

Infection Control Systems

For health Be credible



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*Version: 2016-1



SHINVA 新华医疗



From China to the world

SHINVA was established in 1943 with history over 70 years. As the chairman unit of China Association for Medical Devices Industry (CAMDI), SHINVA group is leading in the field of medical instruments and equipment, pharmaceutical equipment and medical medicine service.

Infection Control Division, which focuses on washing, disinfection and sterilization, is one of the biggest divisions in SHINVA group. Since the first generation sterilizer invented, SHINVA has led infection control field more than 40 years in China. As China's national disinfection sterilization equipment research center, SHINVA is the unique company in China which can supply turn-key CSSD project and integrated solutions including design, engineering, decoration, equipment, consumables, tracking and management software and service, etc. Until now, SHINVA has completed more than 5000 CSSD projects in the whole country taking 50% market shares.

For international market, SHINVA's products have been launched over 100 countries or regions in the world. Now SHINA is firmly walking on the way from China to the world.



SHINVA complies with ISO9001, ISO13485 and ISO14001, CE, PED and ASME quality management systems.

7 integrated solutions in Infection Control Division



15 series products

1 High temperature sterilization equipment	2 Low temperature sterilization equipment	3 Washing and disinfection equipment
4 Endoscope washing and disinfection equipment	5 Baby bath products	6 Inpatient area washing and disinfection equipment
7 Medical drying equipment	8 CSSD furniture and logistics products	9 CSSD tracking manage software
10 Engineering project	11 Chemical monitoring products	12 Washing and lubricating products
13 Packing material products	14 Disposable sterile operation kits	15 Disinfectant products

Content >>>>

▶ CSSD (Central Sterile Supply Department)

P₄



▶ Low Temperature Sterilizer

P₂₆



▶ Steam Sterilizer

P₆



▶ Washer-disinfector

P₃₄



▶ Small Steam Sterilizer

P₁₈



▶ Medical Drying Cabinet

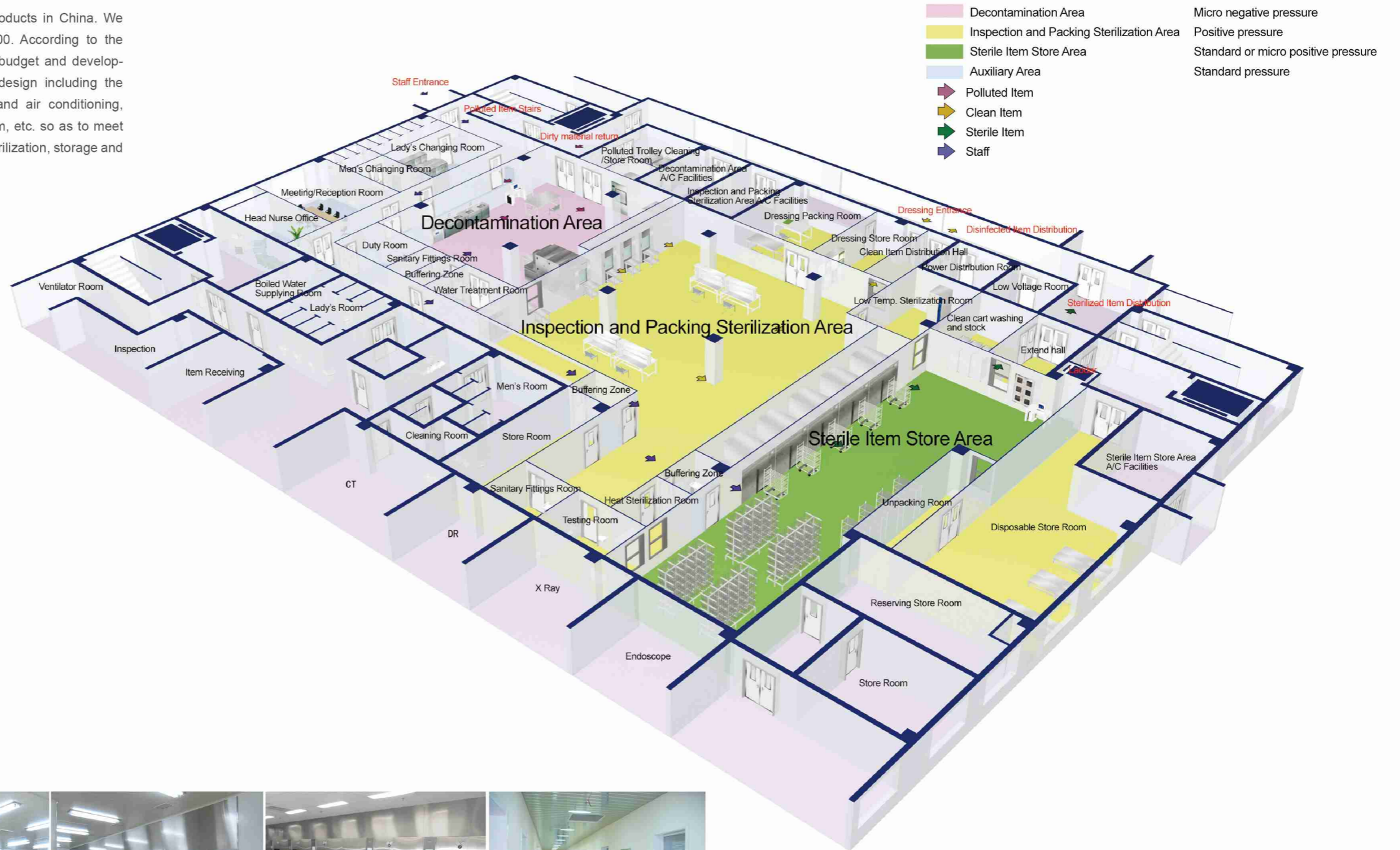
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CSSD(Central Sterile Supply Department)

SHINVA is the largest manufacturer of infection control products in China. We supplied the integrated solutions for hospital CSSD from 2000. According to the sickbed numbers, surgery operations, outpatient amount, site, budget and development planning in hospitals, we offer the integrated suitable design including the process layout, equipment configuration, heating ventilating and air conditioning, decoration and purification, tracking and quality manager system, etc. so as to meet the requirements for washing, disinfection, checking, packing, sterilization, storage and dispatch in hospital and society CSSD.

- 01 Design**
Optimal process plan
- 02 Equipment**
Reasonable equipment configuration
- 03 Construction**
Best construction scheme
- 04 Installation and commissioning**
Safety and advisable scheme
- 05 Training**
Systematic theory and actual operation
- 06 Maintenance**
Free technology consulting, fast feedback and action



MAST-A Steam Sterilizer



Product introduction

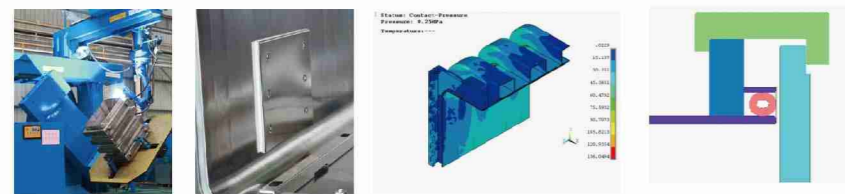
MAST-A is a fast, compact and versatile sterilizer which is researched and developed according to the latest requirements of medical institution and CSSD. It is designed and manufactured combines high capacity with cost-efficiency, while offering high operating reliability and easy maintenance.

The design of chamber accords with state GB1502011, GB8599-2008, CE and European EN285 standard.

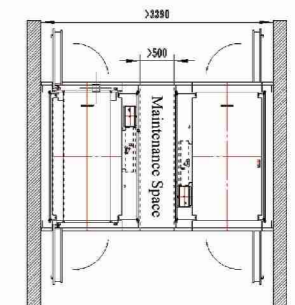


Product features

- Superb chamber machining and welding process**
 The acid-proof stainless steel chamber and jacket are automatically robot-welded to guarantee long time and trouble-free operation.
- Nice chamber surface**
 Surface Smoothness, $Ra \leq 0.5$; No welding part or bolt in the chamber which effectively protects the items to be sterilized. Steam baffle plates are surrounded by silicon rubber protecting the chamber surface.
- Reliable and durable chamber**
 Chamber is designed according to professional analytical method. High-emulation software ANSYS is used for chamber simulation. Design service life: 10 years (or 20000 times sterilization)
- Reasonable sealing structure**
 Compact designed sealing groove, durable circular hollow silicon gasket, sealed by compressed air.
- Hanged door automatically**
 The door is driven by a motor automatically, stable and easy operation. Door concave-convex tooth structure ensures its safety and durability.

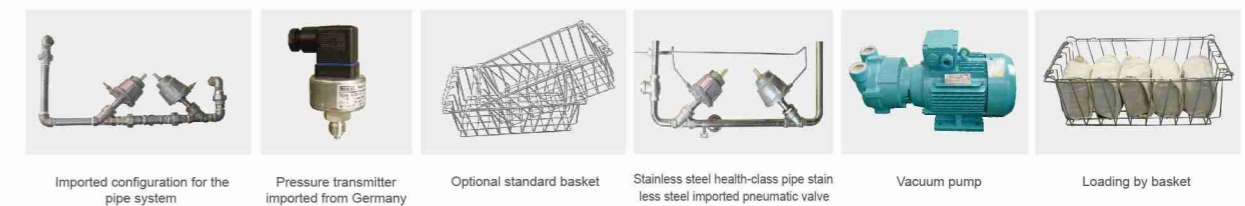


- Precise pressure detecting and control**
 Intelligent pressure transmitters, Wika (Germany), ensure steam pressure detecting and control both in Chamber and jacket.
- Unique vacuum noise-reduction system**
 LNS low-noise and water-saving vacuum system, effective reduced the noise during running.
- Humanized operation system**
 Colorful touch screen on loading-side, 6 indicating lamps on unloading sides, which are concise, vivid and exactly showing sterilization running status and alarming information.
- Reasonable pipeline layout**
 All the pipes, valves and components are designed and installed in single side, which is more convenience for repair and maintenance. The sterilizers can be installed against the wall and also, two sterilizers can use the same maintenance space to save installation space.



Scientific design parameters, wide scope of application

Item	Chamber	Jacket
Design pressure MPa	-0.1/0.3	0.3
Design temperature °C	144	144
Working pressure MPa	0.25	0.25
Max. Working temperature °C	139	139
Safety valve open pressure	0.28	0.28



Loading-side Panel



8" Colorful display touch screen
Powerful PLC as central processor

Display information on main menu:

- P-Chamber
- T-Chamber
- P-Jacket
- Door operation
- Alarm recording
- Log out
- Quick start
- Run program
- Auxiliary function
- Program setting
- System setting
- Date

32 built-in programs

- 1 Warm Up
- 2 B&D Test
- 3 Fabric
- 4 Instrument
- 5 Thermolabile
- 6 Flash
- 7 Orthopedics
- 8 Leak Test
- 9 Prion
- 10 Optical
- 11 Heavy Load
- 12 Small Load
- 13 Open Liquid
- 14 Gravity
- 15 Positive
- 16 Dry
- 17 PCD Test
- 18 A/D Test
- 19-32 User Defined

Unloading-side Panel



Humanistic indicating system

- Back door closing indicating lamp
- Back door closed lamp
- Cycle running lamp
- Cycle end indicating lamp
- Breakdown indicating lamp
- Power lamp

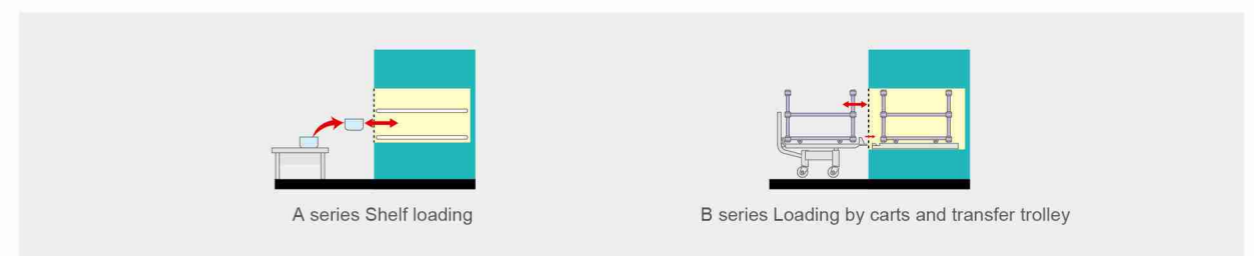
Sterilization consumables



Technical parameters

Model	Volume (L)	Order code	Net weight (kg)	Input power (kVA)	Power supply (W×H×Dmm)	Chamber dimension (W×H×Dmm)	Overall dimension (W×H×Dmm)	Remark
MAST-A-140	146	MAST-A-140D-A-N	425	2.5	AC 380V,50Hz	420×420×830	1035×1700×1100	single door/external steam supply/shelf load
		MAST-A-140DD-A-N	525	18	AC 380V,50Hz	420×420×830	1035×1700×1100	single door/built-in electric steam generator/shelf load
		MAST-A-140S-A-N	510	2.5	AC 380V,50Hz	420×420×830	1035×1700×1200	double door/external steam supply/shelf load
		MAST-A-140SD-A-N	610	18	AC 380V,50Hz	420×420×830	1035×1700×1200	double door/built-in electric steam generator/shelf load
MAST-A-240	241	MAST-A-240D-A-N	580	2.5	AC 380V,50Hz	600×600×670	1286×1848×1000	single door/external steam supply/shelf load
		MAST-A-240DD-A-N	660	24	AC 380V,50Hz	600×600×670	1286×1848×1000	single door/built-in electric steam generator/shelf load
		MAST-A-240S-A-N	660	2.5	AC 380V,50Hz	600×600×670	1286×1848×1100	double door/external steam supply/shelf load
		MAST-A-240SD-A-N	720	24	AC 380V,50Hz	600×600×670	1286×1848×1100	double door/built-in electric steam generator/shelf load
		MAST-A-240D-B-N	600	2.5	AC 380V,50Hz	600×600×670	1286×1848×1000	single door/external steam supply/cart and trolley load
		MAST-A-240DD-B-N	680	24	AC 380V,50Hz	600×600×670	1286×1848×1000	single door/built-in electric steam generator/trolley load
		MAST-A-240S-B-N	680	2.5	AC 380V,50Hz	600×600×670	1286×1848×1100	double door/external steam supply/trolley load
		MAST-A-240SD-B-N	740	24	AC 380V,50Hz	600×600×670	1286×1848×1100	double door/built-in electric steam generator/trolley load
MAST-A-350	352	MAST-A-350D-A-N	780	2.5	AC 380V,50Hz	600×600×980	1286×1848×1225	single door/external steam supply/shelf load
		MAST-A-350DD-A-N	880	24	AC 380V,50Hz	600×600×980	1286×1848×1225	single door/built-in electric steam generator/shelf load
		MAST-A-350S-A-N	860	2.5	AC 380V,50Hz	600×600×980	1286×1848×1240	double door/external steam supply/shelf load
		MAST-A-350SD-A-N	960	24	AC 380V,50Hz	600×600×980	1286×1848×1240	double door/built-in electric steam generator/shelf load
		MAST-A-350D-B-N	880	2.5	AC 380V,50Hz	600×600×980	1286×1848×1225	single door/external steam supply/cart and trolley load
		MAST-A-350DD-B-N	1000	24	AC 380V,50Hz	600×600×980	1286×1848×1225	single door/built-in electric steam generator/trolley load
		MAST-A-350S-B-N	960	2.5	AC 380V,50Hz	600×600×980	1286×1848×1240	double door/external steam supply/trolley load
		MAST-A-350SD-B-N	1080	24	AC 380V,50Hz	600×600×980	1286×1848×1240	double door/built-in electric steam generator/trolley load
MAST-A-650	655	MAST-A-650D-B-N	1170	4	AC 380V,50Hz	610×910×1180	1286×1980×1400	single door/external steam supply/cart and trolley load
		MAST-A-650DD-B-N	1270	46	AC 380V,50Hz	610×910×1180	1286×1980×1400	single door/built-in electric steam generator/trolley load
		MAST-A-650S-B-N	1270	4	AC 380V,50Hz	610×910×1180	1286×1980×1420	double door/external steam supply/trolley load
		MAST-A-650SD-B-N	1370	46	AC 380V,50Hz	610×910×1180	1286×1980×1420	double door/built-in electric steam generator/trolley load
MAST-A-810	810	MAST-A-810D-B-N	1260	4	AC 380V,50Hz	610×910×1460	1286×1980×1670	single door/external steam supply/cart and trolley load
		MAST-A-810DD-B-N	1360	61	AC 380V,50Hz	610×910×1460	1286×1980×1670	single door/built-in electric steam generator/trolley load
		MAST-A-810S-B-N	1360	4	AC 380V,50Hz	610×910×1460	1286×1980×1700	double door/external steam supply/trolley load
MAST-A-990	999	MAST-A-810SD-B-N	1460	61	AC 380V,50Hz	610×910×1460	1286×1980×1700	double door/built-in electric steam generator/trolley load
		MAST-A-990D-B-N	1300	4	AC 380V,50Hz	610×910×1800	1286×1980×2020	single door/external steam supply/cart and trolley load
		MAST-A-990DD-B-N	1400	61	AC 380V,50Hz	610×910×1800	1286×1980×2020	single door/built-in electric steam generator/trolley load
		MAST-A-990S-B-N	1400	4	AC 380V,50Hz	610×910×1800	1286×1980×2040	double door/external steam supply/trolley load
MAST-A-1200	1203	MAST-A-990SD-B-N	1500	61	AC 380V,50Hz	610×910×1800	1286×1980×2040	double door/built-in electric steam generator/trolley load
		MAST-A-1200D-B-N	1950	5	AC 380V,50Hz	680×1180×1500	1445×1940×1755	single door/external steam supply/cart and trolley load
		MAST-A-1200S-B-N	2050	5	AC 380V,50Hz	680×1180×1500	1445×1940×1760	double door/external steam supply/trolley load
MAST-A-1500	1500	MAST-A-1500D-B-N	2111	5	AC 380V,50Hz	680×1180×1870	1445×1940×2115	single door/external steam supply/cart and trolley load
		MAST-A-1500S-B-N	2211	5	AC 380V,50Hz	680×1180×1870	1445×1940×2130	double door/external steam supply/trolley load

MAST-A	Model instruction
350	Chamber volume (L)
S	Door: S- double door D- single door
D	Steam supply: no marks- outer steam supply D- built-in steam generator
A	Installation: A- Shelf loading B- Loading by cart and trolley
N	Exportation Configuration



MAST-V Steam Sterilizer

Product introduction

MAST-V is a fast, compact and versatile sterilizer which is researched and developed according to the latest requirements of medical institution and CSSD. It is designed and manufactured combines high capacity with cost-efficiency, while offering high operating reliability and easy maintenance.

The design of chamber accords with state GB1502011, GB8599-2008, CE and European EN285 standard.



Product features

Superb chamber machining and welding process

The acid-proof stainless steel chamber and jacket are automatically robot-welded to guarantee long time and trouble-free operation.

Nice chamber surface

Surface Smoothness, Ra≤0.5; No welding part or bolt in the chamber which effectively protects the items to be sterilized. Steam baffle plates are surrounded by silicon rubber protecting the chamber surface.

Reliable and durable chamber

Chamber is designed according to professional analytical method. High-emulation software ANSYS is used for chamber simulation. Design service life: 10 years (or 20000 times sterilization)

Reasonable sealing structure

Compact designed sealing groove, durable circular hollow silicon gasket, sealed by compressed air.

Vertical sliding door

The door is up and down vertical sliding by air cylinder. It is faster and saves space, while offering proven, handles-free convenience.

Precise pressure detecting and control

Intelligent pressure transmitters, Wika (Germany), ensure steam pressure detecting and control both in Chamber and jacket.

Unique vacuum noise-reduction system

LNS low-noise and water-saving vacuum system, effective reduced the noise during running.

Humanized operation system

Colorful touch screen on loading-side, 6 indicating lamps on unloading sides, which are concise, vivid and exactly showing sterilization running status and alarming information.

Reasonable pipeline layout

All the pipes, valves and components are designed and installed in single side, which is more convenience for repair and maintenance. The sterilizers can be installed against the wall and also, two sterilizers can use the same maintenance space to save installation space.

Technical parameters

Model	Order code	Volume	Chamber dimension (W×H×Dmm)	Overall dimension (W×H×Dmm)	Weight (kg)	Input power (kVA)	Power supply (V/Hz)	Remark
MAST-V-280	MAST-V-280D-B-N	280	535×535×1000	1200×1800×1340	920	2.5	AC 380V, 50Hz	Single door/external steam supply/cart and trolley load
	MAST-V-280S-B-N				950	2.5		Double door/external steam supply/cart and trolley load
	MAST-V-280DD-B-N				970	29		Single door/built-in steam generator/cart and trolley load
	MAST-V-280SD-B-N				1000	29		Double door/built-in steam generator/cart and trolley load
MAST-V-450	MAST-V-450D-B-N	450	675×675×1000	1307×1900×1340	1315	4	AC 380V, 50Hz	Single door/external steam supply/cart and trolley load
	MAST-V-450S-B-N				1350	4		Double door/external steam supply/cart and trolley load
	MAST-V-450DD-B-N				1365	46		Single door/built-in steam generator/cart and trolley load
	MAST-V-450SD-B-N				1400	46		Double door/built-in steam generator/cart and trolley load
MAST-V-610	MAST-V-610D-B-N	610	675×675×1350	1307×1900×1690	1515	4	AC 380V, 50Hz	Single door/external steam supply/cart and trolley load
	MAST-V-610S-B-N				1550	4		Double door/external steam supply/cart and trolley load
	MAST-V-610DD-B-N				1565	48		Single door/built-in steam generator/cart and trolley load
	MAST-V-610SD-B-N				1600	48		Double door/built-in steam generator/cart and trolley load
MAST-V-800	MAST-V-800D-B-N	800	675×675×1750	1307×1900×2090	1815	4	AC 380V, 50Hz	Single door/external steam supply/cart and trolley load
	MAST-V-800S-B-N				1850	4		Double door/external steam supply/cart and trolley load
	MAST-V-800DD-B-N				1865	54		Single door/built-in steam generator/cart and trolley load
	MAST-V-800SD-B-N				1900	54		Double door/built-in steam generator/cart and trolley load

MAST-H Steam Sterilizer

Product introduction

MAST-H is one of the new breed of state of the art steam sterilizer with large size capacity while offering automatic horizontal sliding door, intelligent control, reliable operation and easy maintenance, which is suitable for the high level customer with large scales. It is developed according to the latest requirements of medical institution and CSSD. MAST-H sterilizer can be widely used in biological engineering, health care, animal laboratory, pharmaceutical industry for the sterilization of biological products, containers, sterile clothing, medical equipment, medical dressings and other items.

The design of chamber accords with state GB1502011, GB8599-2008, FDA and European EN285 ,EC\97\23 standard.



Product features

- Automatic horizontal sliding door**
 The doors are automatic horizontal sliding, driven by electric motor and belt, which realizes intelligent control, reliable operation and easy maintenance. The door operation is carried out on touch screen ensures operators no need to touch the door any more.
- Superb chamber machining and welding process**
 The acid-proof stainless steel chamber and jacket are automatically robot-welded to guarantee long time and trouble-free operation.

- Nice chamber design**

Surface Smoothness, Ra≤0.5; No welding part or bolt in the chamber which effectively protects the items to be sterilized. Steam baffle plates are surrounded by silicon rubber protecting the chamber surface. Concave structure in middle chamber ensures the condensate water thoroughly drained and dried.

- Reliable and durable chamber**

Chamber is designed according to professional analytical method. High-emulation software ANSYS is used for chamber simulation. Design service life: 10 years (or 20000 times sterilization)

- Reasonable sealing structure**

Compact designed sealing groove, durable circular hollow silicon gasket, sealed by compressed air.

Precise pressure detecting and control

Intelligent pressure transmitters, Wika (Germany), ensure steam pressure detecting and control both in Chamber and jacket.

- Unique vacuum noise-reduction system**

LNS low-noise and water-saving vacuum system, effective reduced the noise during running.

- Humanized operation system**

Colorful touch screen on loading-side, 6 indicating lamps on unloading sides, which are concise, vivid and exactly showing sterilization running status and alarming information.

- Reasonable maintenance space**

MAST-H steam sterilizer is design with maintenance space, the access to the maintenance is available from the front side, no need the extra space. All the pipes, valves and components are designed and installed in single side, which is more convenience for repair and maintenance.

Model	Order Code	Volume	Chamber dimension (W×H×Dmm)	Overall dimension (W×H×Dmm)	Input power (kVA)	Power supply (V/Hz)	Remark
MAST-H	MAST-H-800S-B-N	800L	660×1080×1274	1780×1900×1774	4	AV 380V, 50Hz	Double door/external steam supply/cart and trolley load
	MAST-H-1000S-B-N	1000L	660×1080×1500	1780×1900×2000	4		Double door/external steam supply/cart and trolley load
	MAST-H-1200S-B-N	1200L	680×1180×1500	1900×1900×2000	5		Double door/external steam supply/cart and trolley load
	MAST-H-1500S-B-N	1500L	680×1180×1870	1900×1900×2360	5		Double door/external steam supply/cart and trolley load

MAST-C Steam Sterilizer

Product introduction

MAST-C series is one of the economic sterilizers which are suitable for smaller hospital and medical centers. It is researched according to the latest requirements of medical institution and CSSD.

Product features

- Low working noise, high vacuum limit.
Equipped with water saving without pressure cooling system. The draining water temperature blow 65℃ during normal working process.
- Equipped with professional and systematized sterilizing programs of fabric, instrument, rubber, liquid, cavity, testing and auxiliary programs of BD, PCD and leakage.
- Temperature, pressure, time, running status, failure warning liquid-crystal display.
- Intelligentized drying system to guarantee the residual humidity of instrument and dressing no more than 0.2% and 1% respectively.
- Build-in efficient steam generator, microcomputer temperature control, time and energy saving.
- Equipped with printer to print date, time and process parameters
- Over-heat auto protection device, dual door safety lock device, overpressure relief valve, short-circuit protection, and overpressure protection.
- Perfect four-level authority management system to avoid mis-operation.



Technical parameter

Design pressure: -0.1/0.25MPa Temperature display accuracy: 0.1℃
 Vacuum lower limit:-0.08MPa Pressure display accuracy: 1 KPa
 Sterilization workingtemperature :115℃ -139℃ Chamber material: 304 Stainless steel

Model	Order Code	Volume	Chamber dimension(φ×L)	Overall dimension	Net weight	Power supply	Input power
MAST-C	MAST-C-100	100L	400×850mm	1250×730×1660mm	260kg	AC 380V, 50Hz	11kVA
MAST-C	MAST-C-135	135L	500×710mm	1110×750×1712mm	360kg	AC 380V, 50Hz	13 kVA
MAST-C	MAST-C-185	185L	500×950mm	1350×750×1712mm	470kg	AC 380V, 50Hz	13 kVA
MAST-C	MAST-C-300	300L	632×1000mm	1415×890×1780mm	710kg	AC 380V, 50Hz	20 kVA

XG1.U Steam Sterilizer

Product introduction

It can be widely used in department of stomatology and ophthalmology, operating room and other medical institutions. It is suitable for all wrapped or unwrapped solid instruments, A-class cavity instrument (dental hand-pieces and endoscopes), implantable instruments, dressing fabric and rubber tubes, etc.

Product features

- Equipped with professional and systematized sterilizing programs of fabric, instrument, rubber, liquid, cavity, testing and auxiliary programs of BD, PCD and leakage.
- Temperature, pressure, time, running status, failure warning liquid-crystal display.
- Intelligentized drying system to guarantee the residual humidity of instrument and dressing no more than 0.2% and 1% respectively.
- Build-in efficient steam generator, microcomputer temperature control, time and energy saving.
- Equipped with printer to print date, time and process parameters.
- Over-heat auto protection device, dual door safety lock device, overpressure relief valve, short-circuit protection, and overpressure protection.
- Perfect four-level authority management system to avoid misoperation.



Technical parameters

Design pressure: -0.1/0.25MPa Accuracy of temperature display: 0.1℃
 Maximum working pressure: 0.23MPa Accuracy of pressure display: 1KPa
 Vacuum limit: -0.080MPa Chamber material: 304 stainless steel
 Sterilizing temperature: 105~136℃

Model	Order Code	Volume	Chamber dimension(φ×L)	Overall dimension(L×W×H)	Net weight	Power supply	Input power
XG1.U	XG1.UCD-100M	100L	400×850mm	1250×730×1660mm	260kg	AC 380V, 50Hz	11Kw
XG1.U	XG1.UCD-135M	135L	500×710mm	1110×750×1742mm	400kg	AC 380V, 50Hz	11Kw
XG1.U	XG1.UCD-185M	185L	500×950mm	1350×750×1742mm	460kg	AC 380V, 50Hz	11Kw
XG1.U	XG1.UCD-300M	300L	632×1000mm	1400×890×1780mm	750kg	AC 380V, 50Hz	17Kw

XG1.C Steam Sterilizer

Product introduction

It is applicable for the sterilization of unpacked solid instrument in department of stomatology, ophthalmology, operation room and CSSD.

Product features

- Touch screen display of temperature, pressure, time, running status and failure warning.
- Equipped with professional and systematized sterilizing programs of fabric, instrument, rubber and liquid.
- The positive pressure air-discharging system will effectively discharge the cold air from chamber to improve steam saturability.
- Build-in efficient steam generator, microcomputer temperature control, time and energy saving.
- Equipped with post-drying function which makes the residual humidity of sterilized articles less than 3%.
- Equipped with printer to print date, time and process parameters.
- Over-heat auto protection device, dual door safety lock device, overpressure relief valve, short-circuit protection and overpressure protection.
- Perfect four-level authority management system to avoid misoperation.



Technical parameters

Design pressure: 0.25MPa

Maximum working pressure: 0.23MPa

Sterilizing temperature: 105~136 °C

Chamber material: 06Cr19Ni10 stainless steel (304)

Accuracy of temperature display: 0.1 °C

Accuracy of pressure display: 1Kpa

Model	Order Code	Volume	Chamber Dimension (Φ×L)	Overall Dimension (L×W×H)	Net weight	Power supply	Input power
XG1.C	XG1.CD-100M	100L	400×850mm	1250×730×1660mm	260kg	AC 380V, 50Hz	11Kw
XG1.C	XG1.CD-135M	135L	500×710mm	1110×750×1742mm	400kg	AC 380V, 50Hz	11Kw
XG1.C	XG1.CD-185M	185L	500×950mm	1350×750×1742mm	460kg	AC 380V, 50Hz	11Kw
XG1.C	XG1.CD-300M	300L	632×1000mm	1400×890×1780mm	750kg	AC 380V, 50Hz	17Kw

ZFQ Steam generator

Product features

- Small size, no pollution, reliable and easy to operate.
- Automatic water injection, automatic steam-generation, automatic water-lack protection and automatic excessive-pressure protection.
- Electric heating tube is made of jointless stainless steel, which has a long using life. Single tube and double tube can be changed to control the energy saving.
- Through the transparent water-level gauge, the water level in the generator can be displayed visually.
- Variety of heating power and steam production meet variety of requirements.
- Booster pump
- Stainless steel electric-heating tube
- Pressure controller
- Safety valve
- Liquid level meter



Booster pump

Stainless steel electric-heating tube

Pressure controller

Safety valve

Liquid level meter

Model	Order code	Max.steam production	Max.working temperature	Max.working pressure	Net weight	Overall dimension (WXHXDmm)	Input power (kVA)	Power supply (V/Hz)
MAST-H	ZFQ-T-40D	53kg/Hour	167 °C	0.65MPa	145kg	494X1550X796	40	AC380V, 50Hz
	ZFQ-T-60D	80kg/Hour	167 °C	0.65MPa	145kg	494X1550X796	60	

MOST-T tabletop steam sterilizer

Class B



Product Introduction

MOST-T series: T18/24/45/80 is a Class B tabletop sterilizer. As a type of high pressure sterilizer, it takes steam as its sterilization medium which is fast, safe and economic. They are common used in stomatological department, ophthalmological department, operating room and CSSD to make the sterilization for warped or unwrapped instrument, fabric, utensils, culture medium, unsealed liquid, etc. The design of chamber accords with state GB1502011, GB8599-2008, CE and EN285 standard.



18/ 24 / 45L



60/ 80L

Product features

Built-in open-type water tank

Water tank in open type makes it easy to be cleaned. It is available to continuously run with one time water filling, until getting the reminder of replacing the water. The water monitoring module in the tank ensures the enough water level and water quality, while offering the qualified steam to the chamber and keeps the cycle running stably.



Brand-new display interface

LCD screen can show temperature, pressure, time, running process, error and alarm information, etc. Sterilization information is more obvious and easier to observe the running state.



Multiple safety protection devices

Over temperature automatic protection device, multiple control and protection for steam generator, door safety interlock protection and dual chamber over-pressure protection, electronic circuit safety device.

Automatic door structure

T18/T24/T45 adopts automatic door structure, fast and simply operation, protecting the operators from scald. T60/T80 adopts multi-point synchronous linkage pressing technology, more reliable and durable.

Efficient vacuum

Efficient vacuum system, low working noisy, vacuum lower limit can reach over -90kPa, vacuum in high speed, perfect drying performance, thorough sterilization.

A variety of programs






Sterilization programs: Unwrapped, Wrapped, Rubber, User01, N-Quick, B-Quick, Prion
Test Programs: BD & Helix, Leak Test
Auxiliary Program: Preheat, Drying, Washing

Efficient Steam generator

T18/T24/T45 adopts built-in instant steam generator, T60/T80 adopts built-in energy-storage type steam generator producing steam in high speed and good quantity.

Other features

Pulse vacuum, heating, sterilization, exhausting, vacuum drying totally automatic.
Chamber is heating by film heater, saving energy and time.

Model	Order Code	Class type	Chamber dimension (φxL)mm	Overall dimension (LxWxH)mm	Power supply	Input power (kVA)	Temperature range	Net weight	Design pressure	Design temperature	Loading Tray
MOST-T	T18	Class B	250x350	560x530x450	AC 220V 50Hz	2.6	105-138℃	55Kg	-0.1/0.3Mpa	144℃	
MOST-T	T24	Class B	250x450	660x530x450	AC 220V 50Hz	2.6	105-138℃	65Kg	-0.1/0.3Mpa	144℃	
MOST-T	T45	Class B	316x618	830x640x550	AC 220V 50Hz	5.8	105-138℃	115Kg	-0.1/0.3Mpa	144℃	
MOST-T	T60	Class B	358x595	1002x730x560	AC 220V 50Hz	7.4	105-138℃	160Kg	-0.1/0.3Mpa	144℃	
MOST-T	T80	Class B	358x717	1002x730x560	AC 220V 50Hz	7.4	105-138℃	180Kg	-0.1/0.3Mpa	144℃	

MOST-T tabletop steam sterilizer

Class S

Product Introduction

MOST-T series: T24-S/45-S/80-S is a Class S tabletop sterilizer. As a type of high pressure sterilizer, it takes steam as its sterilization medium which is fast, safe and economic. They are common used in medical health care institution or R & D institution to make the sterilization for warped or unwrapped instrument, fabric, utensils, culture medium, unsealed liquid, etc. The design of chamber accords with state GB1502011, GB8599-2008, CE and EN285 standard.



18/ 24 / 45L

60/ 80L

Product features

Built-in open-type water tank

Water tank in open type makes it easy to be cleaned. It is available to continuously run with one time water filling, until getting the reminder of replacing the water. The water monitoring module in the tank ensures the enough water level and water quality, while offering the qualified steam to the chamber and keeps the cycle running stably.



Brand-new display interface

LCD screen can show temperature, pressure, time, running process, error and alarm information, etc. Sterilization information is more obvious and easier to observe the running state.



Multiple safety protection devices

Over temperature automatic protection device, multiple control and protection for steam generator, door safety interlock protection and dual chamber over-pressure protection, electronic circuit safety device.

Automatic door structure

T18-S/T45-S/T80-S adopts automatic door structure, operation fast and simply, protecting the operators from scald. T80-S adopts multi-point synchronous linkage pressing technology, more reliable and durable.

A variety of programs



Sterilization programs: Unwrapped, Wrapped, Rubber, User01, N-Quick
Auxiliary Program: Preheat, Washing

Efficient Steam generator

T24-S/T45-S adopts built-in instant steam generator, T80-S adopts built-in energy-storage type steam generator producing steam in high speed and good quantity.

Other features

Heating, sterilization, exhausting, drying totally automatic.
Chamber is heating by film heater, saving energy and time.

Model	Order Code	Class type	Chamber dimension(φxL)mm	Overall dimension(LxWxH)mm	Power supply	Net weight		Input power(KVA)	Temperature range	Chamber material	Design pressure	Design temperature	Loading Tray
MOST-T	T24-S	Class S	250×450	660×530×450	AC 220V 50Hz	65Kg		2.6	105-138℃	Stainless steel 304	-0.1/0.3Mpa	144℃	
MOST-T	T45-S	Class S	316×618	830×640×550	AC 220V 50Hz	115Kg		5.8	105-138℃	Stainless steel 304	-0.1/0.3Mpa	144℃	
MOST-T	T80-S	Class S	358×717	1002×730×560	AC 220V 50Hz	180Kg		7.4	105-138℃	Stainless steel 304	-0.1/0.3Mpa	144℃	

TMQ.C tabletop steam sterilizer

Class N

Product Introduction

TMQ.C series: TMQ.C-U23K is a Class N tabletop sterilizer. As a type of high pressure sterilizer, it takes steam as its sterilization medium which is safe and economic. They are common used in small medical health care institution or R & D institution to make the sterilization for the small package wrapped or unwrapped solid instrument, fabric, utensils, culture medium, unsealed liquid, etc. The design of chamber accords with state GB1502011, GB8599-2008, CE and EN285 standard.



Product features

- Manual water filling, exhaust and dry.
- Automatic heating, sterilization process.
- World famous brand pressure switch.
- Automatic pressure control.
- Steam and water inner circulation system, no need external water supply.
- High accuracy analogue pressure gauge.

Technical parameters

• Design pressure:	0.28MPa
• Design temperature:	150℃
• Maximum working pressure:	0.23MPa
• Temperature range:	105~134℃
• Accuracy of pressure control:	0.005MPa
• Chamber material:	06Cr19Ni10 Stainless steel

Safety devices

- Over temperature automatic protection device.
- Door safety interlock device.
- Safety valve for over pressure exhausting.
- Short-circuit protection and over pressure protection.
- Alarm buzzer for error reminder.

Installation conditions

- Working environment: clean, dry, shady and cool, ventilated, small temperature difference
- Room temperature 5℃—40℃
- Maximum relative humidity 85%。
- Allowable scope range of the fluctuation of voltage ±10%。
- Water requirement
- Water quality: Distilled water or pure water,
- Electro conductivity: ≤15μS/cm
- The content of bleach: ≤2mg/l
- PH value: 5—7
- Hardness: ≤0.02mmol/l
- Fill the distilled water into the clean water tank; the water should up to high water level.



Loading rack



Loading tray

Model	Volume	Chamber Dimension (Φ×L)	Overall Dimension (L×W×H)	Net Weight	Voltage	Power Frequency	Input Power
TMQ.C-U23K	23L	250×440mm	580×510×375mm	36kg	220v	50Hz	2.0Kw



Vertical steam sterilizer

LMQ.C vertical steam sterilizer Automatic model

Product Introduction

LMQ.C series is one of the vertical sterilizers. It takes steam as its sterilization medium which is safe and economic. They are common used in small hospital, clinic, health care institution, laboratory to make the sterilization for fabric, utensils, culture medium, unsealed liquid, rubber, etc. The design of chamber accords with state GB1502011, GB8599-2008, CE and EN285 standard.

Product features

- Microcomputer control technology, touch-key
- Display of dynamic sterilizing process graph, LED display of chamber temperature, time and fault code
- Equipped with sterilizing programs of unpacked instrument, instrument parcel, dressing, rubber and fluid medium
- Dynamic pulsed exhausting function, totally exhaust the cold air from chamber to guarantee steam saturation
- Chamber heating and heat-dry function effectively improve the drying result after sterilization
- Build-in water tank, steam and water inner circulation
- Over-heat auto protection device, door safety lock device, overpressure relief valve, short-circuit protection, overpressure protection and insulated door cover
- Optional printer

Design pressure: 0.28MPa
 Maximum working pressure: 0.23MPa
 Solution temperature: 60~100 °C
 Design temperature: 150 °C
 Temperature range: 105~136 °C

Insulation temperature: 40~60 °C
 Chamber material: 304 stainless steel
 Accuracy of temperature display: 0.1 °C
 Accessories: 2 stainless steel baskets



LMQ.C-50E / LMQ.C-80E



Technical parameters

Model	Order code	Volume	Chamber Dimension(Φ×L)	Overall Dimension (L×W×H)	Net Weight	Voltage	Power Frequency	Input Power
LMQ.C	LMQ.C-50E	50L	316×667mm	616×476×990mm	55kg	220V	50Hz	5kVA
LMQ.C	LMQ.C-80E	80L	386×695mm	688×546×1030mm	75kg	220V	50Hz	5.3kVA
LMQ.C	LMQ.C-100E	100L	386×860mm	688×546×1195mm	92kg	220V	50Hz	5.3kVA

LMQ.C vertical steam sterilizer Semi-automatic model

Product Introduction

LMQ.C series is one of the vertical sterilizers. It takes steam as its sterilization medium which is safe and economic. They are common used in small hospital, clinic, health care institution, laboratory to make the sterilization for fabric, utensils, culture medium, unsealed liquid, rubber, etc. The design of chamber accords with state GB1502011, GB8599-2008, CE and EN285 standard.

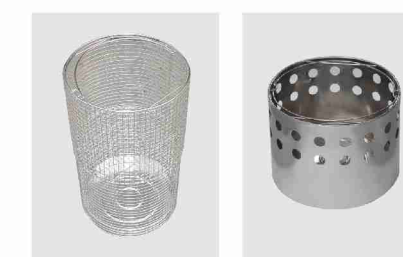
Product features

- Manual water injection, exhausting and drainage system
- Automatic control of heating and sterilizing process
- Manual dynamic pulsed exhausting function, totally exhaust the cold air from chamber to guarantee steam saturation
- Horizontal sliding door equipped with reliable self-rising sealing gasket, convenient operation
- Over-heat auto protection device, door safety lock device, overpressure relief valve, short-circuit protection, overpressure protection and insulated door cover

Design pressure: 0.28MPa
 Maximum working pressure: 0.23MPa
 Design temperature: 142 °C
 Temperature range: 105~136 °C
 Sterilization time: 0-60min
 Chamber material: 304 stainless steel
 Accuracy of temperature display: 0.1 °C
 Accessories: 2 stainless steel baskets



LMQ.C-50K / LMQ.C-80K



Technical parameters

Model	Order code	Volume	Chamber Dimension(Φ×L)	Overall Dimension (L×W×H)	Net Weight	Voltage	Power Frequency	Input Power
LMQ.C	LMQ.C-50K	50L	316×667mm	500×476×990mm	55kg	220V	50Hz	2.8kVA
LMQ.C	LMQ.C-80K	80L	386×695mm	570×546×1030mm	70kg	220V	50Hz	4.5kVA

H₂O₂ Low Temperature Plasma Sterilizer



PS-100X



PS-100XP



PS-200X



PS-40X



Product introduction

SHINVA Plasma sterilizer takes H₂O₂ as sterilizing agent and form plasmatic state of H₂O₂ by electromagnetic field under low temperature. It combines both gaseous and plasmatic H₂O₂ to make sterilization for the items in chamber and decomposes the residual H₂O₂ after sterilization.

It is widely used in CSSD or other medical institute for the sterilization of electric wire and cable, optical glasses and glass lens, power equipment and batteries, endoscopes, catheter, nonmetallic and other wet or heat sensitive instruments.

Scope of application

The sterilizer is applicable to sterilize the medical instruments that are thermolabile or non-moisture-tight. It is not applicable to the sterilization of liquid, powder or cotton fabrics. All the medical instruments that meet the following conditions can be processed by this sterilizer.

PS-100:

- Metal tubular instrument: inner diameter≥1mm; length≤500mm
- Nonmetal tubular instrument: inner diameter≥1mm; length≤2000mm

PS-200:

- Metal tubular instrument: inner diameter≥0.8mm; length≤300mm
- Nonmetal tubular instrument: inner diameter≥1mm; length≤1000mm

H₂O₂ Low Temperature Plasma Sterilizer

Product features

Low temperature sterilization

The sterilization temperature is 50±5℃ which is much lower than steam sterilization. It is dry sterilization that has no harm on instrument, so it extends the device service life.

Safe and environment friendly

The matter after sterilization is water and oxygen molecule that have no toxic harm to staff or patient, and there is no need for drainage or air exhausting. High efficient H₂O₂ filter is installed in the exhausting outlet to guarantee no H₂O₂ pollution to the environment.

Time-saving and cost-efficient

Rectangular chamber has greater capacity, high efficiency and short sterilizing cycle (≤50mins). The sterilized articles can be used directly without extra processing. It can increase the instrument turnover and decrease the storage of precious instrument to cut cost indirectly.

Convenient

Only power supply is needed for installation. The system adopts man-machine control interface with intelligent program design. Equipped with foot switch (alternative) and integrated biological incubator (alternative).

Multiple models

The door structure of the sterilizer is customizable (single or double door). To meet pharmaceutical factory needs, chamber material can be stainless steel.

Reliable sterilization

The chamber adopts alloy material which has good thermal conductivity to guarantee a stable temperature in the chamber. The purification system makes the H₂O₂ diffuses uniformly. The low temperature storage system provides a stable concentration of H₂O₂.

Safe sealing door

The sterilizer adopts mandril-driving auto overhead door with reliable sealing function and safe lock device to guarantee personal safety.

Data management

The 2048M storage (alternative) can store original data for inquiring. Mini printer can be used to print operation data timely. There are two types of record methods to guarantee the data is 100% acquirable.

Advanced configuration

The vacuum pump, controller, pressure transmitter and other key components are world famous brand. The sterilizer equipped with multiple programs and bar code identification system (alternative).

Reassuring

We provide comprehensive operation training materials to key components maintenance intelligent reminding system for your convenience.

Alternative configuration

USB flash disk storage

Timely sterilizing information storage to guarantee all data can be safely stored and traced during the sterilizer service life. This configuration can also be updated to traceability system.

Integrated biological incubator

The biological incubator will timely display temperature and incubate time. It equipped with independent control system that could work in the case of the sterilizer switched off.

Foot switch

Simply kick the switch to open or close the door.

Alloy storage rack

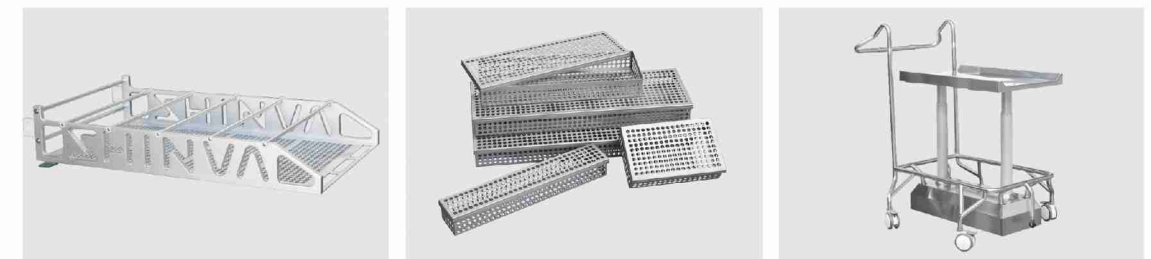
The alloy storage rack realizes that sterilized articles can be separately stored.

Metallic sterilizing container

To improve sterilizing result, we provide various sterilizing container for different kinds of instruments and operation kits.

Auto elevating trolley

The trolley equipped with auto elevating platform, chargeable lithium battery. The convenient memory function could record three different positions.



Auto elevating trolley

Order code	T-100	T-200
Overall dimensions(L×W×H)mm	1150×780×1165	1650×780×1165
Suitable sterilizer	PS-100	PS-200

Technical Parameters

Model	PS-40X	PS-100		PS-200	
Order code	PS-40X	PS-100X	PS-100XP	PS-200X	PS-200XP
Chamber dimensions (L×W×H)mm	650×380×260	750×450×400	750×450×400	1250×450×400	1250×450×400
Volume (L)	64	135		225	
Overall dimensions (L×W×H)mm	850×725×750	990×760×1600	990×760×1600	1460×760×1600	1460×760×1600
Weight (Kg)	200	400		500	
Power supply	220V 50Hz	380V 50Hz		380V 50Hz	
Power (Kw)	3.5	3.8		4.7	
Environment temperature	10~40				
Minimum installation room(L×W)mm	1500×900			2000×1200	
Minimum repair distance	1 meter for each side				

Consumable items



Biological indicator (self-contained)
Bacteria: Thermophilic fat bacillus
Quantum: 2~5×10⁶



Chemical indicator card



Microbicide
Name: hydrogen peroxide (H₂O₂)
Concentration: 60%
Specification: 12 capsules per cassette



Chemical indicator label



Paper-plastic wrapping bag
Size: wide: 75/100/150/250mm



Non-woven fabric
Size: 500×500mm, 800×800mm,
1200×1200mm

100% Ethylene Oxide Gas Sterilizer



XG2.C-130 / XG2.C-220

Product introduction

XG2. C series sterilizer takes 100% ethylene oxide (EO) gas as sterilization medium. It is mainly used to make sterilization for precise medical instrument, optical instrument, and medical electronic instrument, plastic and medical materials that cannot bear with high temperature and wet sterilization.

EO gas is one of the most efficient low temperature sterilization agents. It has advantage of wide-pedigree bacterium killing range, strong penetrability, no damage and pollution, easy and reliable chemical and biological monitoring method.

Product features

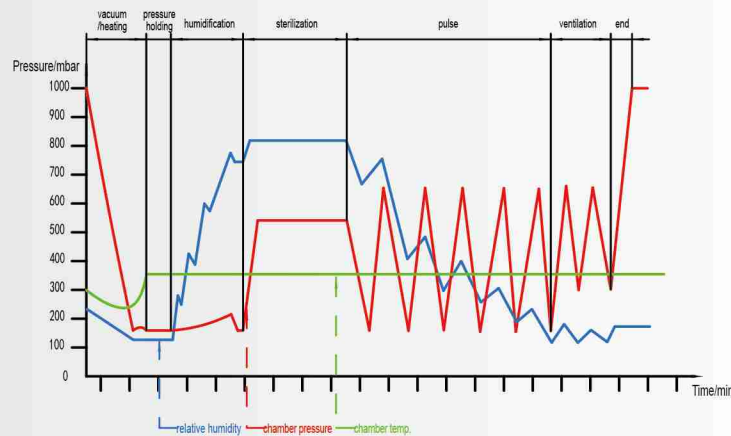
- **Negative pressure in whole cycle**
Chamber pressure is always negative in whole cycle ensures EO gas no leakage to outside during working.
- **Safety EO gas puncture device**
EO gas can automatically punctured by special device in the chamber, no need human intervention.
- **Chamber pressure real-time monitoring function:**
Any pressure abnormal in the chamber will cause the machine alarm.
- **Efficient ventilation system**
Automatic pulse Vacuum ventilation ensures EO gas exhaust thoroughly.
- **Door interlock**
The door cannot be opened while program is running.
- **EO gas concentration monitor (optional)**
Accuracy: 0.1PPM, portable design.

100% Ethylene Oxide Gas Sterilizer

- Accurate parameter control**
 Sterilization temperature, humidity, pressure and time data are collected by relative sensor and transferred to PLC.
- Perfect chamber temperature conducting**
 Chamber is made of aluminum alloy which has good thermal conductivity makes chamber temperature conducting fast and uniformity.
- Dual sterilization temperature choices**
 High temperature 55°C, Low temperature 37°C.
- Humidify control system**
 Humidity sensor in high accuracy ensures chamber humidity keep in stable level.
- Power off memory function**
 Once power off, the sterilization data will be saved automatically and will automatically continue the sterilization when power on.



Sterilization process



Technical parameters

Model	XG2.C	XG2.C
Order code	XG2.C-130	XG2.C-220
Chamber dimension (L×W×H)mm	750×450×400	1250×450×400
Overall dimension	950×860×1730	1450×860×1730
Chamber volume L	135	225
Net weight Kg	300	400
Input power	3.5kVA, 220V,50Hz	4.5kVA,220V,50Hz

EO gas can		
Oder code	Z-100	V-170
Net weight	100g	170g
Suitable sterilizer	XG2.C-130	XG2.C-220
Sterilization concentration	735mg/L	750mg/L

Automatic lifting trolley		
Oder code	T-100	T-200
Loading platform dimension (L×W)mm	800×400	1300×400
Overall dimension(L×W×H)	1150×780×1165	1650×780×1165
Sterilization concentration	735mg/L	750mg/L
Lifting range	720-1220	720-1220
Max. load capacity Kg	100	150
Weight	55	70
Suitable sterilizer	XG2.C-130	XG2.C-220





Washer-disinfector Rapid-A-520

Product introduction

Rapid-A-520 automatic washer-disinfector is high efficient washing equipment that researched and developed according to hospital actual situation. It is widely used for washing and disinfection of surgical instruments, wares, medical trays and plates, anesthesia instruments and corrugated hose in hospital CSSD or operating room. The greatest advantage of the equipment is labor-saving with fast washing speed which could shorten 1/3 operation time than ever.



Rapid-A-520

Product features

- Superb chamber design and process**

The conical chamber in SUS316L is stretch forming at one time without dead corner and welding joint, which is better for smoothly draining and water saving.

- Intelligent control system**

Double sides automatic vertical sliding doors, controlled by touch screen, which is convenient and safety. Cycle process is intelligent controlled by PLC, no need labor control. All the temperature, pressure, time, process stages, alarm can be shown on the touch screen and also be recorded by the built-in printers.

- A variety of programs**

11 preset programs and 21 user-defined programs which can be defined according to user requirements

- Easy loading and unloading**

Manual or automatic systems for loading and unloading are available. Washing rack, transfer trolley and convey system, fit in with the design of ergonomics, easy to operate and placement.

- Energy saving**

Washing chamber with nice water saving structure; Pre-heat water tanks and special designed rising and heating system and pipeline layout make it save 30% water and energy consumption than ever.

- Fast and high efficiency**

Rapid-A-520 is one of the fastest washer-disinfector in the world, which the standard cycle time is reduced to 28mins, including pre-washing, washing, 1st rising, 2nd rising, disinfection and drying. Meanwhile it can process 15 DIN trays per cycle.

Water preheat system reduced the preparation time, there is no waiting time during the cycle running.



Technical parameter for Rapid-A-520

Dimension	Chamber dimension/capacity (L×W×H)mm/L		Overall dimension (L×W×H)mm		Washing rack dimension (L×W×H)mm		Transfer trolley dimension (L×W×H)mm		Net weight (Kg)	Running weight (Kg)
		800×696×1115/520		1000×1270×1870		794×652×630		880×710×985		500Kg
Parameter	Disinfection temperature	Wash temperature	Disinfection time		Cycle time (Stand program)		Drying temperature		Standard drying time	
	80℃~93℃	45℃	0~999s		28min		70~120℃		10min	
Max. loading capacity	Standard DIN tray		Middle dressing bowl(16cm)		Middle kidney basin		Anesthesia / Respiration tubes		All capacity	
	15pieces(480×250×50)		168 Pieces (specified rack)		144pieces(specified rack)		4-6		520L	
Energy supply	Saturated steam		RO water		Compressed air		Control power		Driving power	
	Pressure MPa	Flow	Pressure MPa	Flow	Pressure MPa	Flow	Voltage /Frequency	Power	Voltage /Frequency	Power
	0.3~0.5	50Kg/h	0.2~0.5	2000Kg/h	0.4~0.7	100L/min	220/50HZ	0.5KW	380/50HZ	16.5KW
Energy consumption (Standard program)	Saturated steam		Water	Washing detergent		Anti-rust lubricating agent		Power		
	7.8Kg/Cycle		100L/Cycle	25000ml ×concentration ratio		25000ml ×concentration ratio		2.8KWh		

Washer-disinfector Rapid-M-320

Product introduction

Rapid-M-320 is an economic manual door washer-disinfector that researched and developed according to requirements of smaller hospitals or institution. Its function and washing effective is equal with Rapid-A-520. It is also can be used for disinfection of surgical instruments, wares, medical trays and plates, anesthesia instruments and corrugated hoses in hospital CSSD or operating room.



Product features

Door structure

Rapid-M-320 adopts double pull-down door structure. After opening the door, it can be regarded as a working platform for loading the washing rack and items. The double doors are interlocked and have self-lock function.

Strong glass window

Three layers tempered glass window with excellent sealing ensures the security, insulation and easily observing during washing process.

Operation System

LCD display screen can shows all the temperature, pressure, time, process stage and parameters. Easily operation by touch button on the panel.

SIEMENS PLC ensures the machine intelligent running and control. Built-in printer can automatically record the temperature, pressure, time, graph and A0 value.

A variety of programs

11 preset programs and 15 user-defined programs which can be edited according to user equipments

Outstanding loading capacity

12 DIN trays per cycle in four layers.

Technical parameter for Rapid-M-320

Dimension	Chamber dimension/capacity (L×W×H)mm/L		Overall dimension (L×W×H)mm		Washing rack dimension (L×W×H)mm		Net weight (Kg)	Running weight (Kg)	
		601×592×996/320		760×710×1930		590×558×630		300Kg	350Kg
Parameter	Disinfection temperature	Wash temperature	Disinfection time		Cycle time		Drying temperature	Standard drying time	
	80 C~93 C	45 C	0~99mins		Electric heated 42 min Steam heated 36 min		70~110 C	15	
Max. loading capacity	Standard DIN tray		Middle dressing bowl(16cm)		Middle kidney basin		All capacity		
	10 (480×250×50mm)		36 Pieces		48 Pieces		320L		
Energy supply	RO water		Driving power Electric heated		Driving power (steam heated)		Saturated steam		
	Pressure MPa	Flow	Voltage /Frequency	Input power	Voltage / Frequency	Power	Pressure MPa	Flow	
	0.2~0.5	1000Kg/h	380/50HZ	22.5KW	380/50Hz	9KW	0.3~0.5	1000Kg/h	
Energy consumption (Standard program)	Saturated steam Kg/cycle		RO water Kg/cycle		Washing detergent		Anti-rust lubricating agent	Power (Electric heated)	Power (Steam heated)
	10		100		25000ml ×concentration ratio		25000ml ×concentration ratio	10.5KWh	4.5Kwh

Tunnel washer-disinfector DC series



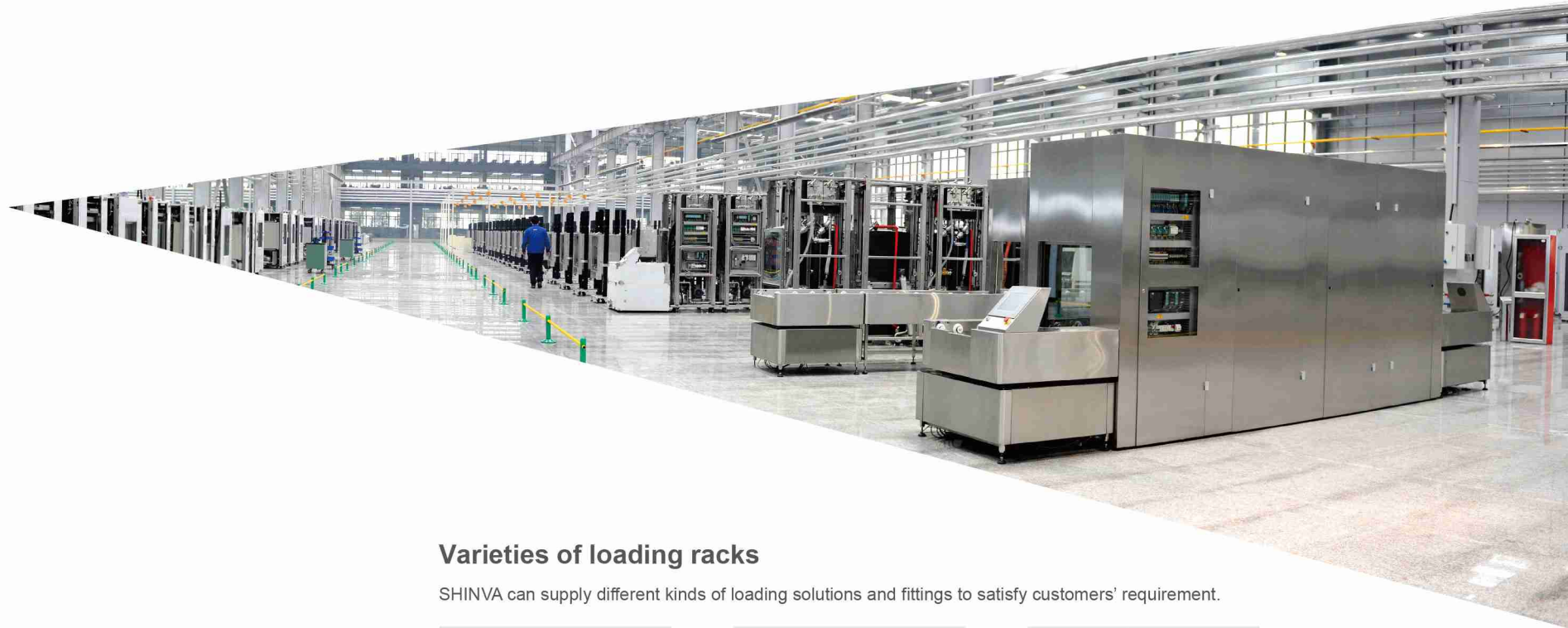
Product introduction

Tunnel washer-disinfector is internationally-advanced product which is researched aim at middle and large-scale hospitals. It has advantages of reliable quality, high work load and high efficiency and can be widely used for hospital reusable articles such as operating instrument, minimally invasive instrument, corrugated and anesthesia hose, glass ware, dental handpiece, baby product and general medical instrument. It is also applicable for hospital CSSD.

Modular design, compact structure, reliable performance, convenient installation It adopts modular design and provides multiple combinations to meet customer requirements.

The wide of the washer-disinfector is only 1200mm which provides convenient installation and furthest reduces the expenses and time of installation.

Tunnel washer-disinfector DC series



Product features

- More efficient**
 Advanced design concept which makes the running speed 30% faster than traditional products.
- Lager capacity**
 The lager capacity which can afford 15 DIN trays one time gives it 50% more than traditional products.
- Better washing result**
 Well-designed spray arm with flexible rotary system and perfect connection between washing rack and chamber provide a better washing result than traditional products.
- Easy-to-use**
 To operate this washer-disinfector, simply touch the 10.6 inches touch-screen.
- Energy saving**
 New-designed pipeline system and dead-zone free structure save 25% water.
- Reliable and sanitary inner-chamber delivery system**
 The chamber equipped with stainless steel wheels which are dead-zone free. All transfer executive components are installed out of chamber to protect the instrument from secondary contamination.
- Better compatibility**
 The washing racks can also work with Shinva Rapid-A-520 or Super6000 washer-disinfector.
- Humanized window design and good maintainability**
 The chamber adopts glass-faced sealing door and large-sized window on side of it. For maintenance purpose, all pipelines are fixed on one side of the washer-disinfector with open type door.
- High-efficient hot-wind drying system**
 Two-stage drying system with sieve-style air inlet dramatically improves drying result and efficiency. It also solves the drying problems caused by temperature changes.
- Diversified carrying system**
 For your convenience, we offer manual carry-trolley and auto washing rack carrying system to increase efficiency and reduce labor intensity.

Technical parameters

Overall dimension (L×W×H)	Double-chamber: 1940×1165×2280 Triple-chamber: 2886×1165×2280 Four-chamber: 3980×1165×2280
Single chamber net weight	500Kg
Structure type	Vertical
Heating type	Water: steam-heating; Air: steam-heating and electric heating
Water consumption	28L/step/chamber
Water outlet	2" internal thread
Air outlet	φ63.5mm/drying chamberφ125mm
Water temperature	93℃

Water quality

Softened water	4-7°d
Pure water	Conductivity≤15μs (25℃)
1°d=10mg/CaO=17.8mg/L CaCO3 Washing/rinse water: softened or pure water. Final rinse and disinfection water must be pure water.	

Working conditions

Water supply (softened/pure water) connector	1/2"
Water supply pressure	0.2~0.5Mpa
Water flow	60L/min
Steam pressure	0.3~0.5Mpa

Power supply

Double-chamber	380VAC,50Hz,17kVA
Triple-chamber	380VAC,50Hz, 20kVA
Four-chamber	380VAC,50Hz,25kVA

Working condition

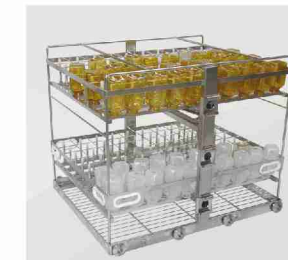
Temperature	5~40℃
Relative humidity	No more than 80% in 20℃

Varieties of loading racks

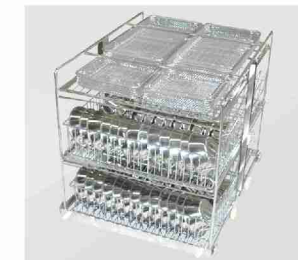
SHINVA can supply different kinds of loading solutions and fittings to satisfy customers' requirement.



Four/Five-level wash racks
They are mainly used in surgical instruments putting in DIN trays. Remarks: Wash racks are not recommended to load bowls and kidney trays.



Humidifying bottles racks
Mainly used for cleaning humidifying bottles, also can be used to clean suitable sized test tubes, beakers, measuring cylinder utensils and vessels.



Racks for bowls and kidney trays
It is used to clean bowls and kidney trays



Anaesthesia/ Respiration tubes racks
It is used to clean anaesthesia /respiration tubes or vell

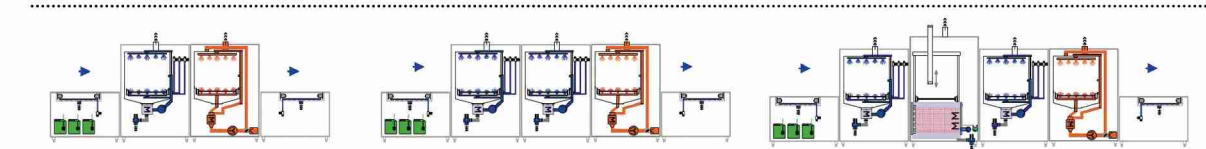


Glassware wash racks
It is used to clean glassware. Remarks: Due to a wide range of glassware, we need users offer the size.



SHINVA will supply professional trolleys fitted with the equipment for wash racks transportation, and also ancillary equipment such as storage tables and transfer orbit, so that our equipment will be more in line with the humanism and ergonomic requirements.

Multi-combination of washing programs



Double-chamber

Chamber 1: prewashing, washing, rinse and disinfection
Chamber 2: drying

Triple-chamber

Chamber1: prewashing and washing
Chamber2: rinse and disinfection
Chamber3: drying

Four-chamber

Chamber1: prewashing and washing
Chamber2: ultrasonic washing
Chamber3: prewashing and disinfection
Chamber4: drying

Ultrasonic washer QX series

Product introduction

QX series ultrasonic washer is essential washing machine in CSSD, operating room and laboratory.

SHINVA provides integrated ultrasonic washer solutions, including preliminary washing, secondary washing and deep washing with different frequency. Users can also choose the ultrasonic washing auxiliary machine for flushing and drying. The machine consists of washing tank, ultrasonic generator, ultrasonic transducer, heating tube, temperature transmitter, and water level transmitter, draining pump, basket and pipeline. It uses high frequency oscillation signal, which sent out by ultrasonic generator, and converts to high frequency mechanical oscillation signal and diffuses into the cleaning solution. The ultrasonic spreads forward in the cleaning solution to generate millions of tiny bubbles. During the process called 'Cavitation' the bubbles implode immediately to generate high pressure and impacts the articles to spall the fouling adhered on the surface and gap of the articles to achieve cleaning purpose.



Product features

- Excellent washing effect and high washing accuracy that could clean those instruments with uneven surface or tiny gap.
- High washing speed improves working efficiency. It protects the instrument from contamination caused by hand contact.
- The tank and outer cover adopt high quality stainless steel which is durable and easy to clean.
- All tanks are auto water-injecting which injects water to certain water level.
- All tanks are equipped with reliable LCD monitor that could be controlled independently.
- It can be equipped with extended-function tank: flushing tank, drying tank.

Flushing tank: High pressure water flushing after ultrasonic washing. It is equipped powerful circulating pump and specialized nozzle to flush, rinse, disinfect and lubricating on instrument.

Drying tank: Used to dry the instrument after washing; the high quality heater and efficient fan ensures the thoroughly dry.



Ultrasonic washer

Flushing tank

Drying tank

Automatic lifting ultrasonic washer

QX2000-A ultrasonic washer equipped with lift system that can lift the top lid and baskets automatically after washing which decreases the labor intensity.



Technical parameters

Model	QX2000					QX1500		
	QX2000	QX2000-C	QX2000-G	QX2000-D	QX2000-S	QX1500	QX1500-D	QX1500-S
Order code	QX2000	QX2000-C	QX2000-G	QX2000-D	QX2000-S	QX1500	QX1500-D	QX1500-S
Chamber dimension (LxWxH) mm	600x420x330					700x300x310		
Overall dimension (LxWxH)mm	800x640x830					900x520x830		
Water consumption L	65	20x3		65	65	48	48	48
Max. Input power(kVA)	11.5	11.5	3	11.5	11.5	11.5	11.5	11.5
Ultrasonic power(kVA)	2			2	2	2	2	2
Function	Ultrasonic washing	Flush washing /lubricating /disinfection	Drying	Ultrasonic washing	Ultrasonic washing	Ultrasonic washing		
Frequency(kHz)	40			40/100	40/80/100	40	40/100	40/80/100
Remark	Single frequency			Double frequency	Triple frequency	Single frequency	Double frequency	Triple frequency

Technical parameters for Automatic lifting ultrasonic washer

Model	QX2000		
	QX2000-A	QX2000-DA	QX2000-SA
Order code	QX2000-A	QX2000-DA	QX2000-SA
Chamber dimension (LxWxH) mm	600x420x330		
Overall dimension (LxWxH)mm	800x640x830		
Water consumption L	65		
Max. Input power(kVA)	11.5		
Ultrasonic power(kVA)	2		
Function	Ultrasonic washing		
Frequency(kHz)	40	40/100	40/80/100
Remark	Single frequency	Double frequency	Triple frequency

Mini ultrasonic washer

Operating principle

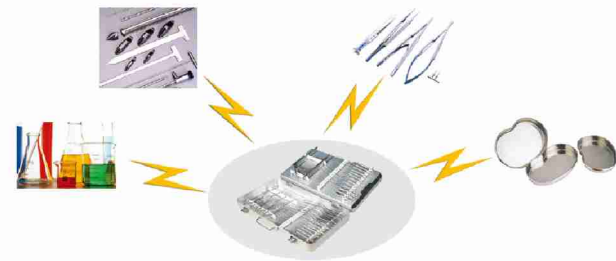
The mini ultrasonic washer uses high frequency oscillation signal, which sent out by ultrasonic generator, converts to high frequency mechanical oscillation signal and diffuses into the ultrasonic medium---cleaning solution. The ultrasonic spreads forward in the cleaning solution to generate millions of tiny bubbles. Those bubbles are generated in negative pressure zone of ultrasonic vertical transmission while rapidly implode in positive pressure zone. This process called 'Cavitation'.

During the bubble implosion, immediate high pressure is generated and impacts the articles to spall the fouling adhered on the surface and gap of the articles to achieve cleaning purpose.



Product features

- Multiple functions: continuous/timed rinsing, simulated/digital/textual control operation
- Multiple models: various models are available
- Power voltage: 220v
- Power frequency: 40 KHz, 40/80 KHz (dual-frequency)
- High quality: portable, fashionable and professional design with high reliability



Application scope

- It is used for haemostatic forceps, tweezers, incision knife, dental cast, artificial tooth, syringe needle, test tube, glass tube, dressing bowl, dishes and cylinders in department of stomatology, ophthalmology and laboratory. For those instruments with blind hole and concave or convex slot, it has excellent effect.



Quality guarantee

- Simulated or digital control; Adjustable temperature and ultrasonic time, convenient operation



- Powerful transducer device, accurate transmitter and safe circuit
- The outer cover, inner groove, basket and noise enclosure adopt high quality stainless steel material; The inner tank has no welding joint and good waterproof



Order Code	Volume (L)	Inner Tank Dimension (L×W×D)mm	Overall Dimension (L×W×D)mm	Ultrasonic Power(W)	Heating Power(W)	Ultrasonic Frequency (KHz)	Control Type	Note
TQX-50BH	5	240×142×148	330×175×310	100	200	40	Auto, digital display	Single frequency
TQX-100AH	11	300×240×150	330×270×310	200	500	40	Manual, knob operation	Single frequency
TQX-150AH	15	330×300×150	360×330×310	300	500	40	Manual, knob operation	Single frequency
TQX-200BH	22	495×295×150	550×330×310	400	500	40	Auto, digital display	Single frequency
TQX-300BH	29	495×295×200	550×330×360	600	500	40	Auto, digital display	Single frequency
TQX-300DH	29	495×295×200	550×330×360	600	500	40/80	Auto, text display	Dual frequency

Quick-A Bedpan washer-disinfector

Product introduction

Quick-A series bedpan washer is a kind of flushing and disinfecting machine for urinal, urine cup, bedpan and spittoon or other human waste containers. It is common used in hospital washing and disinfection room of inpatient area.



Product features

- Mainly used to wash human waste containers
- Automatic revolving door, with automatic dump function and peculiar smell prevention function.
- Mould stretch forming chamber, no washing dead angle
- Thermal disinfection technology with varieties of washing programs
- Fast, complete the whole washing and disinfection cycles in 4~10 mins.
- Optional for chemical disinfection function and washing detergent automatic injection function
- With online blocking testing function
- Comply with the ISO15883 and YY/T 0734.3-2009 standard

Built-in program

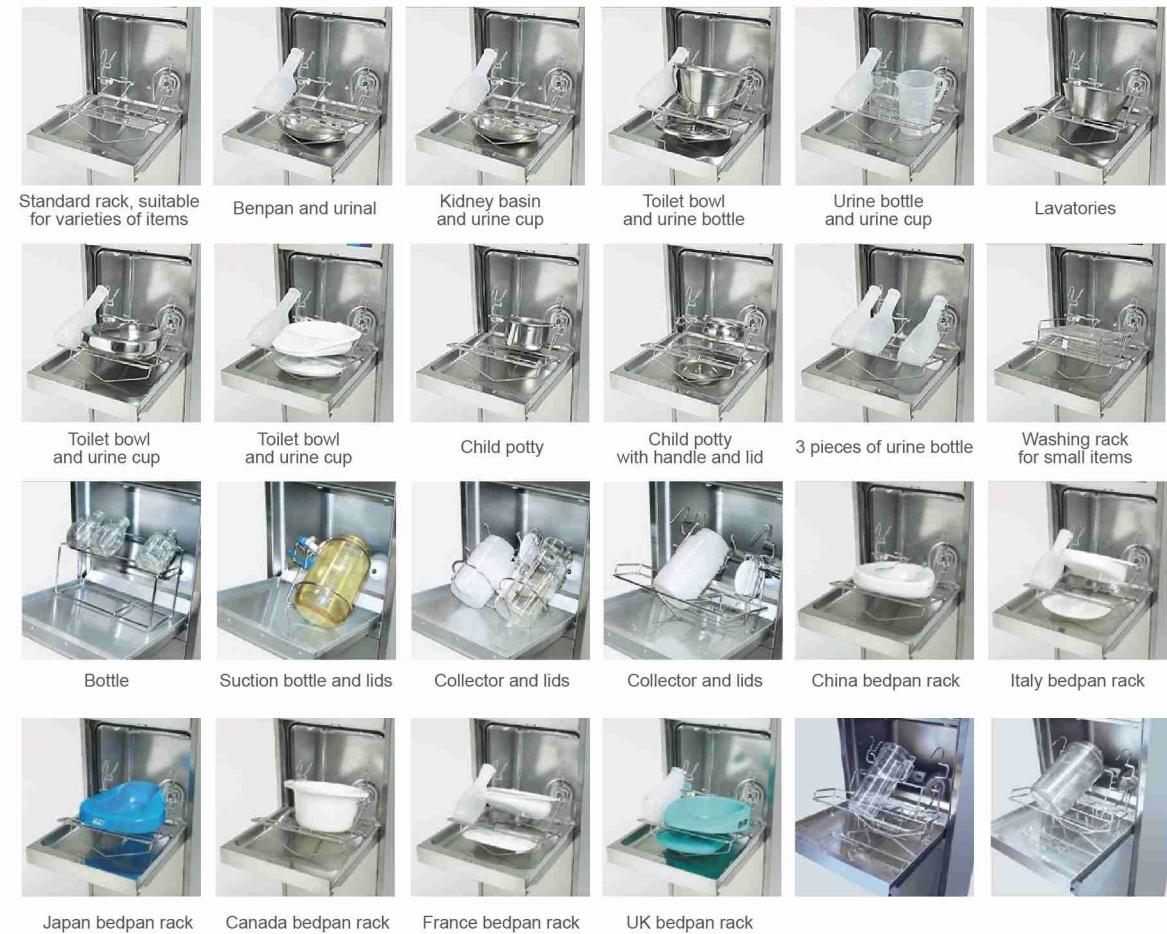
3 built-in programs: P1 Light washing, P2 Medium washing, P3 Heavy washing

Program process

P1 Light washing: Flush-Wash-Flush-Disinfection-Cool

P2 Medium washing: Flush-Wash-Wash-Flush-Flush-Disinfection-Cool

P3 Heavy washing: Flush-Wash-Wash-Wash-Flush-Flush-Disinfection-Cool



Quick-A-60/80 Technical Specification

Dimension	Washing Chamber Dimension (L×W×H)mm		Overall Dimension(L×W×H)mm		N.G. (Kg)	Running Weight (Kg)
	60	370× 461 ×300	60	476× 540 ×1574		
Performance	Disinfection Temp.	Washing Temp.	Disinfection Time		Running Time (Instrument Cycle)	
		80-100 °C	45-55 °C	0-99 Min(Adjustable)		4-10Min
Biggest Load	Bedpan		Man Urinal	Woman Urinal	Volume	
	60	1 Bedpan	3 Units (Medium)	3 Units (Medium)	60L	
	80	1 Bedpan + 2 Urinals	4 Units (Medium)	4 Units (Medium)	80L	
Requirement	Softened Water or Hard Water		Power			
	Pressure	Flow	Voltage/Frequency		Power	
	0.5-0.5MPa	1000Kg/H	220V/50Hz		3kVA	
Consumption	Softened Water or Hard Water		Washing Detergent	Disinfection Detergent	Electricity	
	40L/Cycle (Instrument Cycle)		20L×Concentration Ratio	10L×Concentration Ratio	1 kwh	
Contactor Dimension and Exhaust Quantity	Water Inlet	Outfall	Air Exhaust Port			
	1/2 Inch	φ110 mm	φ30 mm			

Medical Drying Cabinet



YGZ-1600 series

YGZ-1600 series drying cabinet is kind of large capacity medical drying equipment designed according to the requirement of market to fulfill dry treatment of surgical instruments, glassware and respiratory therapeutic items. Easy to operate, the setup scope of drying temperature and time is 40℃~90℃ and 0s~30000s respectively. It is user custom, which can be set up freely. Two models of single-door and double-door are available.

To solve the problems that those like products are mainly used for drying catheter and poor drying effect, we change the structure of air intake system. This series drying cabinet adopts independent drying programs that could work not only for drying catheter but also other instruments. It is drying equipment with high performance price ratio.

Application

Hospital CSSD, operating room and other departments in which items need to get dried.

Capacity

It can handle 9 DIN standard surgical instruments trays and 36 pieces of anesthesia or respiration hoses.

Control system

It equipped with reliable American Rabbit 2000 chip control system, LCD screen and 10 sets of programs. Parameters are convenient to adjust.

Materials

The chamber is of top-quality 304 stainless steel with a thermal insulation jacket to avoid heat lost. The door is designed like a glass window for monitoring the inside working.



YGZ-1600S



Accommodate 9 DIN standard instrument trays



Catheter and humidification bottle support

Standard configuration

Items	Quantity	Note
Main machine	1	304 stainless steel with double-glazing door
Rack	9	stainless steel
DIN standard instrument tray	9	stainless steel
Pipe support	2	stainless steel
Water collector	1	stainless steel

YGZ-1600X seires

YGZ-1600X series drying cabinet is kind of high performance-price ratio equipment developed according to the market demand. It has advantages of good appearance, multiple functions, and convenient operation. It can be widely used for drying of different kinds of articles in hospital CSSD and operating room.

- It can be used for surgical operating instrument, glass ware, stainless steel dish and bowl, breathing tube and humidification bottle. Drying temperature setting range: 40~90℃ (adjustable); Drying time setting range: 1~99min (adjustable).
- Structure: The chamber adopts 304 stainless steel wire drawing board; outer cover adopts 304 stainless steel with plastic spray; the door is equipped with glass visual window.
- Classification: Single-door and double-door.
- Control: Independent drying programs, LCD screen, 10 sets of default programs with adjustable parameters.
- Working ability: Large capacity that could handle 16 DIN standard instrument trays or 48 anesthesia/breathing tubes at same time.
- The water collector which is installed on the bottom of the equipment could discharge water without door opening.
- Multi-functional castors provide convenient transfer and equipment fixing.



YGZ-1600XS



Bottom water collector



16 DIN standard instrument tray



Catheter and humidification bottle rack



LCD screen and indicating lights

Standard configuration

Items	Quantity	Note
Main machine	1	304 stainless steel
Rack	8	stainless steel
DIN standard instrument tray	8	the quantity is customized
Pipe support	2	easy to use, multi-functional
Water collector	1	stainless steel

YGZ-1000 series

YGZ-1000 series drying cabinet is kind of small-size drying equipment developed according to the market demand. It is mainly used for drying of surgical operating instrument, stainless steel dish and bowl, glass ware and plastic items. Drying temperature setting range: 40~90℃ (adjustable); Drying time setting range: 0~9999s (adjustable). According to appearance and material, it can be divided into YGZ-1000 (all stainless steel) and YGZ-1000X (outer cover with plastic spray).

Application

Hospital CSSD, operating room and other departments in which items need to get dried.

Capacity

It can handle 10 DIN standard instrument trays or stainless steel dishes/bowls.

Control system

It equipped with reliable PLC which is assembled of American chip, 3 sets of default programs (A: operating instrument B: glass ware C: plastic article) and 2 sets of custom programs. The screen displays dynamic parameters timely which is intuitionistic and the parameters are adjustable. It is equipped with self-checking function.

Materials

The whole chamber adopts 304 stainless steel board and thermal insulation jacket to avoid heat lost;

The triple-glazing door is designed like a glass window for avoiding heat lost and monitoring the inside working.

The unique design of the rack structure is easy to pick and place.



water collector

10 DIN standard instrument trays

rack push-pull structure

Standard configuration

Items	Quantity	Note
Main machine	1	double-layer 304 stainless steel board, triple-glazing glass window
Rack	5	stainless steel, each layer bears 2 standard instrument tray
DIN standard instrument tray	10	stainless steel, for containing instrument
Water collector	1	stainless steel



YGZ-1000



YGZ-1000X

YGZ-500 Series

YGZ-500 series bench-top drying cabinet is kind of small-size drying equipment developed according to the market demand. It is mainly used for drying of surgical operating instrument, stainless steel dish and bowl, glass ware and plastic items. Drying temperature setting range: 40~90℃ (adjustable); Drying time setting range: 0~9999s (adjustable).



YGZ-500

Room-saving, convenient

It is a small-sized and time-saving drying cabinet which is applicable for operating room or works with low temperature sterilizer to improve the turnover of precision instrument.

Materials

◇ The whole chamber adopts 304 stainless steel board and thermal insulation jacket to avoid heat lost;

◇ The double-glazing door is designed like a glass window for avoiding heat lost and monitoring the inside working.

Application

◇ It is applicable for hospitals, health institutions, scientific research institutions and laboratories.

◇ It is the best choice for drying of glass ware or stainless steel operating instrument.

Standard configuration

Items	Quantity	Note
Machine	1	304 stainless steel chamber, double-glazing glass window
Rack	2	stainless steel
DIN standard instrument tray	2	stainless steel, for containing instrument
Water collector	1	stainless steel

Technical Parameter	Order Code				YGZ-1000(1000X)	YGZ-500
	YGZ-1600S	YGZ-1600D	YGZ-1600XS	YGZ-1600XD		
Overall size (W×H×D) mm	973×2200×630	973×2200×540	720×2230×750		705×1640×770	820×540×650
Chamber size (W×H×D)mm/Volume(L)	603×1602×373/360L		600×1602×510/500L		580×980×578/330L	550×450×330/80L
Net Weight	300Kg		280Kg		150Kg	50Kg
Door quantity	Double door	Single door	Double door	Single door	Single door	Single door
Structure	Vertical type					Tabletop type
Power supply	AC380V、50Hz		AC380V、50Hz		AC220V、50Hz	AC220V、50Hz
Environment temperature	5~40℃					
Relative humidity	20℃≤90%					
Power consumption	Thermal heater: 9kVA		Thermal heater: 8kVA		Thermal heater: 5.4kVA	Thermal heater: 2.5kVA
	Wind fan: 0.72kVA		Wind fan: 0.6kVA		Wind fan: 0.4kVA	Wind fan: 0.1kVA
	Rated power: 11kVA		Rated power: 9kVA		Rated power: 6.5kVA	Rated power: 3kVA