产品用途

- | | |
|---|---|
| <ul style="list-style-type: none"> 多孔负载
纺织品、滤芯、胶塞、ATF系统纤维柱等 | <ul style="list-style-type: none"> Porous load
Fabric, filter element, rubber stopper, fiber column of ATF system, etc. |
| <ul style="list-style-type: none"> 硬质负载
工器具、玻璃器皿、金属容器等 | <ul style="list-style-type: none"> Hard load
Tools, glassware, metal containers, etc. |
| <ul style="list-style-type: none"> 液体负载
培养基等非密闭液体 | <ul style="list-style-type: none"> Liquid load
Non-sealed liquid such as culture medium |



SRC series

Rapid Cooling Steam Sterilizer
SRC系列 快速冷却灭菌器



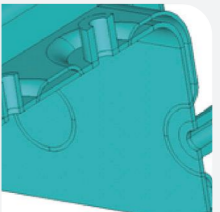
Product Introduction 产品简介

SRC系列快速冷却灭菌器配置新华独特的夹层水冷系统，可实现灭菌后的快速冷却功能。独有的专利主体结构，保证了夹套覆盖面积的同时大大降低了夹套容积，节能节水。该系列灭菌器适用于对灭菌要求极高的工器具、玻璃器皿、无菌衣、医用敷料、过滤器等物品灭菌，尤其适用于需要快速冷却的开口液体的灭菌处理。

SRC series sterilizer can fill water into its specially designed jacket to achieve rapid cooling after sterilization stage is completed. The unique patent structure provides adequate jacket coverage and greatly reduces jacket volume and water consumption. This series sterilizer is fit for the materials requiring strict sterilization conditions, including tools, glass ware, sterile clothing, surgical dressing, filter, etc., especially suitable for the handling of liquid in open container.

Product Advantages 产品优势

- 新华专利夹套结构，节能、节水；
SHINVA patent jacket structure, energy-saving and water-saving;
- 全自动生产线，机器人自动焊接、自动磨光工艺；
Automatic robot welding, automatic polishing, reliable quality;
- 温度压力全闭环控制，温度控制更均匀；
Temperature and pressure fully closed-loop control, uniform temperature control;
- 全新节能、降噪、无压控温排放系统，经济、安全、环保；
Brand new energy-saving, noise-reducing, non-pressure temperature control drain system is economic, safe and environment friendly;
- 夹套注水快速冷却系统，液体降温速度大幅缩短。
Jacket cooling system greatly shortens the cooling time of liquid cycle.



Liquid Cooling Rate 液体冷却速度对比

冷却方式 Cooling Method	灭菌物品 Sterilization Articles	培养皿 (盛培养基) Culture Dish (Culture Medium)	20L铝桶 (盛纯化水) 20L Aluminum Drum (Purified Water)	250ml大输液 (开放式) 250ml Large IV Open Type	500ml大输液 (开放式) 500ml Large IV Open Type
夹层水冷 Jacket Water Cooling		0.54X分钟 0.54X min	0.7Y分钟 0.7Ymin	0.67Z分钟 0.67Zmin	0.58T分钟 0.58Tmin
常规风冷 Air Cooling		X分钟 Xmin	Y分钟 Ymin	Z分钟 Zmin	T分钟 Tmin

说明：数据来自型号：SRCH-A-650D的不同冷却方式效果验证，冷却温度由121°C降至80°C。
Explain: Data from effect verification of different cooling methods of SRCH-A-650D, the temperature drops from 121°C to 80°C.

Product Use 产品用途

- 多孔负载**
Porous load
纺织品、滤芯、胶塞、ATF系统纤维柱等
Fabric, filter element, rubber stopper, fiber column of ATF system, etc.
- 硬质负载**
Hard load
工器具、玻璃器皿、金属容器等
Tools, glassware, metal containers, etc.
- 液体负载**
Liquid load
培养基等非密闭液体
Non-sealed liquid such as culture medium



SBE
series

Biological Lab Steam Sterilizer

SBE系列 生物实验灭菌器



Product Introduction 产品简介

SBE系列生物实验灭菌器按照三级生物安全要求设计，具备废气处理、废水处理与生物隔离功能，可充分保证操作人员、环境的安全。灭菌器可应用于对含有高致病性细菌病毒物品的动物尸体、生物制品、器皿、无菌衣、医用敷料、疾病材料等物品的灭菌处理。

SBE Series Biological Safe lab (BSL) sterilizer is designed according to the three levels of biosafety requirements, with waste gas treatment, waste water treatment and biological isolation function, which can ensure the safety of operators and environment. This series sterilizer can be used to sterilize animal carcasses, biological products, vessel, sterile clothing, medical dressings, disease materials and other items containing highly pathogenic bacterial virus.

Product Advantages 产品优势

- 机器人自动焊接、自动磨光工艺，质量更可靠；
Automatic robot welding, automatic polishing, reliable quality;
- 全不锈钢主体材质组合，设计使用寿命可达15年；
Stainless steel main body, design service life up to 15 years;
- 全新节能、降噪、无压控温排放系统，经济、安全、环保；
Brand new energy-saving, noise-reducing, non-pressure temperature control drain system; economic, safe and environmentally friendly;
- 满足三级生物安全的废气废水处理系统、生物隔离系统；
The waste gas and waste water treatment system and the biological isolation system meet the biosafety level 3;
- 智能化控制系统，符合FDA审计追踪要求。
Intelligent control system that meet FDA audit trail requirements.



Product Use 产品用途

- 带毒废弃物
Toxic waste



SMP series

Powder Steam Sterilizer
SMP系列 粉类干燥灭菌器



Product Introduction 产品简介

粉类干燥灭菌器的工艺过程保证了空气在腔体灭菌时完全被排除，从而确保饱和蒸汽能够充满整个腔体并且能够渗透到中药粉类、颗粒、药材、片剂、制剂等中。加热与灭菌工序完全由直接注入的洁净蒸汽完成，并且通过夹层加热达到均匀受热的目的。初始阶段的预热，有效解决中药粉剂结块等现象，最后再由进一步的（简单的或多级的）排气以及由除菌过滤后的热空气进行最后排空来完成最终的干燥过程。

技术过程：预热除湿→脉动真空→快速加热→灭菌→热风快速干燥→结束。

该灭菌器可广泛应用于对灭菌及干燥要求高的中药粉末、颗粒药材等物品的灭菌及干燥处理。

The process of powder steam sterilizer ensures that the air is completely eliminated during sterilization, saturated steam enter the whole chamber and penetrate into herbal material, powder, granules, and tablets. Heating and sterilization is achieved by directly feeding clean steam, to achieve uniform heat distribution through the jacket heating & warming. Initial preheating prevents agglomeration of herbal powder. Final drying is finished by air exhaust (through one or more times air exhaust) and by replacing the moist air with sterile air.

Technical process: dehumidification by preheating→ air removal by pulse→fast heat up→sterilization→ rapid drying by hot air→end.

The sterilizer can be widely used in sterilization and drying for traditional Chinese medicine powder, granule medicine and other items which have very high requirements for sterilization and drying.

Product Advantages 产品优势

- 配置多种干燥方式，满足中药粉不同干燥需求；
Various drying methods are configured to meet different drying requirements of TCM powder;
- 机器人自动焊接、自动磨光工艺，质量更可靠；
Automatic robot welding, automatic polishing, reliable quality;
- 全新节能、降噪、无压控温排放系统，经济、安全、环保；
Brand new energy-saving, noise-reducing, non-pressure temperature control drain system is economic, safe and environmentally friendly;
- 多功能试验平台，可提供最佳灭菌工艺；
Multi-functional test platform to provide optimal sterilization process;
- 智能化控制系统，符合FDA审计追踪要求。
Intelligent control system that meet FDA audit trail requirements.



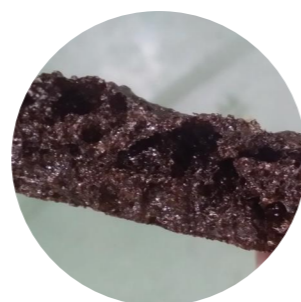
Product Use 产品用途

- 中药粉
TCM powder
- 中药材
TCM



Dynamic Laminar Flow Sterilization and Drying Integrated Machine

动态层流灭菌干燥一体机



Product Introduction 产品简介

动态层流灭菌干燥一体机是专门针对中药浸膏开发设计的一款革新性干燥设备，具有操作简单、温度均匀性好、干燥效率高、能耗低等特点。特别适合于多品种、中小批量，干燥温度50°C至90°C中药浸膏的干燥。

The dynamic laminar flow sterilization and drying integrated machine is an innovative drying equipment specifically designed for traditional Chinese medicine extracts. It has the characteristics of simple operation, good temperature uniformity, high drying efficiency, and low energy consumption. Especially suitable for drying traditional Chinese medicine extracts of various varieties, small and medium-sized batches, with a drying temperature of 50°C to 90°C.

Product Advantages 产品优势

- 解决中药浸膏干燥效率瓶颈，干燥效率高，真空爆炸式干燥技术相比传统设备效率提高200%以上；

Solve the bottleneck of traditional Chinese medicine extract drying efficiency, with high drying efficiency. Compared to traditional equipment, vacuum explosion drying technology improves efficiency by more than 200%;
- 解决中药浸膏实际生产与干燥工艺的符合性问题，设备生产过程稳定、工艺可控；干燥机理明确符合法规要求；

Solve the compliance issue between the actual production and drying process of traditional Chinese medicine extracts, ensure stable equipment production process and controllable process; The drying mechanism clearly meets regulatory requirements;
- 解决中药浸膏干燥设备杂菌污染问题，具备流通蒸汽灭菌功能；

Solve the problem of bacterial contamination in the drying equipment of traditional Chinese medicine extracts, and have the function of circulating steam sterilization;
- 解决中药浸膏干燥，中小批量，多品种的干燥困境，实际生产更灵活；

Solve the drying difficulties of traditional Chinese medicine extracts, small and medium-sized batches, and multiple varieties, making actual production more flexible;
- 解决中药制药设备能耗高的问题，此设备药品生产成本：1.06~1.49元/kg 相比传统设备降低50%以上。

Solve the problem of high energy consumption in traditional Chinese medicine pharmaceutical equipment, the production cost of this equipment is 1.06-1.49 yuan/kg, which is reduced by more than 50% compared to traditional equipment.



Product Parameters 产品参数

序号 No.	项目 Item	参数 Parameters			备注 Remarks
1	整机结构 Overall structure	矩形截面 (1370x1520) Rectangular section		矩形截面 (600x600) Rectangular section	
2	规格分类 Size classification	24 m ² (5 m ³)	12 m ² (2.5 m ³)	1 m ² (0.35 m ³)	
3	额定生产能力 Rated production capacity	200 kg / 6 h (湿) wet	100 kg / 6 h (湿) wet	12 kg / 6 h (湿) wet	干燥前湿料(推荐) Wet material before drying (recommended)
4	干燥盘数量 Number of drying trays	96个	48个	8个	
5	板层数量 Number of shelves	24块	12块	4块	
6	内车数量 Number of sterilization trolleys	2车	1车	无 none	可拆卸 Detachable

Steam Generator

蒸汽发生器



Product Introduction 产品简介

Clean S型 洁净电热蒸汽发生器由器身、电器控制组件、加水泵、电热管组、电子液位计等部分组成，具有各种自动控制功能，它通过电热元件加热在密闭容器内的水以产生高压蒸汽，与我公司生产的消毒灭菌设备配套使用，具有体积小、无污染、操作简便、工作可靠等优点。

The Clean S type clean electric steam generator is composed of a body, electrical control components, water adding pump, electric heating tube group, electronic liquid level gauge, and other parts. It has various automatic control functions. It heats water in a sealed container through electric heating elements to generate high-pressure steam, and is used in conjunction with our company's disinfection and sterilization equipment. It has the advantages of small size, pollution-free, easy operation, and reliable operation.

Main Technical Parameters 主要技术参数

额定工作电压 Rated working voltage	380 V / 50 Hz
额定电功率 Rated power	60/ 90 / 120 kW
额定蒸发量 Rated evaporation	80/120 / 160 Kg/h
设计压力 Design pressure	0.70 MPa
最高蒸汽压力 Maximum steam pressure	0.65 MPa
最高蒸汽温度 Maximum steam temperature	168 °C
设计热效率 Design thermal efficiency	98 %
工作压力 Working pressure	0~0.65 MPa (可根据需要调节) Adjustable as required
水源供给 Water supply	0.15~0.3 Mpa (使用专配纯水机, 电导率<15us/cm) Using a dedicated water purifier, electrical conductivity
给水温度 Water supply temperature	20 °C
安全阀设置 Safety valve settings	开启压力≤0.70 MPa Opening pressure 回座压力≥0.60 MPa Blowdown pressure
容 积 Volume	48 L
水容积 Water volume	23 L
重 量 Weight	450 Kg
使用燃料 Heating method	电加热 Electric heating
控制方式 Control mode	全自动 Fully automatic
外形尺寸 Overall dimensions	1300×830×1900(mm) (长×宽×高) L×W×H

Steam Quality Detector

蒸汽品质检测仪



Product Introduction 产品简介

全自动蒸汽品质检测仪SQUA-A-4F由新华医疗自主研发,依据EN285、HTM2010与GB8599等法规要求设计,可实现蒸汽过热度、干度及不凝性气体含量三项蒸汽品质指标的连续、在线监测。纯风冷设计,锂电池供电,无需外接水源和电源。操作简单,使用便捷。

The fully automatic Steam Quality Detector model SQUA-A-4F is independently developed by Shinva. It is designed in compliance with standards such as EN 285, HTM 2010, and GB 8599, enabling continuous, online monitoring of three key steam quality parameters: steam superheat, dryness fraction, and non-condensable gas content. Featuring a pure air-cooled design and powered by a lithium battery, it requires no external water or power supply, making it simple and convenient to operate.

Product Advantages 产品优势

- 启动预热<15min;
Startup and preheating time of < 15 minutes;
- 检测周期<5min;
Testing cycle of < 5 minutes;
- 检测范围干度0.80-1, 过热度0-50°C, 不凝性气体<20%;
Measurement ranges: Dryness fraction 0.80-1, Superheat 0-50°C, Non-condensable gases < 20%;
- 续航时间6H+;
Battery life of 6 hours or more;
- 安装简便, 仅需连接进气软管;
Simple installation, requiring only the connection of an inlet hose;
- 全自动设计, 一键启动, 在线连续监测;
Fully automatic design with one-touch start for continuous online monitoring;
- 纯风冷设计, 无需外接冷却水, 使用方便;
Pure air-cooled design, eliminating the need for external cooling water and enhancing ease of use.;
- 锂电池供电, 无需外接电源, 安全、便携;
Lithium battery powered, requiring no external power source, ensuring safety and portability;
- 支持权限管理、审计追踪, 数据打印、存储、导出等功能。
Supports functions such as user authority management, audit trail, and data printing, storage, and export.



SAS
series

Ampoule Steam Sterilizer

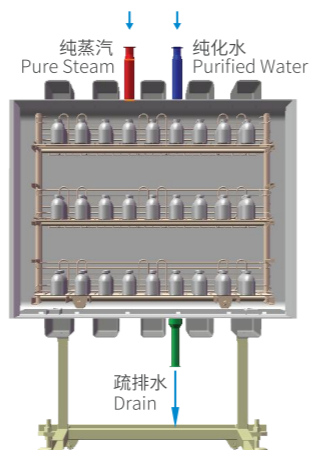
SAS系列 安瓿蒸汽灭菌器



Product Introduction 产品简介

SAS安瓿蒸汽灭菌器采用高温高压的纯蒸汽作为灭菌介质，可实现101°C~130°C温度区间的均匀灭菌，广泛用于安瓿、口服液及小容量静脉输液等药品制剂的灭菌、检漏和清洗处理。

SAS ampoule steam sterilizer adopts hot and pressurized pure steam as the sterilizing medium to achieve the uniform sterilization between 101~130°C. It is widely used for sterilization, leak detection and washing of ampoules, oral liquid and small volume IV products.



安瓿蒸汽灭菌器

Product Advantages 产品优势

- 标准化的管路系统，结构紧凑，便于维护；
Standardized pipeline system, compact structure, easy maintenance;
- 多重检漏方式，检漏更彻底；全新的清洗方式，清洗更高效节能；
Multiple leak detection methods make leak detection more thorough; brand new washing methods make washing more efficient and energy-saving;
- 机器人自动焊接、磨光工艺，质量更可靠；
Automatic robot welding, automatic polishing, reliable quality;
- 格栅分层式装载内车，温度均匀性更高；
Sterilization trolley with layered rack makes temperature distribution more uniform;
- 专用控制系统，控温更精确。
Dedicated control system for more accurate temperature control.



Product Use 产品用途

- 玻璃安瓿注射剂
Glass Ampoule Injection
- 西林瓶注射剂
Vial Injection
- 玻璃瓶注射剂
Glass Bottle Injection



WAS
series

Ampoule Water Sterilizer

WAS系列 安瓿水浴灭菌器



Product Introduction 产品简介

WAS系列安瓿水浴灭菌器采用高温水淋浴方式对药品进行加热和灭菌，可实现较低温度下(100°C以下)的均匀灭菌，主要用于安瓿、口服液、小装量玻璃瓶等药品制剂的灭菌、检漏和清洗处理。

Super-heated water is used as the sterilizing medium to heat up the product by showering. Uniform sterilization at lower temperature (below 100°C) can be realized. It is mainly used for sterilization, leak detection and washing of ampoules, oral liquid and small volume injection.

Product Use 产品用途

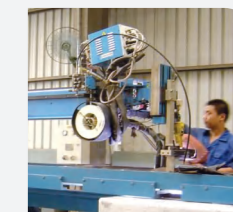
玻璃安瓿注射剂 / 塑料安瓿注射剂 / 口服液 / 西林瓶液体注射剂 / 大容量注射剂

Glass Ampoule Injection / Plastic Ampoule Injection / Oral Liquid / Vial Injection / Large Volume IV Injection



Product Advantages 产品优势

- 优化设计的喷淋系统，喷淋更均匀；
The optimized design of spray system makes spray more uniform;
- 多重检漏方式，检漏更彻底；全新的清洗方式，清洗更高效节能；
Multiple leak detection methods make leak detection more thorough; brand new washing methods make washing more efficient and energy-saving;
- 机器人自动焊接、磨光工艺，质量更可靠；
Automatic robot welding, automatic polishing, reliable quality;
- 格栅分层式装载内车，温度均匀性更高；
Sterilization trolley with layered rack makes temperature distribution more uniform;
- 专用控制系统，控温更精确。
Dedicated control system for more accurate temperature control.

WRA
series

Ampoule Water Sterilizer

WRA系列 旋转式安瓿水浴灭菌器

Product Introduction 产品简介

WRA系列旋转式安瓿水浴灭菌器主要用于安瓿瓶、口服液瓶及小容量静脉输液瓶包装的悬浊液、乳浊液及其它容易沉淀的或具有热敏化学特性的药液等药品的灭菌和检漏处理。药液在灭菌全程中处于旋转状态，不但能够使药品更均匀的接触循环水而具备优秀的温度均匀性，而且能够防止药品在灭菌过程中发生沉淀或者凝固等。

WRA Series Ampoule rotating type super-heated water sterilizer is mainly used for the sterilization and leak detection of ampoules, oral liquid bottles and small volume IV bottle of suspension, emulsion and other drugs that are prone to precipitation or heat sensitive chemical properties. In the process of sterilization, the liquid medicine is in a rotating state, not only make the liquid medicine more evenly contact with the circulating water, but also prevent the deposition or solidification of the liquid in the process of sterilization.

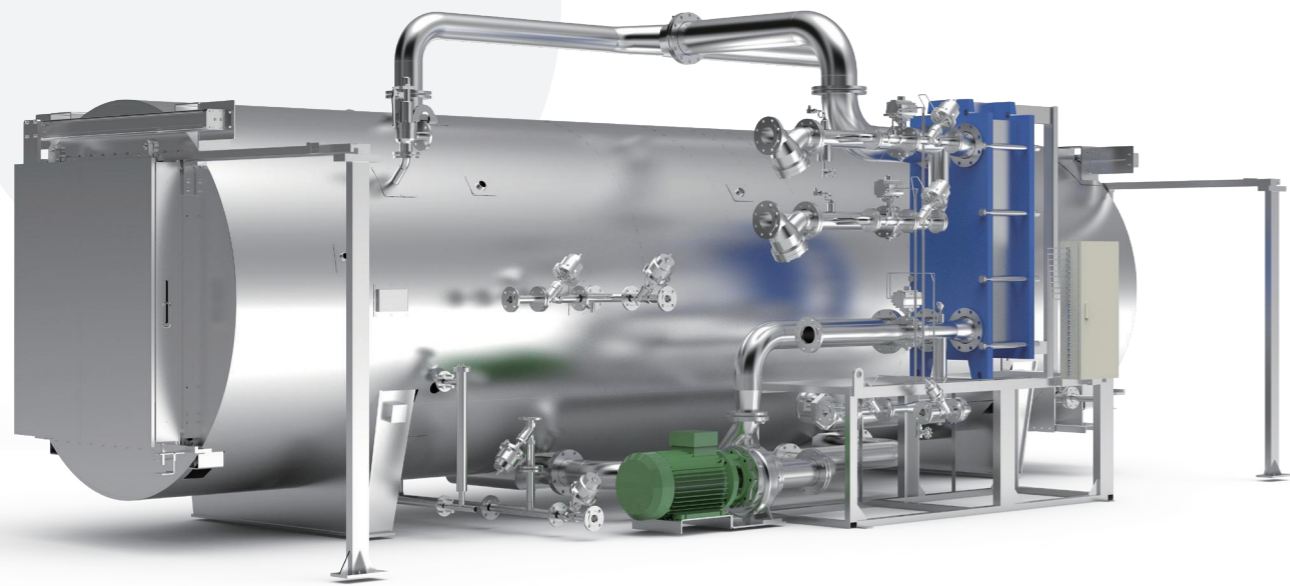
- 西林瓶乳浊液制剂 Emulsion Packed in Vial
- 玻璃安瓿瓶乳浊液制剂 Emulsion Packed in Ampoule



PSM
series

Super-Heated Water Sterilizer

PSM系列 水浴灭菌器



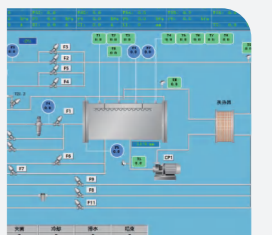
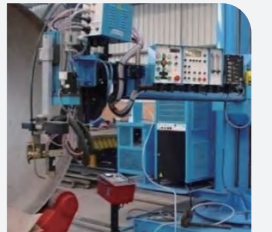
Product Introduction 产品简介

采用过热水作为灭菌介质，直接喷淋产品，灭菌过程计算机自动程序控制。灭菌介质在灭菌器腔室、循环泵、换热器、喷淋水装置内形成循环，与灭菌物品进行热交换，实现升温、灭菌、冷却等灭菌工艺过程。工业用饱和蒸汽及冷却水均通过腔室外的热交换器加热或冷却，不与产品接触。在整个灭菌过程中通过进入腔体的可控制压力的空气提供平衡压力，从而实现对灭菌物品的有效保护。

Superheated water, as sterilization medium, spray on products directly. The sterilization process is controlled by automatic program. Sterilization medium forms circulation in the sterilizer chamber, circulation pump, heat exchanger and spray water device, and exchanges heat with products to be sterilized for heating, sterilization and cooling. Industrial saturated steam and cooling water are heated or cooled by the heat exchanger outside the chamber without contacting with products. In the whole sterilization process, balanced pressure is realized by controlling chamber compressed air supply in order to effectively protect products.

Product Advantages 产品优势

- 机器人自动焊接、磨光工艺，质量更可靠；
Automatic robot welding, automatic polishing, reliable quality;
- 独创的节能系统，可节约能源20%以上；
The unique energy-saving system can save more than 20% of energy;
- 独有在线CIP清洗功能，有效防止腔体腐蚀；
Unique online CIP cleaning function can effectively prevent chamber corrosion;
- 自动进出料，节省人力、节约时间；
Automatic loading and unloading, saving manpower and time;
- 可靠的安全保护系统，如门密封压力安全保护、门关位系统保护等；
Reliable safety protection system, such as door sealing pressure safety protection, door closing system protection, etc;
- 智能化控制系统，符合FDA审计追踪要求；可远程诊断、即时服务。
Intelligent control system that meet FDA audit trail requirements; remote diagnosis, real-time service.





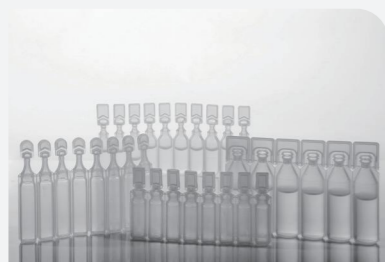
玻璃瓶大输液
Glass Bottle IV Solution



塑料瓶大输液
Plastic Bottle IV Solution



非PVC膜软袋大输液
Non-PVC Bag IV Solution



塑料安瓿注射剂
Plastic Ampoule Injection

玻瓶大输液水浴灭菌器

Super-heated Water Sterilizer for Glass Bottle IV Solution



塑瓶大输液水浴灭菌器

Super-heated Water Sterilizer for Plastic Bottle IV Solution



软袋大输液水浴灭菌器

Super-heated Water Sterilizer for Soft Bag IV Solution



小容量制剂水浴灭菌器

Super-heated Water Sterilizer for Small Volume IV Solution



- 特殊的顶部喷淋流量设计，保证喷淋均匀；
- 匹配专用玻瓶灭菌车，可实现自动上下瓶。
- Special top spray flow design ensures uniform spray;
- Special glass bottle sterilization trolley, automatic bottle loading and unloading.

- 特殊的顶部喷淋流量设计，保证喷淋均匀；
- 匹配专用塑瓶灭菌车，可实现自动上下瓶。
- Special top spray flow design ensures uniform spray;
- Special plastic bottle sterilization trolley, automatic bottle loading and unloading.

- 适用于单室袋/多室袋/腹膜透析液/清洗液等；
- 三面喷淋，流量可调节，温度均匀性好；
- 根据客户袋型，针对性设计灭菌车。
- It is suitable for single-chamber bag / multi-chamber bag / peritoneal dialysis / cleaning liquid, etc;
- Three-side spray, adjustable flow rate, good temperature uniformity;
- Customized sterilizer trolley.

- 特殊的顶部喷淋流量设计，保证喷淋均匀；
- 配备专用的口服液（安瓿）灭菌车，可实现自动上下瓶。
- Special top spray flow design ensures uniform spray;
- Special oral liquid (ampoule) sterilization trolley, automatic bottle loading and unloading.

Energy Saving System

水浴灭菌器节能系统

- 减少蒸汽耗量和冷却水耗量，节约能耗；
- 减少升、降温时间，提高工作效率；
- 热水回收温度可根据瓶形实际控制情况设置；
- 配备正常灭菌与节能灭菌两套程序，全过程自动控制。
- Reduce steam and cooling water consumption and save energy;
- Reduce heating and cooling time, high efficiency;
- Hot water recycle temperature is set according to the bottle shape actual status;
- With normal sterilization cycle and energy saving cycle, whole process automatic control.



节能系统
Energy Saving System

蒸汽消耗量 2.04t
Steam Consumption 2.04t

冷却水消耗量 40.5t
Cooling Water Consumption 40.5t

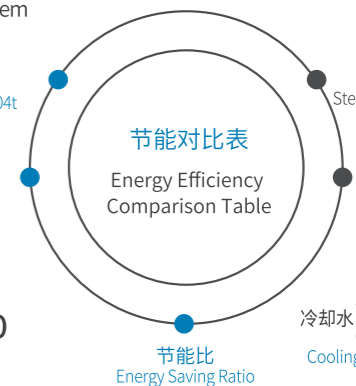
蒸汽 22%
Steam 22%

普通设备
Normal Machine

蒸汽消耗量 2.63t
Steam Consumption 2.63t

冷却水消耗量 56t
Cooling Water Consumption 56t

冷却水 27%
Cooling water 27%



仅蒸汽一项，按照每天生产5批次，全年生产300天，可节约成本17.7万元。

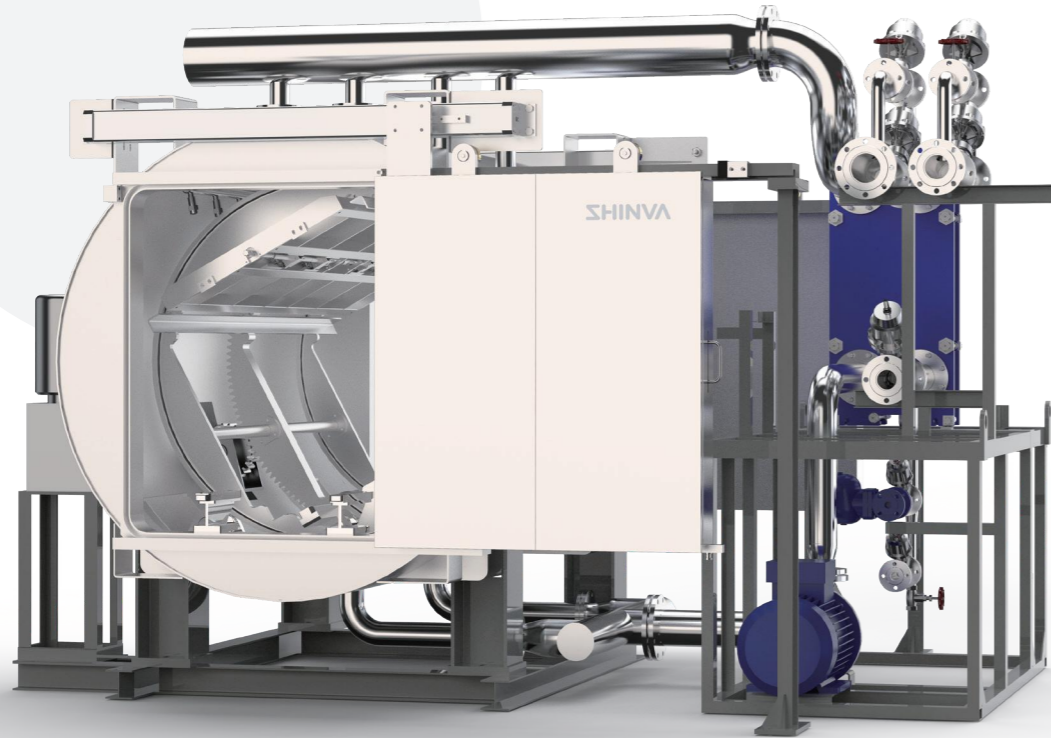
As far as steam is concerned, based on the production of 5 batches per day and 300 days a year, the cost can be saved by 177,000 Yuan.

Based on PSMVP-SC-8T plastic bottle super-heated water sterilizer cycle time (sterilization temperature 121°C)
*PSMVP-SC-8T 塑瓶水浴灭菌器的一个灭菌周期（121°C灭菌）为例。

MPSM
/ XPSM
series

Dynamic Water Sterilizer

MPSM/XPSM系列 动态水浴灭菌器



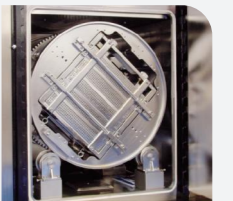
Product Introduction 产品简介

利用循环过热水作为灭菌介质，能保证输液瓶在升温过程中实现均匀快速升降温，可实现较低温度下的均匀灭菌，消除了蒸汽灭菌时因冷空气存在而造成的温度死角，并可避免在灭菌后的冷却过程中由于冷却水不洁净而造成的大输液再污染现象。药液在灭菌全程中处于运动状态，不但能够使药品更均匀的接触循环水而具备优秀的温度均匀性，而且能够防止药品在灭菌过程中发生沉淀或者凝固等。灭菌过程中采用独特的压力平衡技术，确保灭菌物品得到有效保护。

This series dynamic super-heated water sterilizer are mainly used for sterilization of suspension, emulsion and other easily precipitated or thermosensitive chemical drugs and oral liquid packaged in IV bottles. High-temperature circulating water is used as sterilization media and uniform sterilization can be realized at a low temperature (not more than 100°C). There is no problem of temperature dead leg caused by cold air in the steam sterilization and no product recontamination due to the unclean cooling water in the cooling step. The unique pressure balance technology is used in the sterilization process, and there is not explosion of bottles.

Product Advantages 产品优势

- 旋转/摆动架采用对称设计原理，消除了离心力，使其转动平稳；
The rotating/rocking frame adopts the symmetrical design principle to eliminate centrifugal force and make rotation stable;
- 支撑滚轮组件采用特殊轴承设计，耐磨且使用寿命长；
The supporting roller assembly adopts special bearing design, which is wear-resistant and has long service life;
- 灭菌车采用特殊孔板结构，喷淋均匀，且保证了每个瓶子的压紧，碎瓶率低；
The sterilization trolley adopts a special perforated plate structure, and the spraying is uniform. The the compaction of each bottle is ensured, so that the bottle breaking rate is low;
- 采用磁感应定位装置，灭菌结束后转动/摆动装置能稳定在出车位置停机。
The magnetic induction positioning device is adopted, and the rotating/rocking device can stably stop at the trolley unloading position after sterilization.



Product Use 产品用途

- 玻璃瓶乳浊液大输液
Emulsion Packed in Large IV Glass Bottle
- 软袋乳浊液大输液
Emulsion Packed in Flexible Bag
- 塑料瓶乳浊液大输液
Mulsion Packed in Plastic Bottle



RFM series

Air Steam Mixture Sterilizer
RFM系列 通风干燥式灭菌器



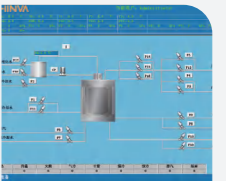
Product Introduction 产品简介

通过强制对流风扇和导流装置在腔体内形成灭菌介质的定向循环并能完全穿过装载的灭菌产品。通过直接进入腔体的蒸汽进行加热和灭菌。冷却通过内部高性能的热交换盘管进行。在整个灭菌过程中通过进入腔体的可控制压力的洁净空气提供平衡压力，从而实现对灭菌物品的保护措施。
工艺过程：预热→进汽升温→灭菌→气冷→干燥→冷却→排压

The system consists of forced convection fan and air deflector. Under the strong driving of the fan and the guidance of the air deflector, the high temperature mixed sterilization medium (pure steam and clean air) in the sterilization chamber forms vortex airflow which flows evenly through the products for heating and sterilization. The temperature distribution during sterilization is within the allowable standard range. A certain amount of clean compressed air is introduced into the chamber to keep product pressure balance and prevent product damage cause by high pressure inside
Technical process:
Preheating → Heating → Sterilizing → Air cooling → Drying → Cooling → Pressure relief

Product Advantages 产品优势

- 独特的风道循环系统设计，冷却干燥效率高；
Unique circulation system design, high cooling and drying efficiency;
- 独家专利的控温策略，控温更精准；
Exclusive patented temperature control strategy, more accurate temperature control;
- 原创发明专利，近20年的技术经验积累，拥有最丰富的工艺数据库；
Original invention patents, nearly 20 years of technical experience accumulation, the richest technological database;
- 机器人自动焊接、磨光工艺，质量更可靠；
Automatic robot welding, automatic polishing, reliable quality;
- 独创的机械密封水冷控制系统，可靠节能；
The original mechanical seal water cooling control system is reliable and energy saving;
- 专用的灭菌车、灭菌盒设计，通风好，为灭菌和干燥效果提供有效保证。
The special sterilization trolley and box are designed with good ventilation to provide effective guarantee for sterilization and drying effect.



Product Use 产品用途

- 预充针注射器
Prefilled Syringe
- 粉液双室袋
Powder-Liquid Double-Chamber Bag
- 血袋产品
Blood Bags
- 面膜
Facial mask
- 泡罩
Blister
- 条包装
Multi-lane



DHS series

Dry Heat Sterilizer
DHS系列 干热灭菌器



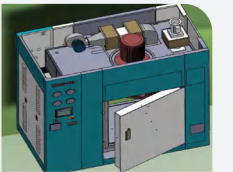
Product Introduction 产品简介

在循环风机、加热管、排湿风机作用下，干燥箱迅速升温，同时洁净干燥空气通过高温高效过滤器进入箱体，吸收物料表面的水分，进入循环通道蒸发排出，干燥空气在风机作用下定向循环流动。随着水蒸气逐渐减少，同时间隙性补充新鲜过滤空气，箱体内成微正压状态，灭菌室温度达到设定值，在设定温度下保温循环，实现对灭菌物品的灭菌。

With the help of circulation fan, the dry heat air flows into chamber by way of high temperature resistant HEPA and forms uniform air flow. The dry air flows in a directional circulation, removes moisture on the surface of the articles, and then comes out of chamber. With the gradual decrease of water vapor and intermittent fresh entering, the chamber presents positive pressure state. After sterilizing stage is ended, fresh air (or cooling water) entering valve is open for cooling. When temperature drops to the set value, automatic valves close, and sound and light alarm is generated for indicating to open door.

Product Advantages 产品优势

- 门密封胶条采用耐高温硅橡胶双牙结构,保证密封效果,更换方便;
High temperature resistant silicone rubber door gasket, good sealing effect and easy replacement;
- 设备采用三维软件设计、装配;
设计温度300°C,前后门均可以做生物密封;
Three-dimensional software is adopted for design and assembly;The design temperature is 300°C, and both the front and back door can be bio-sealed;
- 风机变频控制; 维持柜内微正压;
保证内室风速达到标准;
Frequency converter is used to control fan;
Maintain a slight positive pressure in the chamber;
Ensure the wind speed in the chamber reaches the standard;
- 独特的通风板和底部风道设计, 温度分布更加均匀。
Unique ventilation plate and bottom air duct design make the temperature distribution more uniform.



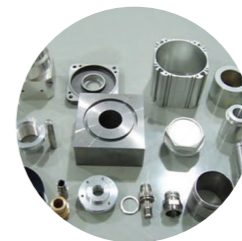
Product Use 产品用途



玻璃瓶 (空瓶)
Glass Bottles(empty)



原料药桶
API Barrels



设备零件
Equipment Parts



西林瓶 (空瓶)
Vials (empty)



金属容器
Metal Containers

YQG-V
series

Pharmaceutical Grade Washer

YQG-V系列 制药用器具清洗干燥机



内室镜面处理，圆弧过渡，
无死角，易清洁。

Chamber mirror finish,
round corner transition, no
dead leg, easy cleaning.

Product Introduction 产品简介

YQG-V系列制药器具清洗机是我公司根据国内外用户对清洗的最新要求研发生产的清洗设备，能够完成对物品的预洗、清洗、漂洗和干燥，实现了可重现的“能被记录和验证”的清洗，完全符合新版GMP美国FDA和欧盟cGMP规范的要求。该清洗机具有容积大、清洗彻底、自动化程度高的特点，各项技术指标均能达到国际先进水平。同时设备可以配置整套符合FDA要求的文件体系，是国内制药厂家的首选设备。

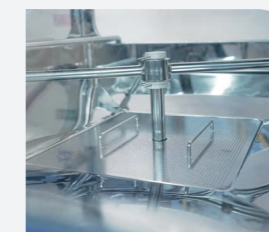
YQG-V series pharmaceutical grade washer is designed according to GMP requirements. It can process the material pre-washing, washing, rinse and drying and achieve reproducible "Can be recorded and verified" washing cycle to full meet China GMP, EU cGMP and USA FDA requirements. This washing machine is with the advantage of large volume, washing thoroughness, high automatic level. Each standard is high and same as the worldwide market. Also the machine can provide whole FDA approved documents that is the best choose for the pharmaceutical company.

Product Advantages 产品优势



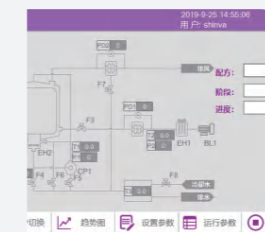
升降门结构设计，设备紧凑，节省外部空间。

Vertical sliding door,
compact design.



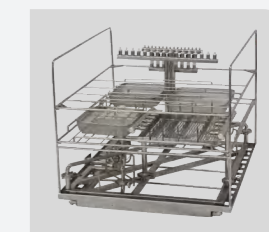
配置高效喷淋系统和管路设计，节省能源，提高效率。

Door interlock function enables strict isolation of loading /unloading area and prevents cross contamination.



自动程序控制，实现“可记录、可验证、可追溯”的清洗过程。

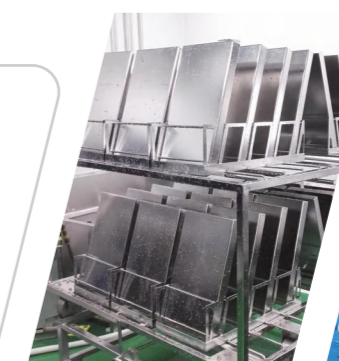
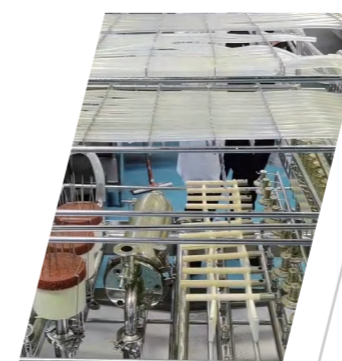
Automatic program control enables "recordable, verifiable and traceable" washing process.



建立清洗物品数据库，规范工位设计，为客户提供定制化和标准化清洗架。

Establish a database of items to be washed, standardize the design of work stations, and provide customized and standardized washing racks for users.

Product Use 产品用途



- **灌装器具：**灌装泵、灌装针、硅胶管、分液器、料斗、震荡锅、过滤器滤壳等
- **生产器具：**不锈钢桶、PP桶、勺子、搅拌棒、镊子、剪刀、蛋车、冻干盘、移动罐等
- **试验器皿：**烧杯、蓝盖瓶、量筒、三角瓶、试管、容量瓶等
- **Filling equipment:** Filling pump, filling needle, silicone tube, liquid separator, hopper, shaker, filter housing, etc.
- **Production equipment:** Stainless steel bucket, PP bucket, spoon, mixing rod, tweezers, scissors, egg cart, freeze-dried tray, mobile tank, etc.
- **Laboratory glassware:** beaker, blue cap bottle, measuring cylinder, triangular flask, test tube, volumetric flask, etc.

LAB
seriesLaboratory Cleaning Machine
LAB系列 实验室清洗机

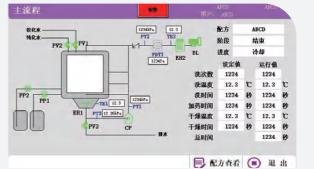
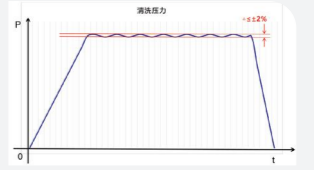
Product Introduction 产品简介

新华医疗实验室清洗机是面向药企QC、研发实验室等部门，采用高流量稳压清洗、模块化装载和智能化管理等技术融为一体打造的实验室器皿自动化清洗烘干产品。该产品具备全流程智能高效清洗、物品灵活装载和高空间利用率等独特功能，解决了实验室部件传统清洗面临的清洗过程无监控无追溯、清洗质量均一性差、能源消耗大的问题。

The Shinva Medical Laboratory Cleaning Machine is an automated cleaning and drying solution designed for laboratory glassware, specifically catering to quality control (QC) and R&D laboratories within pharmaceutical enterprises. It integrates technologies such as high-flow stabilized pressure washing, modular loading, and intelligent management. This product features smart, high-efficiency cleaning throughout the entire process, flexible item loading, and high space utilization. It effectively addresses common issues associated with traditional cleaning methods for labware, such as the lack of process monitoring and traceability, inconsistent cleaning quality, and high energy consumption.

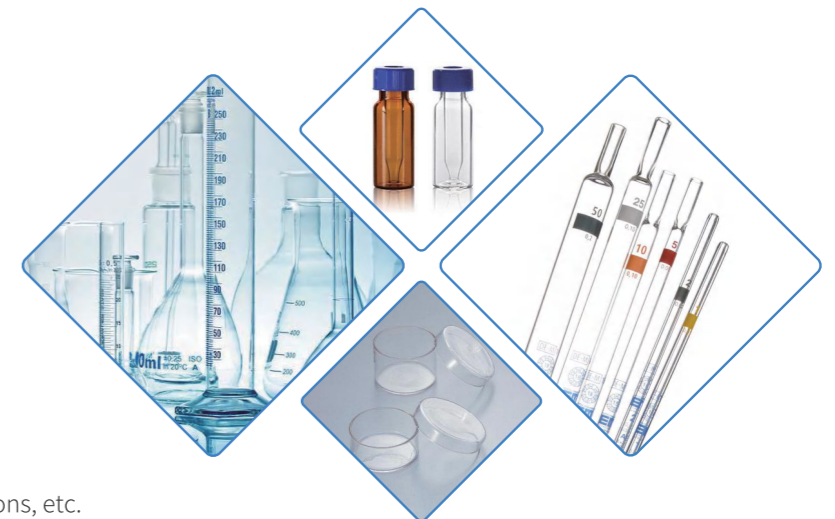
Product Advantages 产品优势

- 变频调压稳压循环系统，保持清洗压力稳定可控；**
 The variable-frequency, pressure-regulating, and stabilizing circulation system maintains stable and controllable cleaning pressure;
- 模块化装载，灵活清洗不同种类及规格的物品，更加适合实验室多样性器皿的清洁处理；**
 Modular loading enables flexible cleaning of items of various types and specifications, making it particularly suitable for handling the diverse glassware found in laboratories;
- 全智能操控，动态显示运行参数，实现“可记录、可追溯”的清洗；**
 Fully intelligent control with dynamic display of operating parameters achieves "recordable and traceable" cleaning;
- 多层高效装载模式，满足不同高度以及不同装载层数的自控式清洗，未放置清洗架的进水口自行锁闭，减少水量消耗。**
 A multi-layer high-efficiency loading mode meets requirements for different heights and loading layers. Water inlets without cleaning racks will self-lock, reducing water consumption.



Product Use 产品用途

- 玻璃器皿 Glassware**
 烧杯、锥形瓶、量筒、容量瓶、培养皿、试管、色谱瓶等。
 Beakers, conical flasks, measuring cylinders, volumetric flasks, petri dishes, test tubes, chromatography vials, etc.
- 塑料器皿 Plasticware**
 试剂瓶、塑料量杯、注射器等。
 Reagent bottles, plastic measuring cups, syringes, etc.
- 金属制品 Metal Items**
 剪刀、镊子、取样勺等。
 Scissors, tweezers, sampling spoons, etc.



PWS
series

Hopper Washing Station

PWS系列 料斗清洗站



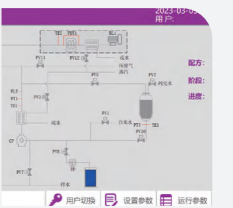
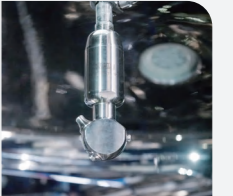
Product Introduction 产品简介

PWS系列料斗清洗站采用高压高效清洗设计和大风量快速烘干设计，完全适用于固体制剂生产车间重复使用的各规格料斗的清洁处理。根据药品生产线的不同，可提供单舱清洗站、双舱清洗站、简易式清洗站和移动式清洗机等多规格产品，符合固体制剂车间各类需求。

The PWS series hopper washing station adopts a high pressure and efficient cleaning design and a large air volume and rapid drying design, which is fully applicable to the cleaning treatment of various specifications of hoppers repeatedly used in solid preparation production workshops. According to the different pharmaceutical production lines, we can provide multiple specifications of products such as single compartment cleaning stations, dual compartment cleaning stations, simple cleaning stations, and mobile cleaning machines, which meet various requirements of solid preparation workshops.

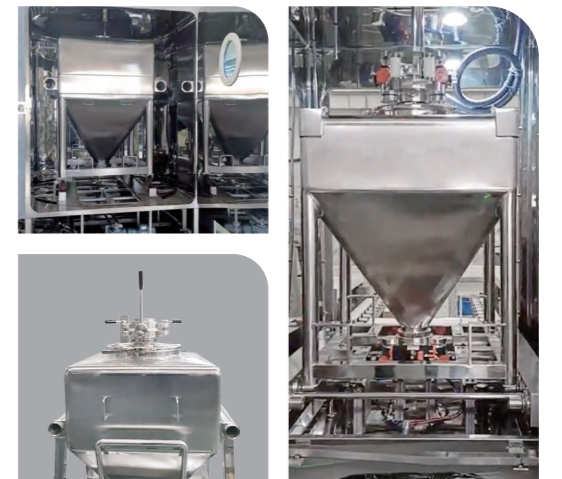
Product Advantages 产品优势

- 配置升降式旋转喷淋系统，喷淋球精准定位，实现不同规格料斗的清洗；
Equipped with a lifting rotary spray system, the spray ball is accurately positioned to achieve cleaning of different specifications of hoppers;
- 配置卧式或立式大风量干燥进风单元，提高干燥速率，缩短流程时间；
The horizontal or vertical large air volume drying air inlet unit is provided to improve the drying rate and shorten the flow time;
- 采用高压清洗模式，有效节省能源，提高生产效率；
High-pressure washing mode can effectively save energy and improve production efficiency;
- 标准化泵站和高效喷淋系统设计，实现无死角清洗；
Standardized pump station and efficient spray system design. The washing has no dead leg;
- 自动程序控制，实现“可记录、可验证、可追溯”的清洗过程。
Automatic program control enables "recordable, verifiable and traceable" washing process.



Product Use 产品用途

- 普通药品生产线：适用于常规药品生产中各种类型周转料斗和混合料斗清洗，料斗主要清洗方式为旋转式；
- 密闭型生产线：用于密闭生产线料斗的隔离式清洗烘干处理，料斗进出料口有αβ阀或球阀密封，可实现阀门自动对接。
- General drug production line: Suitable for cleaning various types of turnover hoppers and mixing hoppers in conventional drug production. The main cleaning method of the hopper is rotary type;
- Closed production line: Used for the isolated cleaning and drying treatment of the hopper of the closed production line. The hopper inlet and outlet have αβ Valve or ball valve sealing can achieve automatic valve docking.



IWM series

Sanitary Isolation High Speed Washer
卫生隔离式洗脱烘一体机



Product Introduction 产品简介

双面装卸载，设有前污门和后净门，做到净、污操作完全隔离，满足卫生洗涤要求。超柔打孔技术，与织物接触的表面均进行特殊亚光处理，满足对织物的精细洗涤和防护要求。

Double sided loading and unloading, equipped with front and rear cleaning doors, achieving complete isolation between cleaning and cleaning operations, meeting hygiene and washing requirements. Super soft punching technology, with special matte treatment on the surface in contact with the fabric, meets the requirements for fine washing and protection of the fabric.

Product Advantages 产品优势



PLC电脑控制器，功能强大。可数据采集，远程操控。(PLC为选装配置)

PLC computer controller with powerful functions. Capable of data collection and remote control. (PLC is an optional configuration)



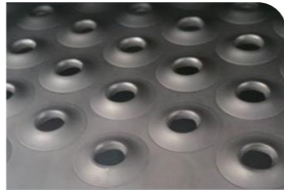
采用德国进口空气弹簧及减震组件，确保设备运行更加平稳，噪音极低。

Air springs and shock absorption components imported from Germany are used to ensure more stable operation of the equipment and extremely low noise.



德国进口气弹簧与阻尼器结合避震系统，噪音低，震动小，高脱运行稳定。

The combination of Gas Spring and damper, imported from Germany, has low noise, small vibration and stable high lift operation.



双面成型的超柔窝孔打孔技术，且内筒经过特殊亚光工艺处理，更好的保证织物的洗涤安全。

The double-sided forming of super soft hole punching technology, and the inner cylinder is treated with special matte technology, better ensuring the washing safety of the fabric.

DWM series

Double Suspension Washing and Drying Machine
双层悬浮式洗脱烘一体机

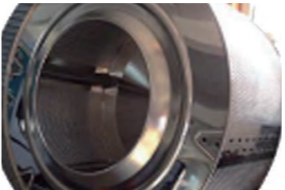


Product Introduction 产品简介

一种上下双舱的洗涤、烘干设备，其中上方为烘干舱、下方为清洗舱。双层结构设计，集洗涤、脱干、烘干于一体，节省占地面积。整机模块化水平国内领先，有效减小内外转笼间隙，制造工艺精美。

A washing and drying equipment with upper and lower double compartments, wherein the upper part is the drying compartment and the lower part is the cleaning compartment. The double-layer structure design integrates washing, dehydration, and drying, saving floor space. The overall molding level is leading domestically, effectively reducing the gap between the inner and outer rotating cages, and the manufacturing process is exquisite.

Product Advantages 产品优势



采用国际先进的无痕旋压工艺，内转笼同心度极高，高脱运行更加平稳可靠，使轴承油封寿命更长！国内首创，强度倍增。

Adopting internationally advanced seamless spinning technology, the inner rotating cage has extremely high concentricity, making it more stable and reliable for high detachment operation, and prolonging the service life of the bearing oil seal! First in China, with doubled strength.



采用世界顶尖的美国原装进口 Depend-o-Drain排水阀，排水控制准确、突发停机后自动排水取衣、方便省力，性能更加稳定可靠。

Adopting the world's top imported Depend o Train drain valve from the United States, the drainage control is accurate, automatic drainage and clothing retrieval after sudden shutdown, convenient and labor-saving, and the performance is more stable and reliable.



采用高性能航天钛镁合金材料，永不生锈，高强度，高精度，运行更加平稳可靠！

Adopting high-performance aerospace titanium magnesium alloy material, never rusting, high strength, high precision, and more stable and reliable operation!



采用316L优质高防腐不锈钢材质的超节能高效加热器，相比较铜质加热器耐腐蚀性更强，使用寿命可延长3倍以上！

Made of 316L high-quality and corrosion-resistant stainless steel material High quality ultra energy-saving and efficient heaters, compared to copper heaters, they have stronger corrosion resistance, The service life can be extended by more than three times!

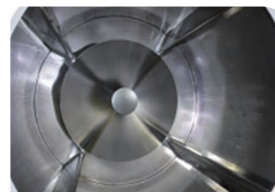
SHD
seriesFully Automatic High Efficiency Dryer
全自动高效节能烘干机

Product Introduction 产品简介

一种采用上进风下排风结构的滚筒式烘干设备。符合国际容积载荷比的滚筒容量，容积大，装载量多，烘干速度快。

A rolling drying equipment with an upper inlet and lower exhaust structure. Rolling capacity that meets the international volumetric load ratio, with large capacity, large loading capacity, and fast drying speed.

Product Advantages 产品优势



优质不锈钢，加工工艺精致美观，耐腐蚀性强，经久耐用！精心设计的网孔直径4mm，有效避免衣物饰品及拉链头的损伤，更彰显了产品设计的专业性和实用性！

High quality stainless steel with exquisite processing technology Beautiful appearance, strong corrosion resistance, and Durable! Carefully designed mesh 4mm diameter, effectively avoiding clothing Damage to accessories and zipper heads, and more Showcasing the professionalism of product design And practicality!



采用高端超轻航天合金材质风轮，模具压铸成型，重量轻寿命长，永不变形，运转负载小，风量噪音小！

Adopting high-end ultra light aerospace alloy material wind wheels, die-casting with molds, lightweight, long service life, never deformation, low operating load, high air volume, and low noise!



单电机直驱方式，无需皮带，使用可靠，维护成本低，使用寿命长；无需更换皮带及其他繁琐保养。

Single motor direct drive method, no belt required, reliable use, low maintenance cost, and long service life; No need to replace the belt and other tedious maintenance.



德国进口双进气电磁阀，性能更稳定、寿命更长、安全性更好。

The dual intake solenoid valve imported from Germany has more stable performance, longer service life, and better safety.

HWM
series

Automatic Frequency Conversion High-speed Washer Dryer

全自动全悬浮变频高速洗脱机



Product Introduction 产品简介

一种能自动独立完成加水、加热、洗涤、加剂、匀布、脱干等功能的滚筒式洗涤设备。内滚筒采用欧洲最先进的无痕旋压技术一次成型，无焊接，强度更高。采用最新减震、吸震、避震系统，外框与内体间设多个连接点，有有效地防止脱干时各方向的不平衡振动，平稳性能优良。

A rolling washing equipment that can automatically and independently complete functions such as adding water, heating, washing, adding agents, evenly distributing, and drying. The inner roller adopts the most advanced seamless spinning technology in Europe for one-time forming, without welding and with higher strength. Adopting the latest shock absorption, shock absorption, and shock-absorbing systems, multiple connection points are set between the outer frame and the inner body, effectively preventing unbalanced vibration in all directions during dehydration, with excellent stability performance.

Product Advantages 产品优势



采用国际先进的无痕旋压工艺，内转笼同心度极高，高脱运行更加平稳可靠，使轴承油封寿命更长！国内首创，强度倍增。

Adopting internationally advanced seamless spinning technology, the inner rotating cage has extremely high concentricity, making it more stable and reliable for high detachment operation, and prolonging the service life of the bearing oil seal! First in China, with doubled strength.



国内独创MFS悬挂减震系统——超低震动、无需任何基础固定！德国原装SUSPA阻尼器，独立悬挂减震——噪音低、能满足更高脱水转速需要。

Domestic original MFS suspension damping system - ultra-low vibration, no need for any foundation fixation! German original SUSPA damper with independent suspension and shock absorption - low noise, able to meet the needs of higher spin off speeds.



无储水盒——省水、省电、省原料至少25%以上。

No water storage box - save water, electricity, and raw materials by at least 25%.



钛镁合金航天材料，高强度，高精度，运营更加平稳可靠！

Titanium magnesium alloy aerospace material, high strength, high precision, and more stable and reliable operation!

Aseptic Test Isolator

无菌检查隔离器

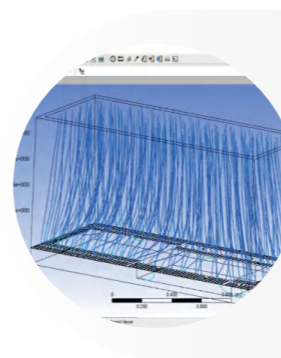


Product Introduction 产品简介

无菌检查隔离器内部操作环境为A级，能够有效降低对洁净环境的要求，设备全密闭，确保操作人员与检查样品的有效隔离，能最大程度的降低外部环境对操作过程的影响，避免出现假阴性和假阳性的风险，提供流畅、规范有效的无菌检查控制流程。

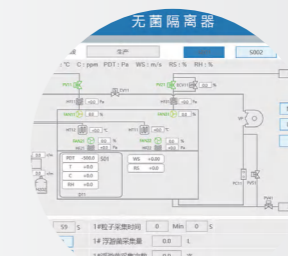
The internal operating environment of the aseptic test isolator is Grade A, which can effectively reduce the requirements for a clean environment. The equipment is fully sealed to ensure the effective isolation of operators and inspection samples, minimize the impact of the external environment on the operation process, avoid the risk of false negative and false positive, and provide a smooth, standardized and effective sterility inspection control process.

Product Advantages 产品优势



设计结构经过流体软件分析，气流流型、压差和风速控制有保证；

The design structure is analyzed by the fluid software, and the air flow pattern, pressure difference and wind speed control are guaranteed;



自动程序控制，PID界面显示，可实现电子签名、批记录、数据报表、历史曲线、审计追踪和历史报警等多重数据分析处理；

Automatic program control and PID interface display enable multiple data analysis and processing such as electronic signature, batch record, data report, historical curve, audit trail and historical alarm;



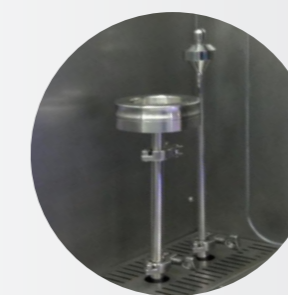
集成式汽化过氧化氢灭菌系统，可快速灭菌并达到log6的灭菌效果；

The integrated vaporized hydrogen peroxide sterilization system can quickly sterilize and achieve the sterilization effect of log6;



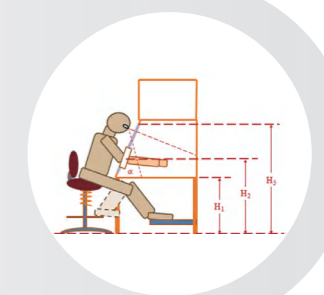
电气箱+传递舱+操作舱模块化设计，便于对接扩展组合；

The modular design of electric cabinet+transfer chamber+operation chamber is convenient for docking and expansion;



在线环境监测系统集成度高，采样管路可在线灭菌，报表独立生成；

The online environmental monitoring system is highly integrated, the sampling pipeline can be sterilized online, and the report can be generated independently;

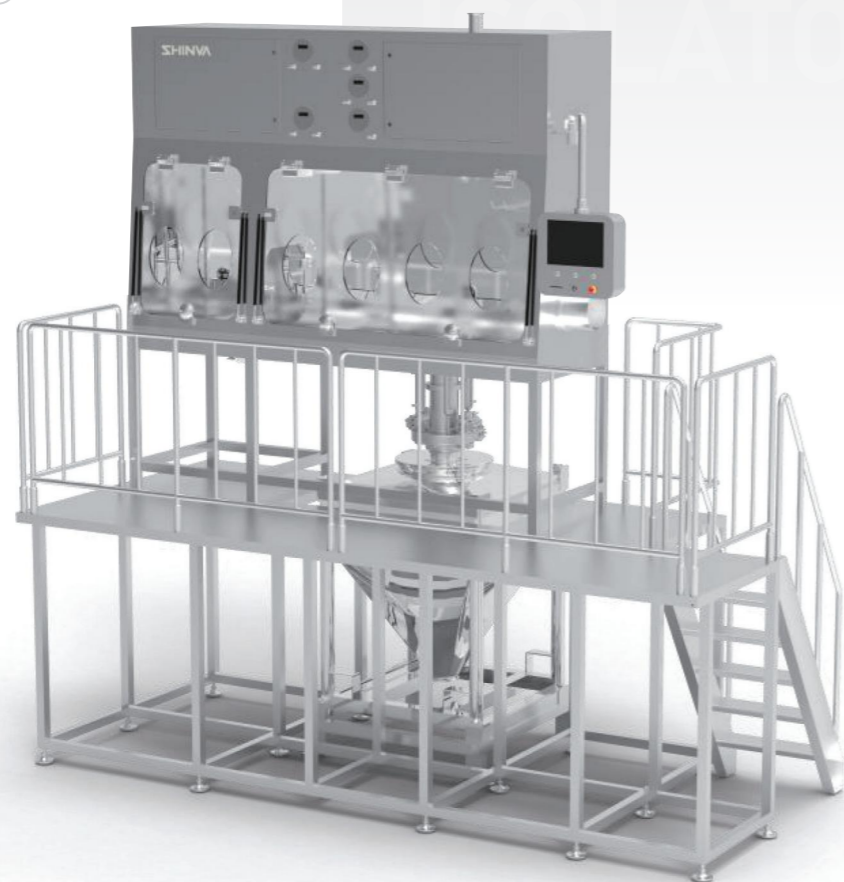


坐姿操作设计，满足人体工程学原理。

The sitting operation design meets the ergonomic principle.

Negative Pressure Protective Isolator

负压防护隔离器

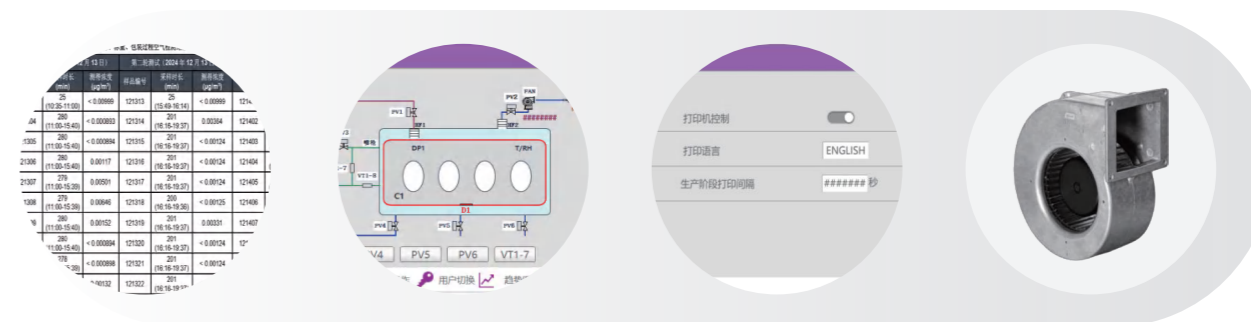


Product Introduction 产品简介

设备全密闭，运行时维持负压，主要用于处理有毒原料、高致敏性和激素类物料，目的在于保护操作人员或者环境免受其影响，可保证物料和人员的隔离，实现物料生产过程中对操作人员的有效保护。

The equipment is fully enclosed and maintains negative pressure during operation. It is mainly used to handle toxic raw materials, highly sensitized and hormonal materials. The purpose is to protect operators or the environment from their impact, ensure the isolation of materials and personnel, and achieve effective protection for operators during the production of materials.

Product Advantages 产品优势



设备在客户现场经过第三方验证，可以满足OEB5级标准；

The equipment has been verified by a third party at the customer's site and can meet the OEB5 standard;

自动程序控制，PID界面显示，实现电子签名、数据报表、历史曲线、审计追踪和历史报警等多重数据分析处理；

Automatic program control, PID interface display, multiple data analysis and processing such as electronic signature, data report, historical curve, audit tracking and historical alarm;

重复打印可以对上次运行数据进行多次打印，防止因为打印纸用尽或打印机损坏造成打印数据丢失；

Repeated printing can print the last operation data for many times to prevent the loss of printing data due to the exhaustion of printing paper or the damage of the printer;

选用直流风机，PID自动控制，压差控制稳定；

DC fan is selected with PID automatic control and stable differential pressure control;



配置PUSH-PUSH双级安全更换过滤器，满足安全更换要求；

Equipped with PUSH-PUSH two-stage safety replacement filter to meet the safety replacement requirements;

配置有水气两用喷枪，用于生产结束后设备的清洁；

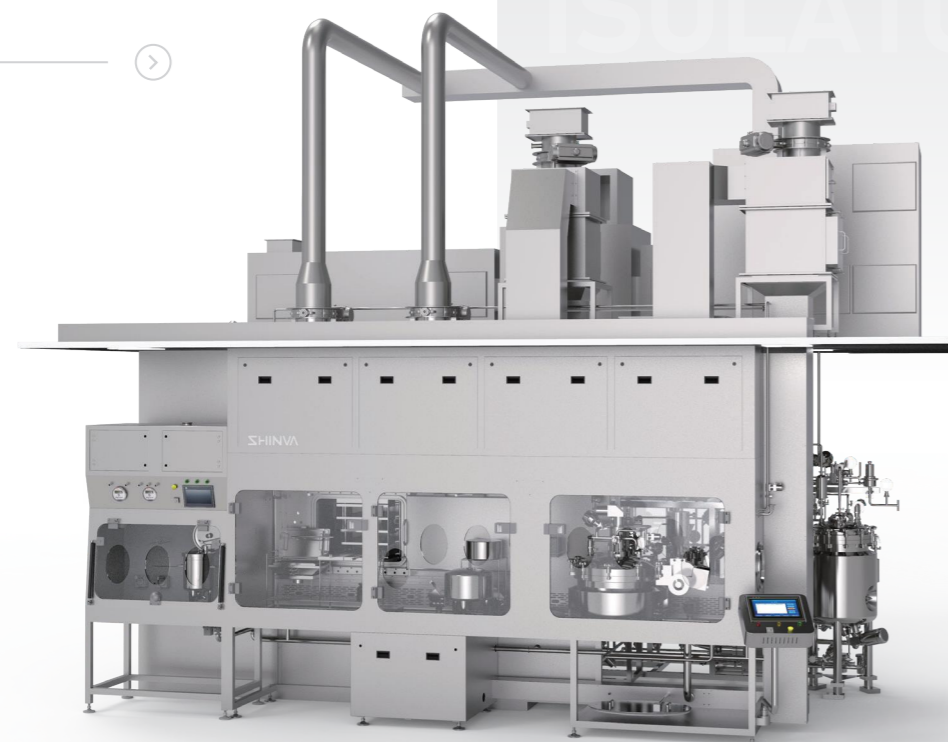
Equipped with a dual-use spray gun for cleaning equipment after production;

配置袋出装置或RTP，用于剩余物料或废弃物的处理。

Bag out device or RTP shall be configured for disposal of surplus materials or wastes.

Aseptic Production Isolator

无菌生产隔离器

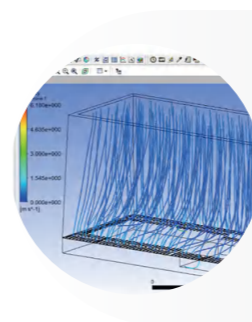


Product Introduction 产品简介

符合GMP规范要求的隔离装置，设备全密闭，确保背景环境、操作人员与药品、操作物品的有效隔离，避免交叉污染；隔离器集成汽化过氧化氢灭菌系统，内部环境为A级，为用户带来一个高度洁净、持续有效的操作空间，能最大限度降低微生物、各种微粒和热原的污染，实现生产全过程的无菌保障，特别适用于无菌（有毒）产品的研发和小试生产。

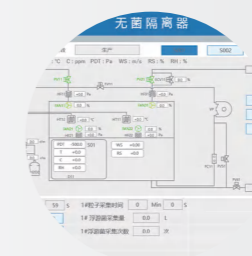
Isolation device that meets GMP requirements, with fully enclosed equipment, ensuring effective isolation of background environment, operators from drugs and operating items, and avoiding cross contamination; The isolator integrates a vaporized hydrogen peroxide sterilization system, with an internal environment of Class A, providing users with a highly clean and continuously effective operating space. It can minimize the pollution of microorganisms, various particles, and pyrogens, and achieve aseptic protection throughout the production process. It is particularly suitable for the research and development of sterile (toxic) products and small-scale trial production.

Product Advantages 产品优势



设计结构经过流体软件分析，气流流型、压差和风速控制有保证；

The design structure has been analyzed by fluid software, ensuring the control of airflow flow pattern, pressure difference, and wind speed;



上位机采用平板电脑，PID显示，界面友好，实现电子签名、批记录、数据报表、历史曲线、审计追踪和历史报警等多重数据分析处理；

The upper computer adopts a tablet computer with PID display and a user-friendly interface, achieving multiple data analysis and processing such as electronic signatures, batch records, data reports, historical curves, audit trails, and historical alarms;



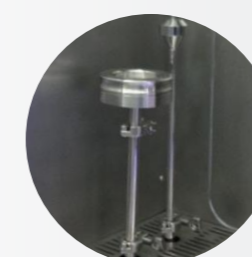
集成式汽化过氧化氢灭菌系统，可快速灭菌并达到log6的灭菌效果；

The integrated vaporized hydrogen peroxide sterilization system can quickly sterilize and achieve the sterilization effect of log6;



配置袋进袋出过滤器系统，保证人员安全更换；

Configure a bag in and bag out filter system to ensure safe replacement of personnel;



在线环境监测系统集成度高，采样管路可在线灭菌，报表独立生成；

The online environmental monitoring system has high integration, sampling pipelines can be sterilized online, and reports can be generated independently;



木模模拟，保证手套的布置满足客户工艺操作需求，人员操作舒适；

Wood mold simulation ensures that the arrangement of gloves meets the customer's process operation needs and personnel operate comfortably;



可配置RTP，可用于小型器具及物料的快速无菌转运。

RTP can be configured, which can be used for rapid and sterile transfer of small instruments and materials.

VHP Pass Box

汽化过氧化氢灭菌传递舱



Product Introduction 产品简介

汽化过氧化氢灭菌传递舱用于对畏湿畏热物品的外表面进行灭菌处理，适用于从低级别洁净区到高级别洁净区的物品传递，从而降低对高级别洁净区的污染。该设备符合我国新版GMP的要求，广泛应用于制药生物工程、实验动物、医疗卫生等领域。

The VHP pass box is used to sterilize the outer surface of moisture and heat resistant items, and is suitable for the transfer of items from low-level clean areas to high-level clean areas, thereby reducing pollution to high-level clean areas. This equipment meets the requirements of the new version of GMP in China and is widely used in fields such as pharmaceutical biotechnology, experimental animals, medical and health care.

Product Advantages 产品优势

- 灭菌能力强** 利用“闪蒸”技术将过氧化氢液体迅速变成过氧化氢气体，实现log6杀灭能力。选用高精度传感器、微计量系统双路检测，精确控制过氧化氢用量，保证灭菌效果。

STRONG STERILIZATION ABILITY Using "flash evaporation" technology to quickly convert hydrogen peroxide liquid into hydrogen peroxide gas, achieving the ability to kill log6. Select high-precision sensors and a dual detection system with micro metering to accurately control the amount of hydrogen peroxide used and ensure sterilization effect.

- 无死角设计** 舱体内表面一体式哑光处理，大圆角设计，无清洁死角。舱体内部水平层流设计，保证过氧化氢气体分布均匀，无灭菌死角。

NO DEAD CORNER DESIGN The interior surface of the cabin is treated with integrated matte-finished, with a large rounded design and no clean dead corners. The horizontal laminar flow design inside the cabin ensures uniform distribution of hydrogen peroxide gas and no sterilization dead spots.



- 易安装维护** 主要零部件和管路均布置在设备单侧，只需预留单侧维修空间，设备占地面积小。

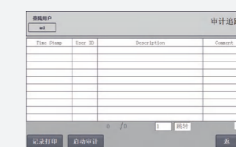
EASY TO INSTALL AND MAINTAIN The main components and pipelines are arranged on one side of the equipment, and only one side maintenance space needs to be reserved. The equipment occupies a small area.

- 除湿效率高** 设备集成控湿功能，可以控制舱体内的湿度。提供干燥剂除湿和压缩气除湿两种配置方案。

HIGH DEHUMIDIFICATION EFFICIENCY The equipment integrates humidity control function, which can control the humidity inside the cabin. Provide two configuration options for desiccant dehumidification and compressed air dehumidification.

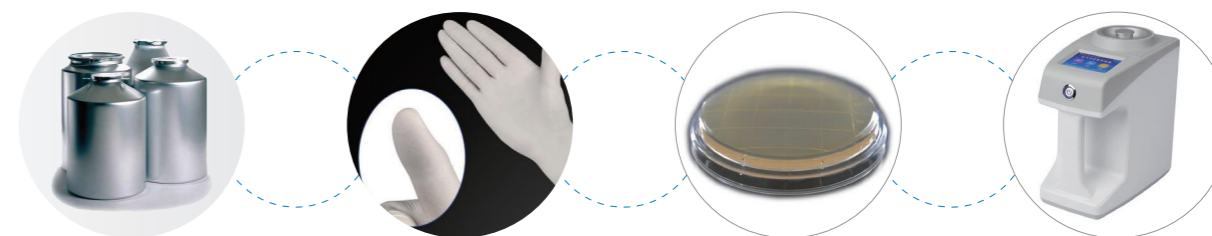
- 自动化水平高** 设备采用西门子TP系列触摸屏，具有三级权限、电子签名、审计追踪、支持SCADA数据采集等功能。

HIGHLY AUTOMATED The device adopts Siemens TP series touch screen, with functions such as three-level permissions, electronic signature, audit tracking, and support for SCADA data collection.



Product Use 产品用途

- 原辅料外包装、操作工具、培养基、环境监测设备等。** Packaging of raw materials, operating tools, culture media, environmental monitoring equipment, etc.



Mobile Ionized Hydrogen Peroxide Sterilizer

移动式电离过氧化氢灭菌器

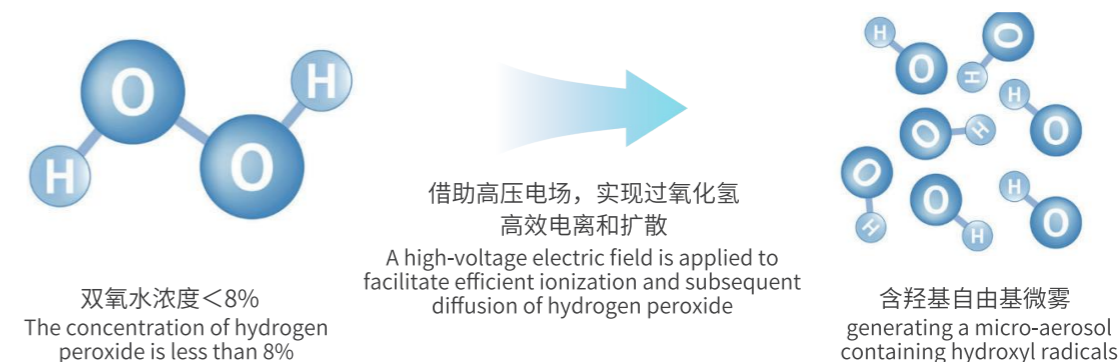


Product Introduction 产品简介

移动式电离过氧化氢灭菌器是新华医疗推出的划时代新产品，将电离过氧化氢技术和AGV技术集成到一起，实现单台设备最大500m³有效灭菌体积，可广泛应用于洁净厂房B级生产区、生物安全实验室等大型空间的灭菌处理。

The Mobile Ionized Hydrogen Peroxide Sterilizer is a groundbreaking new product introduced by Shinva. It integrates ionized hydrogen peroxide (iHP) technology with Automated Guided Vehicle (AGV) technology, enabling a single unit to achieve an effective sterilization volume of up to 500 cubic meters. It is suitable for widespread application in large-scale space sterilization, such as within Grade B production areas of cleanrooms and biosafety laboratories.

Working Principle of Ionized Hydrogen Peroxide 电离过氧化氢的原理



Working Feature of Ionized Hydrogen Peroxide 电离过氧化氢的特点

采用 < 8% 双氧水 Use of < 8% Hydrogen Peroxide

设备采用7.9%双氧水，借助超高速风机和涡旋喷头结构，将其打散成粒径小于2μm的微米级雾滴。7.9%双氧水安全易得，方便管理。

The equipment utilizes a 7.9% hydrogen peroxide solution. Through an ultra-high-speed fan and vortex nozzle structure, the solution is broken down into micron-sized droplets with a particle size of less than 2μm. This low concentration is safe, readily available, and easy to manage.

扩散效果好 Superior Diffusion Effect

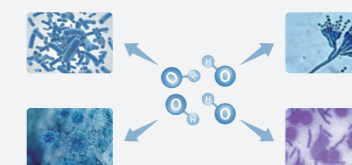
通过高压电场，赋予双氧水微米级雾滴正电荷，借助空间物体表面带负电荷的物理现象，利用异性电荷相吸原理，实现双氧水微米级雾滴对空间内部的高效杀灭。同时，双氧水微米级雾滴均带正电荷，利用同性电荷相斥原理，实现双氧水微米级雾滴在洁净区内更好的扩散效果。

A high-voltage electric field imparts a positive charge to the micron-sized H₂O₂ droplets. Leveraging the physical phenomenon where surfaces in the space typically carry a negative charge, the principle of opposite charges attracting enables the droplets to efficiently target and cover all surfaces for disinfection. Furthermore, as all droplets carry a positive charge, the principle of like charges repelling promotes superior diffusion and uniform distribution throughout the clean area.

杀菌能力强 Powerful Sterilization Capability

借助高压电场，将7.9%双氧水电离产生高浓度羟基自由基，利用其极强的氧化性（氧化电位为2.8 V），破坏致病微生物的各组份，包括脂类、蛋白质和DNA，从而破坏微生物组织，实现log₆级别灭菌。

The high-voltage electric field ionizes the 7.9% hydrogen peroxide, generating a high concentration of hydroxyl radicals. These radicals exploit their extremely strong oxidizing power (redox potential of 2.8 V) to attack various components of pathogenic microorganisms—including lipids, proteins, and DNA—thereby disrupting microbial structures and achieving a log₆ reduction in sterilization.



自动化程度高 High Level of Automation

通过AI视觉定位算法实时解析空间结构，实现厘米级精准定位；同时，智能融合超声波雷达、激光雷达与避障相机的多源数据，构建动态感知系统，可自适应识别不同材质障碍物，并做出快速、可靠的避障决策。

The system employs an AI visual positioning algorithm to analyze the spatial structure in real-time, achieving centimeter-level precision. It intelligently integrates multi-source data from ultrasonic sensors, LiDAR, and obstacle-avoidance cameras to construct a dynamic perception system. This system can adaptively identify obstacles of different materials and make rapid, reliable decisions for obstacle avoidance.

Integrated Vaporized Hydrogen Peroxide Sterilization System

集成式汽化过氧化氢灭菌系统

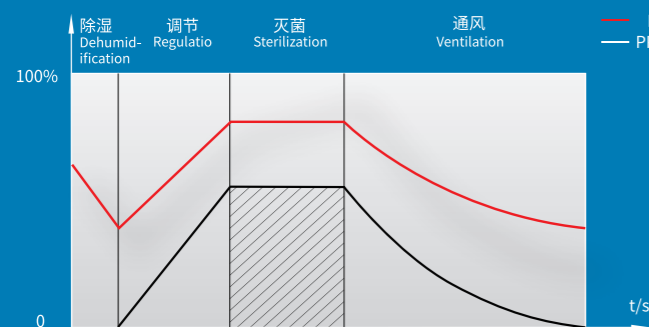


Product Introduction 产品简介

是指将VHP发生设备集成到空调系统，利用空调系统传输、扩散过氧化氢蒸汽，对目标空间灭菌的系统。灭菌前，空调系统对目标空间的温度、湿度进行调整，以满足灭菌需求；灭菌过程中，VHP发生设备产生过氧化氢蒸汽，经空调系统进行传输、扩散，从而实现目标空间的空间灭菌；灭菌后，空调系统开启排残模式，快速排出目标空间内的过氧化氢蒸汽。

It refers to a system that integrates VHP generation equipment into the air conditioning system, uses the air conditioning system to transmit and diffuse hydrogen peroxide steam, and sterilizes the target space. Before sterilization, the air conditioning system adjusts the temperature and humidity of the target space to meet the sterilization requirements; During sterilization, the VHP generator generates hydrogen peroxide steam, which is transmitted and diffused through the air conditioning system to achieve space sterilization of the target space; After sterilization, the air conditioning system will open the residue removal mode to rapidly discharge hydrogen peroxide vapor in the target space.

Technological Process 工艺流程



除湿阶段 Dehumidification stage

在开始向目标空间加注过氧化氢蒸汽之前，空调系统将目标空间内的相对湿度控制在40-60%之间，温度控制在26-30℃之间，为程序进入调节阶段做准备。

Before starting to inject hydrogen peroxide vapor into the target space, the air conditioning system controls the relative humidity in the target space between 40-60% and the temperature between 26-30 °C to prepare for the adjustment phase of the program.

Product Features 产品特点

合规性好 Good Compliance

借助空调系统扩散VHP蒸汽，实现洁净室和空调系统的整体消杀，符合2023版《GMP指南：厂房设施与设备》中，对于无菌药品空调系统，不仅仅关注生产区，还建议定期或临时对空调系统进行消杀的要求。

Diffusion of VHP vapor through the HVAC system enables comprehensive disinfection of both the cleanroom and the HVAC system itself. This approach aligns with the 2023 edition of the GMP Guide: Facilities and Equipment, which recommends periodic or ad-hoc disinfection of HVAC systems for sterile drug production, emphasizing that focus should extend beyond the production area to include the air handling system.

自动化程度高 Highly Automated

空调系统集中控制，一键灭菌。支持SCADA数据采集，具备审计追踪功能。

The air conditioning system is centrally controlled and sterilized with one button. Support SCADA data collection, with audit tracking function.

安全性好 Good Safety

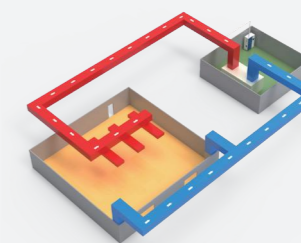
具有自主知识产权的闪蒸器结构，先进的汽化控制方案，保证过氧化氢汽化完全，实现干法灭菌，腐蚀性小，材料兼容性好。灭菌后，过氧化氢分解为水和氧气，对人员和环境友好。

The flash evaporator structure with independent intellectual property rights and advanced vaporization control scheme ensure the complete vaporization of hydrogen peroxide, realize dry sterilization, with low corrosivity and good material compatibility. After sterilization, hydrogen peroxide is decomposed into water and oxygen, which is friendly to people and the environment.

灭菌能力强 Strong Sterilization Ability

利用“闪蒸”技术将过氧化氢液体迅速变成过氧化氢气体，并通过空调系统将其扩散到目标空间，可应对复杂空间的灭菌需求。最大灭菌区域容积可达2000 m³以上。

The "flash evaporation" technology is used to rapidly change hydrogen peroxide liquid into hydrogen peroxide gas, and the air conditioning system will diffuse it to the target space, which can meet the sterilization requirements of complex space. The maximum sterilization area volume can reach more than 2000 m³.



行业引领 Industry Leadership

新华医疗作为主持起草单位牵头编制的团体标准《集成式汽化过氧化氢灭菌系统》已正式发布，为集成式汽化过氧化氢灭菌系统确立行业通用技术基准！



Shinva, as the lead drafting unit, has officially released the group standard Integrated Vaporized Hydrogen Peroxide Sterilization System. This establishes a universal technical benchmark for integrated VHP sterilization systems within the industry.

调节阶段 Regulation stage

VHP发生设备开始产生过氧化氢蒸汽，经过分配管道进入空调系统，目的是迅速提升目标空间内过氧化氢浓度水平。

The VHP generation equipment starts to generate hydrogen peroxide steam, which enters the air conditioning system through the distribution pipeline, in order to rapidly increase the hydrogen peroxide concentration level in the target space.

灭菌阶段 Sterilization stage

过氧化氢蒸汽持续通过分配管道进入空调系统，维持目标空间的过氧化氢浓度水平，直至灭菌完成。

The hydrogen peroxide steam continuously enters the air conditioning system through the distribution pipe to maintain the hydrogen peroxide concentration level in the target space until the sterilization is completed.

通风阶段 Ventilation stage

VHP发生设备停止加注过氧化氢蒸汽，空调开启排残模式，迅速降低目标空间过氧化氢浓度至安全水平。

The VHP generator stops filling hydrogen peroxide steam, and the air conditioner starts the residue removal mode to rapidly reduce the hydrogen peroxide concentration in the target space to a safe level.

Mobile Vaporized Hydrogen Peroxide Sterilizer

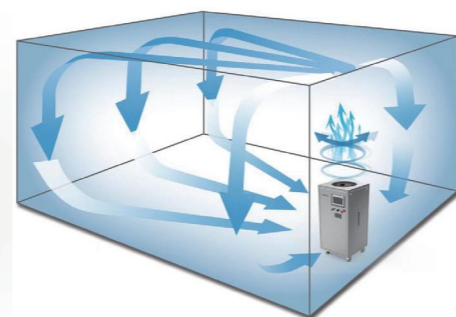
移动式汽化过氧化氢灭菌器



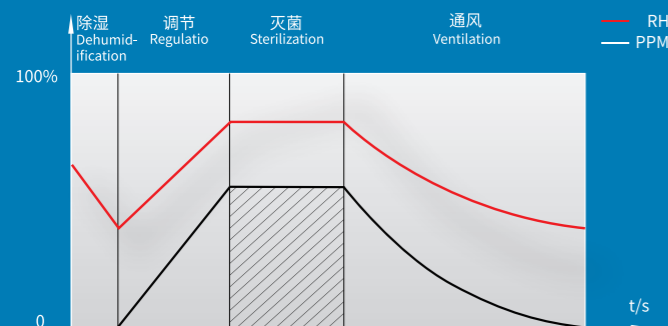
Product Introduction 产品简介

设备利用“闪蒸”技术将过氧化氢液体迅速变成过氧化氢气体，经过设备顶部的螺旋送风模块，最大限度的实现过氧化氢蒸汽在密闭空间内的扩散，确保过氧化氢蒸汽在目标空间的均匀分布。

The equipment uses the "flash evaporation" technology to quickly turn hydrogen peroxide liquid into hydrogen peroxide gas, which passes through the spiral air supply module on the top of the equipment to maximize the diffusion of hydrogen peroxide vapor in the confined space and ensure the uniform distribution of hydrogen peroxide vapor in the target space.



Technological Process 工艺流程



除湿阶段 Dehumidification stage

在开始向目标空间加注过氧化氢蒸汽之前，空调系统将目标空间内的相对湿度控制在45%以下，温度控制在25°C以上，为程序进入调节阶段做准备。

Before the mobile vaporized hydrogen peroxide sterilizer begins to inject hydrogen peroxide vapor into the target space, the air conditioning system controls the relative humidity in the target space to below 45% and the temperature to above 25 °C, preparing for the program to enter the adjustment phase.

Product Features 产品特点

完善的产品架构 Comprehensive Product Architecture

设备可选配汽化模块、通风模块、浓度检测模块，各模块采用无线通讯，主机协调控制，为大空间、多房间灭菌提供整体解决方案。

The equipment can be equipped with vaporization module, ventilation module, and concentration detection module. Each module adopts wireless communication and coordinated control of the host, providing an overall solution for sterilization in large spaces and multiple rooms.

灭菌能力强 Strong Sterilization Ability

利用“闪蒸”技术将过氧化氢液体迅速变成过氧化氢气体，并通过设备扩散系统将其扩散到目标空间，理论灭菌体积可达500 m³以上。

Using "flash evaporation" technology to quickly convert hydrogen peroxide liquid into hydrogen peroxide gas, and diffuse it to the target space through the equipment diffusion system, with a theoretical sterilization volume of up to more than 500 m³.

数据可追溯性 Data Traceability

设备配有针式打印机和西门子屏，具备电子签名、电子记录、审计追踪等功能。

The equipment is equipped with a needle printer and a Siemens screen, with functions such as electronic signature, electronic recording, and audit tracking.

设备安全性 Equipment Safety

设备配有完善的过氧化氢浓度检测功能。主机配有固定式过氧化氢浓度探头，用于灭菌区域内的实时参数监控。同时配有手持式过氧化氢浓度探头，用于人员进入灭菌区域前的安全防护。

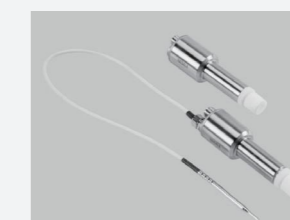
The equipment is equipped with a comprehensive hydrogen peroxide concentration detection function. The host is equipped with a fixed hydrogen peroxide concentration probe for real-time parameter monitoring in the sterilization area. Equipped with a handheld hydrogen peroxide concentration probe, it is used for safety protection before personnel enter the sterilization area.

操作便捷性 Convenience of Operation

采用Ipad远程操作，人员可在灭菌区域外实现对设备的监控与操作。设备自动运行，灭菌过程无需人工干预。



By using Ipad remote operation, personnel can monitor and operate the equipment outside the sterilization area. The equipment operates automatically, and the sterilization process does not require manual intervention.



调节阶段 Regulation stage

提升浓度阶段，设备持续向目标空间加注过氧化氢蒸汽，直至达到灭菌所需浓度。

During the concentration increase phase, the equipment continues to inject hydrogen peroxide vapor into the target space until the required concentration for sterilization is reached.

灭菌阶段 Sterilization stage

闷消阶段，在此阶段维持目标空间的过氧化氢浓度至灭菌完毕。

During the sterilization stage, maintain the hydrogen peroxide concentration in the target space until sterilization is completed.

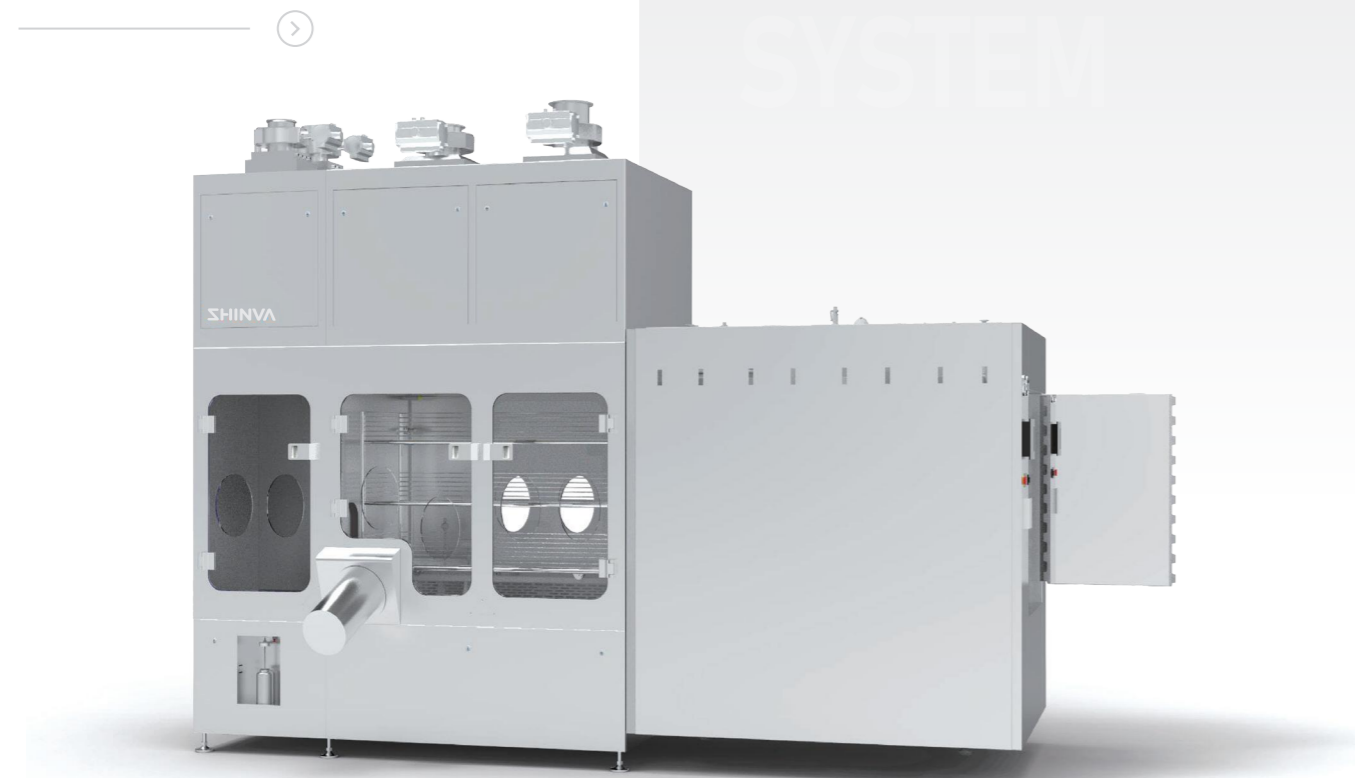
通风阶段 Ventilation stage

空调系统开启排残模式，迅速降低目标空间过氧化氢浓度至安全水平。

The air conditioning system activates residual removal mode, quickly reducing the hydrogen peroxide concentration in the target space to a safe level.

Combined Sterile Transport System

组合型无菌转运系统



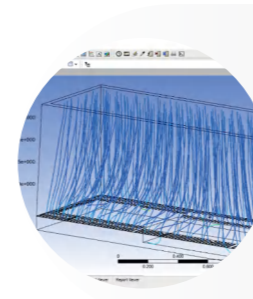
Product Introduction 产品简介

隔离器与灭菌器密封对接，灭菌器灭菌后物品直接转入隔离器内，通过物理屏障，完全隔离了操作人员与产品的接触；隔离器集成汽化过氧化氢灭菌系统，可实现生物指示物下降6个对数，内部A级单向气流保护核心区域暴露的产品，达到SAL10⁻⁶的无菌保障水平；灭菌器+隔离器的组合应用可实现物品在C级区下的无菌转运，相对于传统B+A的无菌转运方式，降低了背景环境等级，能有效降低运行能耗。

The isolator and sterilizer are hermetically docked. After sterilization, items are transferred directly into the isolator, creating a physical barrier that completely isolates operators from the product. The isolator integrates a vaporized hydrogen peroxide (VHP) sterilization system, capable of achieving a log6 reduction with biological indicators. An internal Grade A unidirectional airflow protects the product in the critical exposure zone, attaining a Sterility Assurance Level (SAL) of 10⁻⁶. The combined application of the sterilizer and isolator enables the sterile transfer of items under a Grade C background environment. Compared to the traditional Grade B + A approach, this configuration reduces the required background classification and effectively lowers operational energy consumption.

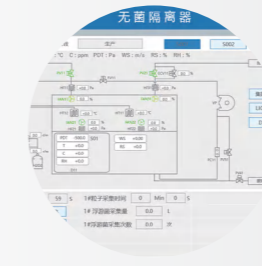
COMBINED
STERILE
TRANSPORT
SYSTEM

Product Advantages 产品优势



设计结构经过流体软件分析，气流流型、压差和风速控制有保证；

The structural design is analyzed with fluid dynamics software, ensuring controlled airflow patterns, pressure differential, and wind speed;



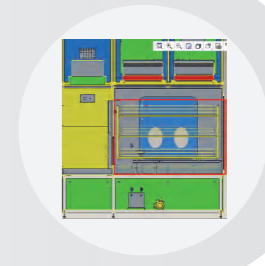
上位机采用平板电脑，PID显示，界面友好，实现电子签名、批记录、数据报表、历史曲线、审计追踪和历史报警等多重数据分析处理；

The host computer utilizes a tablet PC with a user-friendly PID display interface, enabling multiple data analysis and processing functions including electronic signatures, batch records, data reporting, historical trends, audit trails, and historical alarms;



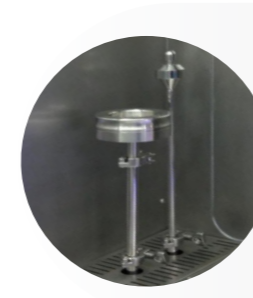
隔离器与灭菌器之间焊接密封，焊后磨平焊缝，易清洁，无检修死角；

The isolator and sterilizer are seal-welded together, with welds ground flat post-welding for easy cleaning and no maintenance dead corners;



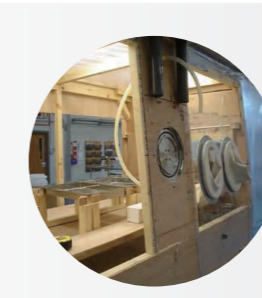
隔离器内设计可翻转轨道，灭菌器开门后灭菌器内车方便转移至隔离器操作舱内；

The isolator is equipped with a flip-down transfer rail, allowing the trolley from the sterilizer to be conveniently transferred into the isolator's operation chamber after the sterilizer door is opened;



在线环境监测系统集成度高，操作简便，采样管路可在线利用汽化过氧化氢灭菌，采集报表独立生成；

The integrated online environmental monitoring system is user-friendly, featuring sampling lines that can be sterilized online with vaporized hydrogen peroxide (VHP), with collected data reports generated independently;



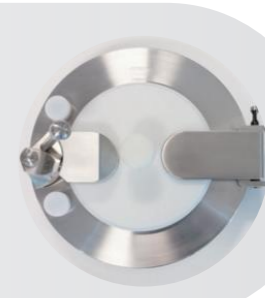
DQ时木模确认，保证隔离器手套的布置满足客户工艺操作需求，人员操作舒适；

During the Design Qualification (DQ), model confirmation ensures the isolator glove arrangement meets the client's operational process requirements, providing comfortable operation for personnel;



集成式汽化过氧化氢灭菌系统，过氧化氢浓度在线监测，可快速灭菌，并达到log6的灭菌效果；

The integrated vaporized hydrogen peroxide (VHP) sterilization system, with online hydrogen peroxide concentration monitoring, enables rapid sterilization and achieves a log-6 reduction efficacy;

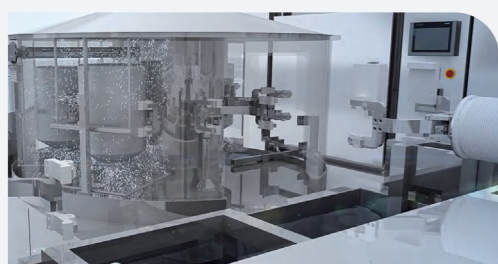
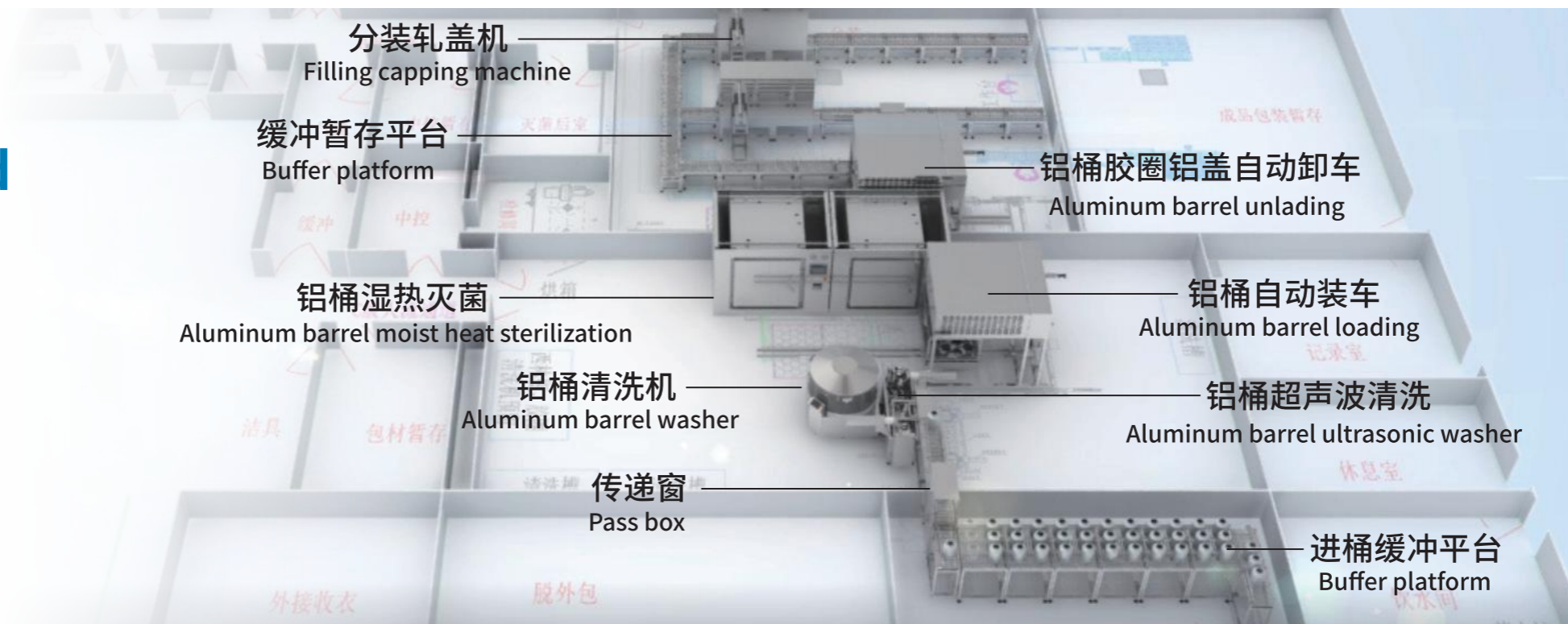


可配置RTP，可用于小型器具及包材等物品的快速无菌转运。

An RTP (Rapid Transfer Port) can be configured for the rapid aseptic transfer of small tools and packaging materials.

Automatic API Barrel Cleaning and Sterilizing System

原料药桶自动清洗灭菌系统

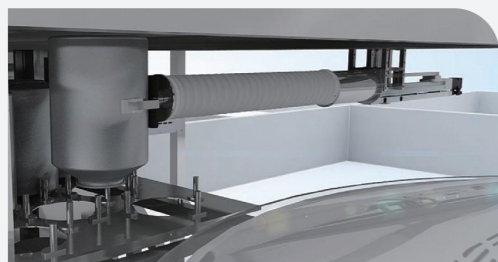


Automatic Washing Process

全自动清洗

连续式清洗及自动隔断技术，“两水两气”四工位清洗工艺,保证清洗速度及清洗效果。

Continuous washing and automatic isolation technology, two-water two-air total 4 washing stations, to ensure washing speed and washing efficiency.



Automatic Loading and Unloading Process

全自动装卸

三坐标搬运机械手，实现A级层流下铝桶的自动无人化转运。

Three-coordinate handling manipulator realizes automatic transfer of aluminum barrel under A-level laminar flow.

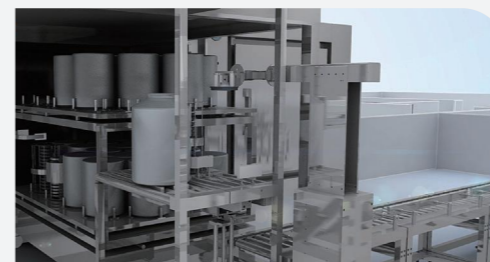


Automatic Moist Heat Sterilization Process

全自动湿热灭菌

采用清洗加湿热灭菌去热原技术，保证灭菌效果。

Cleaning and moist heat sterilization and depyrogenation technology are used to ensure the sterilization effect.



Automatic Cap Insertion

内盖自动加盖

独创内盖自动加盖，精确实现铝盖的抓取及加盖的自动化。

Unique automatic insertion of the inner cap, automatic aluminum cap grasping.

Sterile Assurance Management Platform

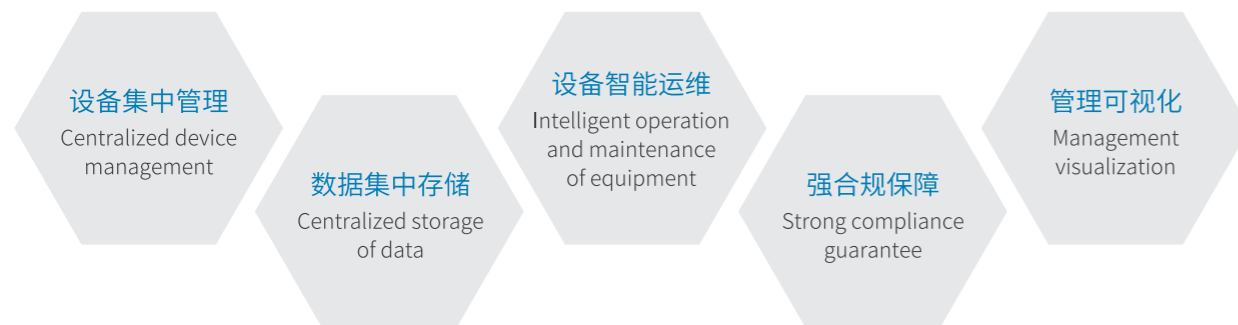
无菌保障管理平台

Product Introduction 产品简介

系统是针对新华医疗无菌保障产品线的管理系统，实现药厂区域设备的数据实时监控，集中管理，设备的智能运维，主动式的设备维修保养规则提醒，规避设备在使用过程中出现故障，对于和设备相关的数据集中存储管理，实现文档资料的安全管理、协同工作、知识管理，促进设备管理和质量管理的高效进行，并对设备数据进行深度应用，实现设备的可视化管理。

The system is a management system for the sterile protection product line of Xinhua Medical, achieving real-time monitoring and centralized management of equipment in the pharmaceutical factory area, intelligent operation and maintenance of equipment, proactive reminders of equipment maintenance rules, avoiding equipment failures during use, centralized storage and management of equipment related data, and safe management, collaborative work, and knowledge management of document materials, Promote efficient equipment management and quality management work, and deeply apply equipment data to achieve visual management of equipment.

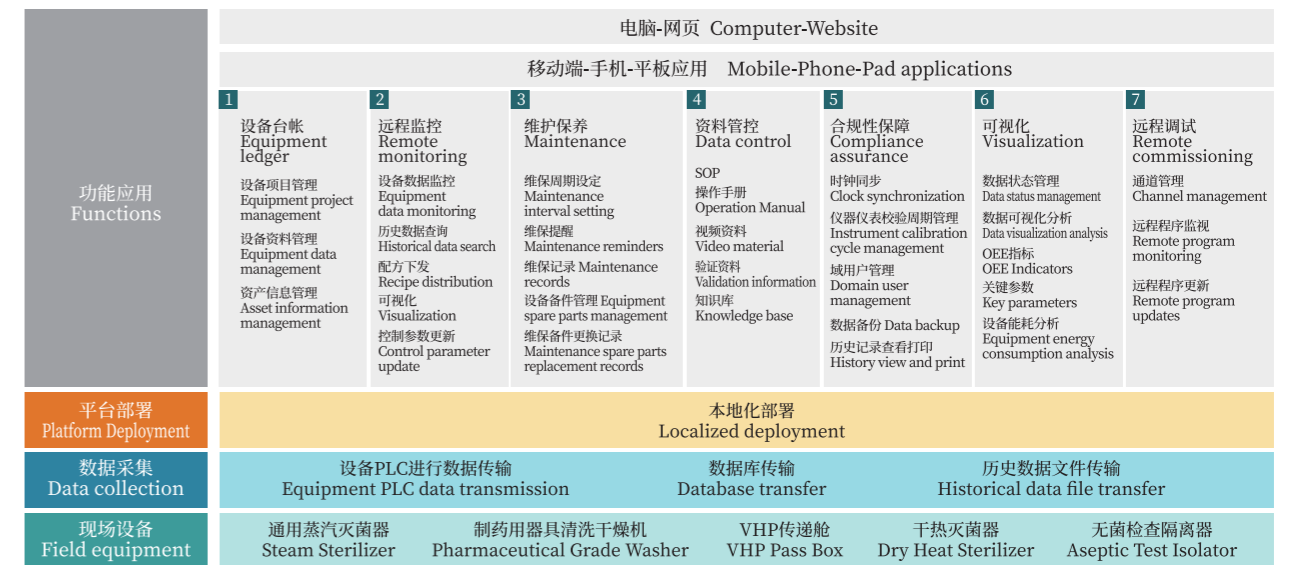
Product Advantages 产品优势



Product Use 产品用途

- 实现区域设备的数据实时监控，集中管理
Realize real-time data monitoring and centralized management of regional equipment
- 主动式的规则提醒，规避设备故障
Proactive rule reminders to avoid equipment failures
- 数据集中管理
Centralized management of data
- 设备相关文档安全存储，协同工作
Secure storage and collaborative work of device related documents
- 设备数据深度应用，可视化设备管理
Deep application of device data and visualization of device management

Functional Architecture Diagram 功能架构图

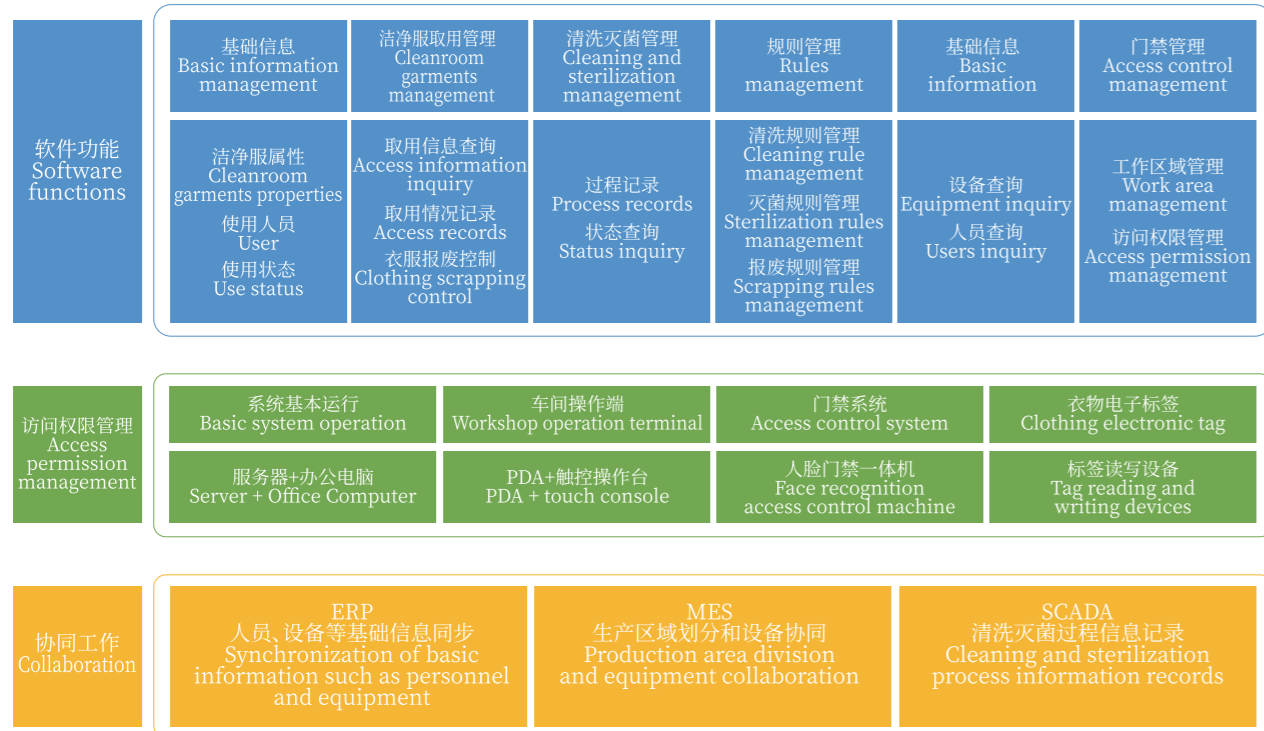


Functional diagram 功能示意图



Cleanroom Garments Intelligent Management System

洁净服智能管理系统



Product Introduction 产品简介

本系统是一套针对制药企业生产人员所穿戴的洁净服进行智能化管理的信息系统。系统的主要作用是为了规范洁净服的使用，提高管理效率，从而保证制药过程的合规性。本系统改变了原有的人工采用纸质记录对洁净服的使用、清洗灭菌和报废等的管理模式，规避管理效率低下，衣物的清洗、灭菌和报废管理易发生遗漏和错误等问题。采用数字化手段对洁净服生命周期进行追溯，满足相应的法规要求，保证制药过程的合规性，可与药厂生产车间门禁系统联动，对人员门禁权限进行控制，丰富了企业信息化管理手段。洁净服信息化管理是进一步细化企业信息化管理的一个方面，是实现整个制药过程全面数字化管控的重要一环，对于推进企业信息化发展，提升管理水平有着积极的意义。

This system is an information system for intelligent management of clean clothing worn by production personnel in pharmaceutical enterprises. The main function of the system is to standardize the use of clean clothing, improve management efficiency, and ensure the compliance of the pharmaceutical process. This system has changed the original management mode of manually recording the use, cleaning, sterilization, and scrapping of clean clothes using paper records, avoiding low management efficiency, and the easy occurrence of omissions and errors in clothing cleaning, sterilization, and scrapping management. Using digital means to trace the lifecycle of clean clothing, meeting corresponding regulatory requirements, ensuring compliance with the pharmaceutical process, can be linked with the access control system of the pharmaceutical factory's production workshop, controlling personnel access permissions, and enriching enterprise information management methods. Clean clothing information management is an aspect of further refining enterprise information management, and an important part of achieving comprehensive digital control of the entire pharmaceutical process. It has positive significance for promoting enterprise information development and improving management level.

Product Advantages 产品优势

- 管理的合规性 Compliance of management**
 依据GMP法规要求进行功能设计，功能细节丰富，支持管理规则自定义，在法规框架下实现个性化管理。
 Design functions according to GMP regulations, with rich functional details and support for customization of management rules, achieving personalized management within the regulatory framework.
- 高效的智能化管理 Efficient intelligent management**
 全数字化管理，脱离纸质记录，各环节高效便捷；洁净服的使用、清洗灭菌和报废等操作自动记录、主动预警，智能管理。
 Fully digital management, separated from paper records, efficient and convenient in all aspects; Automatic recording, proactive warning, and intelligent management of the use, cleaning, sterilization, and scrapping of clean clothing.
- 门禁等相关系统联动 Linkage of access control and other related systems**
 通过将洁净服与使用人员进行绑定，从而将电子标签作为人员的身份识别标识，配合相应的门禁识别设备，能够实现门禁控制。
 By binding the clean clothes with the users, electronic tags can be used as personnel identification tags, combined with corresponding access control identification devices, to achieve access control.
- 统一的基础信息 Unified basic information**
 在企业整体信息系统架构下，进行系统基础信息的配置，支持多种数据交互方式，实现与各信息系统的无缝衔接。
 Under the overall information system architecture of the enterprise, configure the basic information of the system, support multiple data exchange methods, and achieve seamless connection with various information systems.

Product Use 产品用途

- 洁净服清洗灭菌管理**
 Cleaning and sterilization management of clean clothing
- 洁净服生命周期管理**
 Clean clothing lifecycle management
- 人员门禁的协同控制**
 Collaborative control of personnel access control



Sterile Assurance Consumables

无菌保障耗材

Cleaning / Disinfectionclass 清洗/消毒类



新华牌碱性强效CIP清洁剂
SHINVA brand alkaline strong CIP cleaner



新华牌酸性强效CIP清洁剂
SHINVA brand acidic strong CIP cleaner



新华莎罗雅酸酚/碱酚消毒液
SHINVA Saraya acid phenol/alkaline phenol disinfectant



新华莎罗雅过氧乙酸消毒液
SHINVA Saraya peracetic acid disinfectant



新华莎罗雅3%/6%过氧化氢消毒液
SHINVA Saroya 3%/6% Hydrogen Peroxide Disinfectant

Chemical testing 化学检测类



新华牌压力蒸汽
灭菌化学指示卡
SHINVA brand pressure steam sterilization chemical indicator card



新华牌B-D试验包
SHINVA brand B-D test package



新华牌B型压力蒸汽
灭菌化学指示标签
SHINVA brand B-type pressure steam sterilization chemical Indicator label



新华牌B型压力蒸汽
灭菌化学指示胶粘带
SHINVA brand B-type pressure steam sterilization chemical indicator adhesive tape

Packaging and transportation 包装转运类



洁净纸塑包装袋
Clean paper plastic packaging bags



Tyvek超洁净药用灭菌袋
Tyvek ultra clean medicinal sterilization bag



热封机
Heat sealing machine

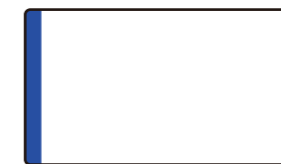
Chemical testing 化学检测类



新华牌压力蒸汽
灭菌封包胶粘带
SHINVA brand pressure steam sterilization packaging adhesive tape



新华牌制药领域
过氧化氢灭菌化学指示卡
SHINVA pharmaceutical field hydrogen peroxide sterilization chemical indicator card



新华牌制药领域
过氧化氢灭菌化学指示标签
SHINVA pharmaceutical field hydrogen peroxide sterilization chemical indicator label



新华牌过氧化氢
低温灭菌过程指示胶带
SHINVA brand hydrogen peroxide low-temperature sterilization process indicator tape

Biological indicators 生物指示剂类



新华牌压力蒸汽
灭菌生物指示剂
SHINVA brand pressure steam sterilization biological indicator



新华牌水浴灭菌
生物指示剂
SHINVA brand water bath sterilization biological indicator



新华牌汽化过氧化氢 (VHP)
空间灭菌效果生物指示剂
SHINVA brand vaporized hydrogen peroxide (VHP) biological indicator for space sterilization effect

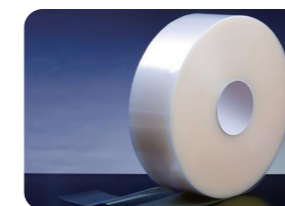


新华牌干热
灭菌生物指示剂
SHINVA brand dry heat sterilization biological indicator

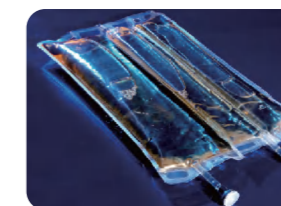
Injection packaging materials 注射剂包装材料



粉液双室袋用
共挤输液用膜
The powder-liquid double-chamber bag co-extrusion infusion film



特殊输液用膜
Film used for special infusion



液液多室袋用
共挤输液用膜
Liquid multi-chamber bag co-extrusion infusion film



单室袋用三层
共挤输液用膜
The single chamber bag three layers co-extrusion infusion film

Life Science Industry Integration, Automation, Informationization

生命科学产业一体化、自动化、信息化

Utilities 公用工程

- 洁净空调控制系统 Clean conditioning system
- 环境监测系统 Environmental monitoring system
- 纯化水、注射用水系统 PW/WFI system
- 弱电系统集成 Weak electricity integration
- 能源系统 Utility system
- 生产设备控制系统升级 Control system updating of production equipment
- 生产智能信息展示系统 Display system of intelligent production information



Automation of Engineering Process 工艺过程自动化

- 制剂过程控制系统 Control system for drug preparations production
- 原料药过程控制系统 Control system for API production
- 生物制药过程控制系统 Control system for biological pharmaceuticals production
- 固体制剂过程控制系统 Control system for solid preparations production
- 中药过程控制系统 Control system for traditional chinese medicine production



Plant Information System 工厂信息系统

- 数据采集与监视控制系统 Supervisory Control and Data Acquisition
- 制造执行系统 Manufacturing Execution System
- 信息显示系统 Information Display System
- 智能仓储管理系统 Warehouse Management System
- 计算机化系统验证 Computerized System Validation



Pharmaceutical Engineering, Information Engineering, Automation Engineering, Weak Electricity System

新华医疗制药行业自动化、信息化整体解决方案
制药工程、信息工程、自动化控制、弱电系统工程

01



公用工程自动化

新华医疗提供符合GMP、FDA、EMA规范的“一站式”公用工程控制系统。通过先进的、完善的控制方案，降低能源消耗，保障洁净室环境，减少设备故障，降低维护及运营成本。

“One-station” type utilities control system compliant with GMP, FDA and EMA can reduce energy consumption, guarantee clean room environment, lower equipment failure and maintenance cost.

02



工艺过程自动化

新华医疗提供符合GMP、FDA、EMA规范的“一站式”工艺过程自动化控制系统解决方案。通过精确的、优化的控制方案保证产品质量，提高生产效率，降低生产成本，保证生产安全。

The integration solution for engineering process automation covering main process and supporting process can greatly guarantee product quality, raise production efficiency, reduce cost and ensure production safety.

03



工厂信息系统

新华医疗提供符合GMP、FDA、EMA规范的“一站式”工厂信息化控制系统解决方案。通过及时、准确、全面的信息系统，提高生产协作化水平，改进生产流程，追溯事故问题，方便企业管理。

GMP, FDA, EMA compliant factory informatization solution provide quick, accurate and complete information system to improve production harmonization and process, track accident and problems and facilitate enterprise management.