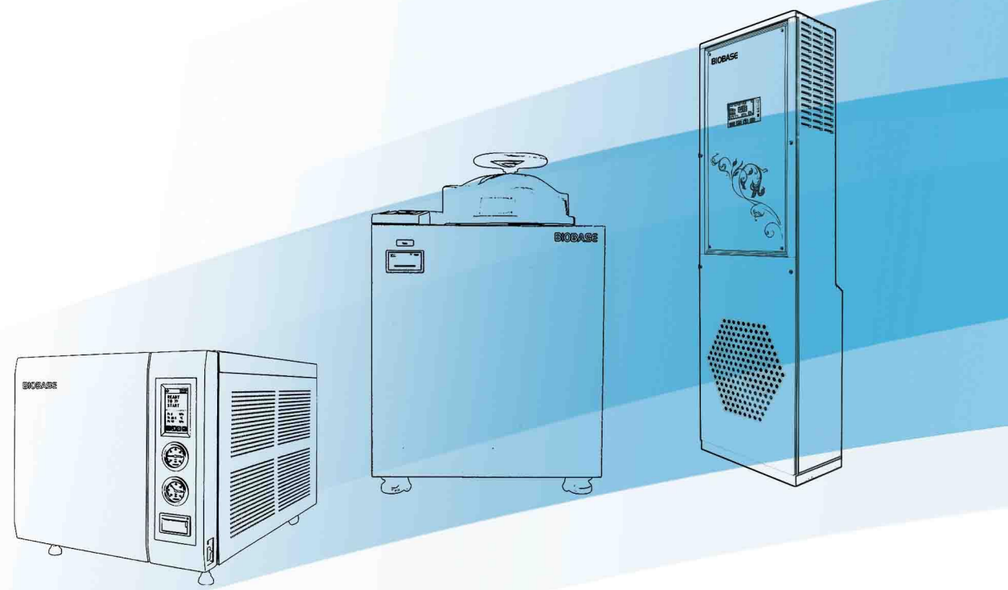
BAWERS
MEDICAL EQUIPMENT

World Trade Group

Disinfection & Sterilization Solution



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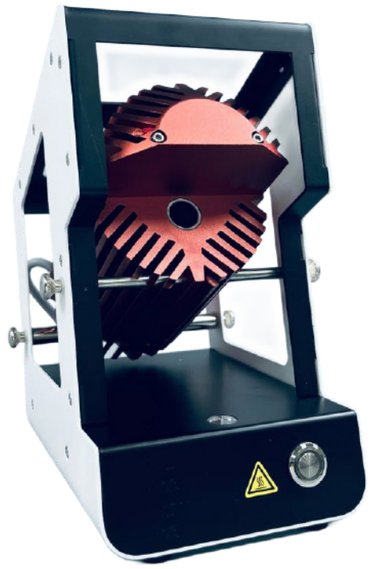
Infrared Sterilizer

CE



Advantage

1.No flammable gas, no naked flame.

2.Infrared Tungsten Halogen Lamp Sterilization,Sterilization temperature reach to 900-1300℃ in a few seconds, instantaneous heating, low energy consumption.

3.Infrared sensor control, automatically triggers the start,it can be operated with one hand.

4.Automatic termination after sterilization complete.

5.No preheating required, low cost of use.

6.Don't consume oxygen when working, it can be used for microbial experiments in anaerobic chambers.

Application

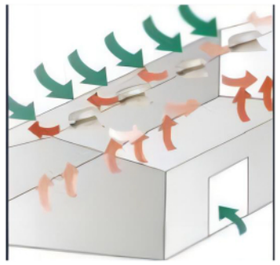
Dedicated to the rapid sterilization and disinfection of small metal instruments with high temperature resistance. Such as inoculation loops, inoculation needles, tweezers, small scissors, etc



Inoculation loop



Medical instrument



Ventilation environment



Anaerobic chamber

High Temperature Sterilization

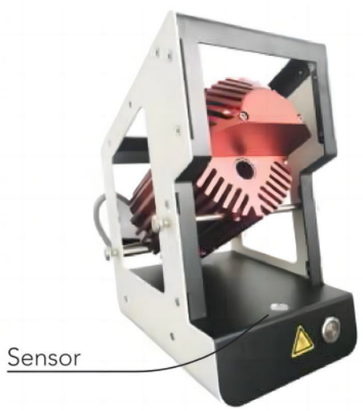
When the IR-950S infrared sterilizer is used with a standard power supply, the device can reach a safe operating temperature of 900-1300°C within seconds No warm-up time required. Infrared sensor control can be operated with one hand.

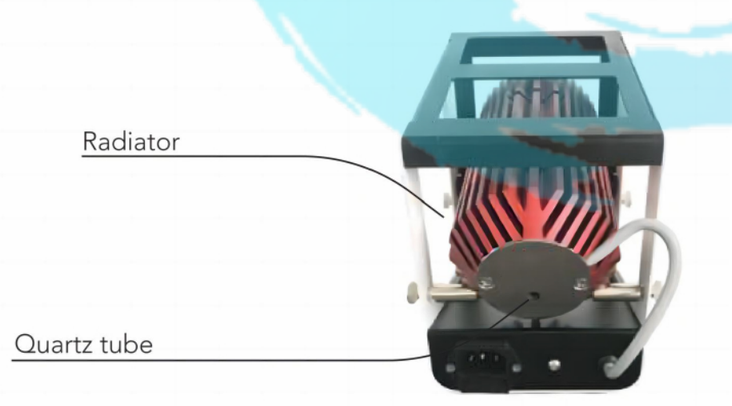
Infrared/Tungsten Halogen Lamp Sterilization

Sterilization temperature up to 1300°C,instantaneousheating,low energy consumption

Anaerobic environment/Microbial experiments

Do not consume oxygen when working, and can beused for microbialexperiments in anaerobic chambers





- ●Used for rapid sterilization of small metal tools such as inoculation loops and tweezers
- ●No flammable gas,no naked flame
- ●Especially suitable for use where naked flame are prohibited or where gas tanks are not suitable
- ●Can reach to 900-1300°C in a few seconds
- ●The infrared sensor can automatically triggers the start and can be operated with one hand
- ●Automatic termination after sterilization complete
- ●Use standard laboratory power
- ●No preheating required, low cost of use

Specification

Model	IR-950S
External Size (W*D*H)	160x140x220mm
Heat source	Infrared-Tungsten Halogen Lamp
Heat temperature	900~1300℃
Heat zone material	Quartz glass
Heating zone size	Φ15x100mm
Automatic sterilization shutdown time	7s
Infrared sensor	Yes
Power Supply	220~240V, 50/60Hz,110V,60Hz
Consumption	600W
Protection class	IP20
Permissible ambient temperature	5~40℃, 80%RH
Net Weight	2.7kg
Gross Weight	3.2kg
Shipping Size (W×D×H)	175x165x275mm

BAWERS
MEDICAL EQUIPMENT

Cassette Sterilizer



Description

Cassette sterilizers are commonly used in various medical and laboratory settings for the sterilization of medical instruments, equipment, and materials. They are designed to provide efficient and reliable sterilization by utilizing heat and pressure to eliminate bacteria, viruses, and other microorganisms. These sterilizers are widely employed in hospitals, dental clinics, research laboratories, and other healthcare facilities to ensure the safety and sterility of medical tools and equipment before their use in patient care or research procedures.

Advantage

●The sterilization effect is reliable and rapid, with a non-wrapped sterilization time of 6 minutes, making it suitable for small instruments in departments such as stomatology and ophthalmology.

●Easy operation with a display screen showing the system operation. Sterilization procedures can be safely interrupted at any time.

●Self-detection system automatically stops and displays an error code on the screen if a problem occurs during operation.

●Suitable for sterilizing instruments with cavities and solid instruments, offering the option for non-wrapped sterilization.

Specification

Model	ST-2000C	ST-5000C	ST-6000C
Sterilization Capacity	About 1.8 L	About 5.2 L	About 5.2 L
Tank Capacity	3.4 L	3.4 L	3.4 L
Maximum Operating Pressure	242 kPa		
Operating Pressure Range	42 kPa ~ 212kPa		
Maximum Operating Temperature	138° C		
Operating Temperature Range	115 ° C ~ 135 ° C		
Display accuracy	0.1℃		
Water	Ultra-pure water, deionized water, laboratory water.	Ultra-pure water, deionized water,laboratory water, distilled water,purified water.	Ultra-pure water, deionized water,laboratory water, distilled water,purified water.
Atmospheric Pressure Range	70.0 kPa to 106.0 kPa		
Ambient Temperature Range	+ 5 ° C ~ + 40 ° C		
Steam Generator Power	1.2 kVA ± 5%		
Fuse	F8AL250V phi 5 x 20 mm		
Safety Valve Setting Pressure	0.25 MPa		
Equipment Working Medium	Water Vapor		
Working Relative Humidity	≤85%		
Normal Use Place	Work room		
Run Mode	Run Intermittently (≤6 cycles/hour)		
Power Supply	AC 220V/50 Hz		
Consumption	≤1.3 kVA		
External Size(W×D×H)(mm)	570x415x170	580x460x190	580x460x190
Shipping Size (W×D×H)(mm)	700x580x580	700x580x580	700x580x580
N.W./G.W. (kg)	35/50	45/60	45/60

Ethylene Oxide Sterilizer



Description

Ethylene oxide sterilizer is mainly through its non-specific alkylation with genetic materials such as protein and DNA / RNA in microorganisms, resulting in the denaturation of proteins and genetic materials, and finally the death of microorganisms due to blocked metabolism.

Application

Rigid endoscope, hose endoscope, ophthalmic lens,fifiber optic cable, surgical instruments, metal, glass, silica gel, rubber, traditional Chinese medicine, western medicine,human plants, DNA, etc.

Advantage

●Humidification: Utilizes steam degradation analysis method with built-in steam generator for comprehensive and uniform humidification and heating while minimizing water mist.

●3.5" LCD screen: Equipped with a filter for stability, prolonging the service life and accuracy of the control screen.

●Power-off memory function: Preserves sterilization data and automatically resumes unfinished work procedures in case of accidents or power loss.

●Safety protection function: Includes alarm protection for abnormal temperature, ultra-high temperature, abnormal pressure, low vacuum rate, residual faults, phase sequence errors, and power shortage in the sterilization chamber to prevent further issues.

Ethylene Oxide Consumable

Steam EO sterilization pouch roll,Chemistry indicator strip,Biological indicator,Chemistry indicator tape, Chemical indicator label,EO sterilization gas, Medical non-woven fabric,Sealing machine,EO sterilization gas

Specification

Model		ST-EO40
Capacity		23L
Product form		Desktop
Heating method		Electric heating
Working temperature		50℃ ±3℃
Selected gas		Pure ethylene oxide gas
Sterilization time		0-99 hours adjustable
Temperature display		3.5 inch LCD display
Maximum anti-stress value		-140kpa
Power Supply		AC220V, 50Hz
Consumption		3.3KW
Size(WxDxH)	Internal (mm)	(DiameterxDepth): Ø246x450
	External (mm)	730x510x410
Shipping Size (WxDxH) (mm)		900x700x600
N.W./G.W. (kg)		56/76

BAWERS MEDICAL EQUIPMENT

Class N Benchtop Autoclave

Application

Used for laboratory sterilization, compact in size, can be placed on a desktop. It has a single program and can be used for sterilizing items such as culture media, test tubes, and tools. It can also be used for sterilization in hospitals, dental clinics, and other facilities.



Advantage

●Steam sterilizer compliant with Europe Class N standard, offering wrapped and unwrapped system options with 121 and 134 ℃ sterilization settings.

●Microprocessor-controlled system for intelligent control and user-friendly interface, suitable for Stomatology, Ophthalmology, Surgery, and Lab departments.

●Chamber constructed with special stainless steel #304, capable of withstanding working pressures from -0.9 bar to 2.3 bar and a maximum temperature of 136℃.

●Equipped with safety features including a safety valve, manual door lock, error self-test, and overheat protector.

●Three sterilizing plates included with the bracket for efficient use of space.

●Quick sterilization process ranging from 15 to 30 minutes, depending on the selected temperature.

Specification

Model	ST-B16N	ST-B18N	ST-B24N
Capacity	16L	18L	24L
Sterilization Temperature	134℃/121℃		
Display accuracy	±0.5℃		
Recording accuracy	±0.5℃		
Sensor accuracy	0.01℃		
Tray	3pcs SS trays on SS shelf		
Display	LED display		
Consumption	1800W	1800W	2000W
Power Supply	AC220V/110V±10%;50/60Hz		
Chamber Size (mm)	Ø230x360	Ø249x355	Ø249x450
External Size(WxDxH)(mm)	550x445x395	550x445x395	640x445x395
Shipping Size(WxDxH)(mm)	670x550x500	670x550x500	740x550x500
N.W./G.W. (kg)	26/32	27/33	33/39

Class N Benchtop Autoclave

Class N Benchtop Autoclave

Application

Used for laboratory sterilization, compact in size, can be placed on a desktop. It has a single program and can be used for sterilizing items such as culture media, test tubes, and tools. It can also be used for sterilization in hospitals, dental clinics, and other facilities.





LED display screen



Pressure Gauge

Advantage

●Complies with European Class N standard for sterilization effectiveness.

●Microcomputer control system for automatic cycle programming and temperature setting (121℃ and 134℃).User-friendly interface with touch buttons for easy operation.

●Safety interlocking device to prevent opening of the cover during pressurization or high temperature.

●Equipped with a standard test interface for additional functionality.

●Quality stainless steel inner tank and sealed cover for durability and airtight operation.

●Open-type top water tank for convenient water filling.

●Automatic protection functions, including over-temperature, over-pressure, low water level, and anti-dry burning.

●Buzzer reminder and automatic stop after sterilization.

●Automatic discharge of cold air and steam exhaust after sterilization.

●Built-in steam generator for quick production of saturated steam.

Specification

Model	ST-B18NI	ST-B24NI
Capacity	18L	24L
Rated working temperature	134℃	
Design pressure	0.25Mpa	
Design temperature	139℃	
Rated working pressure	0.22Mpa	
Temp accuracy	±1℃	
Consumption	1.5kw	2kw
Power Supply	AC220V/110V±10%;50/60Hz	
Chamber Size (mm)	Ø250x370	Ø250x452
External Size(WxDxH)(mm)	540x400x350	640x400x350
Shipping Size(WxDxH)(mm)	540x450x390	640x450x390
N.W./G.W. (kg)	24/26	27/29

BAWERS MEDICAL EQUIPMENT

Benchtop Class B Autoclave



Advantage

●Built-in vacuum pump, with three adjustable pulsating vacuum cycles, achieving a vacuum degree of up to -0.090MPa.

●Vacuum drying system, with fabric drying rate less than 1% and instrument drying rate less than 0.1%.

●Multi Safety Features

Overheat protection: Automatically cutting off. Audible and visual alarm will be there.

Interlock safety: To prevent a cycle from starting if the door is not locked or stop dooropening when the chamber is pressurized.

Anti-burning protection:Auto shut-off with audible and visual alerts for low water levels in autoclave.

Steam pressure safety valve: Automatically starts when the chamber pressure exceeds the limit.

●Autoclave Functions: automatic operation, touch screen interface, built-in vacuum pump, steam generator, post-vacuum drying, positive pulsing, air filter, optional printer for real-time record keeping.

Specification

Model	ST-B45B
Capacity	45L
External Size(W*D*H)	870x600x520mm
Chamber Size(Ø*H)	Φ316x590mm
Chamber Material	SUS304
Sterilization Temperature	105~136 ℃
Designed Temperature	150℃
Max.Working Temperature	136 ℃
Temp.Accuracy	0.1℃
Temp. Uniformity	≤±0.5℃
Designed Pressure	0.3Mpa
Sterilization Time range	0.23Mpa
Pressure Resoluiton	0.1KPa
Ultimate Vacuum	-0.096MPa
Temp. Controller	PID control by microprocessor
Display	LCD touch screen
Drying Function	YES
Drying Time	15min
Sterilization Program	●Medical instrument program ●Luminal instruments ●Dressings program ●Rubber program ●Liquid program ●BD Test program ●Vacuum Test progrm ●4 pcs DIY progrm
Water Injection method	Built-in water tank
Consumption	3.6KW
Power Supply	220V 50Hz
Standard Sterilization Shelf	1pcs SS shelf
Optional Accessory	Printer
Net Weight	65kg
Gross Weight	120kg
Shipping Size(W*D*H)	1150×700×700mm

Class B Benchtop Autoclave, Automatic Door



Advantage

●Complies with European CLASS B standard for effective sterilization.

●Automatic door switch for convenient and safe operation.

●Microcomputer control with LED display ensures precise and reliable sterilization.

●Equipped with BD test, HELIX test, and Vacuum test for comprehensive sterilization performance.

●Standard test interface for convenient testing and validation.

●Automatic protection function includes over temperature, over pressure, low water level, anti dry burning, and safety door lock.

●Safety interlocking device for secure operation.

●Three times pre-vacuum enhances sterilization efficiency.

●Buzzer reminder and automatic stop after sterilization cycle completion.

●Automatic discharge of cold air and steam exhaust for efficient and safe operation.

●Built-in steam generator provides quick production of saturated steam.

●Built-in printer for record-keeping and documentation.

Specification

Model	ST-BA18B	ST-BA24B	ST-BA45B
Capacity	18L	24L	45L
Consumption	2.2kw	2.2kw	3.5kw
Power Supply	220V110V;50/60Hz		
Design pressure	0.25Mpa		
Design temperature	139℃		
Rated working pressure	0.22Mpa		
Rated working temperature	134℃		
Chamber Size	Ø250x370	Ø250x470	Ø316x615
External Size(WxDxH)(mm)	505x620x450	505x710x450	657x870x575
Shipping Size(WxDxH)(mm)	560x670x510	560x760x510	750x980x630
N.W./G.W. (kg)	53/62	58/65	105/142

BAWERS MEDICAL EQUIPMENT

Benchtop Class N Autoclave

Application

Used for laboratory sterilization, compact in size, can be placed on a desktop. It has a single program and can be used for sterilizing items such as culture media, test tubes, and tools. It can also be used for sterilization in hospitals, dental clinics, and other facilities.



Description

Bechtop Class N Autoclave uses saturated steam as the sterilization medium,exhausts the cold air by gravity. So that the saturated steam fully penetrates the surface of the items. By utilizing high-temperature saturated steam under high pressure, it effectively kills all microorganisms and their spores, providing reliable sterilization results. It is considered one of the most effective methods among physical sterilization techniques.

Application

It is widely used in fields such as pharmaceuticals, biotechnology, and laboratories for sterilizing items. such as dressing/fabrics, medical instruments, rubber, and liquids.

Advantage

●Multi Safety Features

Overheat protection： automatically cutting off heating with audible and visual alarming when the autoclave is overheated.

Electric interlock safety: preventing from starting a cycle if door is not properly locked or from door opening if the chamber is pressurized or the power is disconnected.

Door-temperature interlock safety: preventing from explosion of liquids if the liquids temperature is not cooled down the safe limit (20℃ lower than the local boiling point).

Anti-burning protection： automatically cutting off heating with audible and visual alarming when the autoclave is lack of water.

Steam pressure safety valve: automatically works when the chamber pressure exceeds the limit.

Electrical circuit safety device for over-current and shortcut protection.

●Automatic operation of sterilization (heating, sterilization, steam discharge and drying) can be easily set and monitored by the LCD touch screen.

●Built-in steam generator prevents the media from contamination.

●Buzzer for working errors and the end of the cycle.

●Automatic atmospheric pressure adjustment for the installation and operation in plateau areas.

●Optional printer, real-time record sterilization process, error and alarm information.

Specification

Model	ST-B45N
Capacity	45L
External Size(W*D*H)	870x600x520mm
Chamber Size(Ø*H)	Φ316x590mm
Chamber Material	SUS304
Sterilization Temperature	105~136 ℃
Designed Temperature	150℃
Max.Working Temperature	136 ℃
Temp.Accuracy	0.1℃
Temp. Uniformity	≤±0.5℃
Designed Pressure	0.3Mpa
Sterilization Time range	0.23Mpa
Temp. Controller	PID control by microprocessor
Display	LCD touch screen
Drying Function	YES
Drying Time	15min
Sterilization Program	●Dressings/Fabric program ●Medical instrument program ●Rubber program ●Liquid program ●DIY program
Water Injection method	Built-in water tank
Consumption	3.6KW
Power Supply	220V 50Hz
Standard Sterilization Shelf	1pcs SS shelf
Optional Accessory	Printer
Net Weight	65kg
Gross Weight	120kg
Shipping Size(W*D*H)	1150×700×700mm

BAWERS MEDICAL EQUIPMENT

Class B Benchtop Autoclave, ST-BB series



ST-BB auto door



ST-BB manual

Specification

Model	ST-B8DB	ST-B18DB	ST-B24DB	ST-B24DZB	ST-B29DZB
Capacity	8L	18L	24L	24L	29L
Door	Manual	Manual	Manual	Automatic	Automatic
Display	4.3 inch Color touch screen	5.0 inch Color touch screen			
Chamber Material	SUS304				
Sterilization Temperature	105~138 ℃				
Max.Working Temperature	134℃				
Temp.Uniformity	≤±1℃				
Designed Pressure	-0.1~0.3Mpa				
Timer Range	0~99min				
Sterilization Pressure	0.23Mpa				
Drying Function	Yes				
Drying Time	2min，20min，25min				
Pulse time	1~5				
Sterilization Program	Fast 134℃ Fabric 134℃ Packaging Equipment 134℃ Enhanced Mode 134℃ Rubber program 121℃ Packaging Equipment 121℃ DIY Program HELIX/B&D Test Vacuum Test				
Evaporator	New generation evaporator				
Water Injection method	Build in water tank				
Standard Sterilization Shelf	3pcs SS shelf				
Consumption	2500w	2600w	2700w	2700w	2800w
Power Supply	220V ±22V 50/60Hz ±1Hz				
Chamber Size(ØxH)	Ø170x320mm	Ø248x350mm	Ø248x450mm	Ø248x450mm	Ø320x362mm
External Size(WxDxH)	550x436x375mm	600x483x455mm	700x483x455mm	700x483x455mm	658x638x580mm
Net Weight	37kg	47kg	53kg	53kg	95kg

Class B Benchtop Autoclave



ST-B8B, ST-B12B



ST-B18B, ST-B24B

Advantage

- ●Complies with European Class B standard for eective sterilization.
- ●Microcomputer control wirh LCD display and touch buttons ensures easy monitoring and precise operation.
- ●Equipped with BD test, HELIX test, and VACUUM test for comprehensive sterilization performance.
- ●Automatic protection function includes over temperature, over pressure, and low water level protection, as well as anti-dry burning and safety door lock. Safety interlocking device ensures proper operation and prevents accidents.
- ●Three times pre-vacuum enhances sterilization eciency and eectiveness.
- ●Buzzer reminder signals the completion of sterilization cycles, and automatic stop ensures safety.
- ●Automatic discharge of cold air and steam exhaust after sterilization for ecient and safe operation.
- ●Built-in steam generator provides quick production of saturated steam for sterilization processes.
- ●Optional accessory:external or internal printer,usb disk.

Specification

Model	ST-B8B	ST-B12B	ST-B18B	ST-B24B
Capacity	8L	12L	18L	24L
Consumption	2kw	2kw	2kw	2kw
Power Supply	220V110V;50/60Hz			
Design pressure	0.25Mpa			
Design temperature	139℃			
Rated working pressure	0.22 Mpa			
Temp accuracy	±1℃			
Rated working temperature	134℃			
Chamber Size	Ø170x320	Ø200x355	Ø250x370	Ø250x452
External Size(WxDxH)(mm)	580x445x400	600x445x400	640x480x450	690x480x450
Shipping Size(WxDxH)(mm)	650x500x450	660x510x460	720x560x510	760x560x510
N.W./G.W. (kg)	42/45	44/48	48/57	53/60

BAWERS MEDICAL EQUIPMENT

Horizontal Pulse Vacuum Sterilizer

Motor Hinge Door



Advantage

Sliding door with detachable gear meshing seal structure, driven by motor chain to lift the door up and down.

Double door passage type, equipped with pressure safety interlock and temperature safety interlock for liquid programs, with mutual interlocking of the double doors.

The automatic sealing is achieved by the inflatable pressure-driven sealing ring. The new high-quality tear-resistant silicone rubber material circular hollow door sealing ring is coated with a special surface treatment, which is wear-resistant and smooth, providing better sealing effect and longer service life, with a lifespan of up to 1500 cycles.

The main body structure is rectangular in section, with a European-style circular reinforcement rib sleeve flangeless structure, and the sealing groove is directly welded to the two end circular sleeves.

Control system: Siemens programmable logic controller (PLC) and color touch screen, the entire process is automatically controlled by the program, automatically displaying the operation status, operation curve, and parameters such as temperature, pressure, and time.

Intelligent maintenance system: Equipped with MNcold Internet of Things remote monitoring and maintenance module, it can connect to computers, tablets, or smartphones to access real-time information of the equipment, including real-time and historical operational data, fault troubleshooting notifications, and remote software upgrades. It has sterilization programs for fabrics, instruments, lumen instruments, rubber, liquids, custom programs, as well as testing programs such as BD testing and vacuum leak testing.

Pulsation modes: It adopts negative pressure pulsation, cross-pressure pulsation, and positive pressure pulsation modes, with an air elimination rate greater than 99.99%. This saves steam consumption and improves steam sterilization and drying efficiency.

Flash steam vacuum drying technology, with fabric drying degree less than 0.6% and instrument drying degree less than 0.1%.

Real-time printing of process data through the built-in printer, equipped with paperless recorders for pharmaceutical customers.

Pipeline system: Stainless steel sanitary-grade pipelines with clamp connections. All welds are done using automatic pipe welding machines. The main control valves are imported German angle seat valves and solenoid valves, with a German SPECK direct-coupled water ring vacuum pump.

Supply system detection and alarm system: Equipped with steam, water source, and power phase sequence detection and alarm devices. If the supply system fails to meet the equipment's operating conditions, it will automatically sound an alarm and prevent program startup and termination.

It has an automatic drainage temperature regulation system, with a drainage temperature below 60℃.

BAWERS
MEDICAL EQUIPMENT

Specification

Model	ST-BA650PV	ST-BA800PV	ST-BA1000PV	ST-BA1200PV	ST-BA1500PV
Chamber Size(ØxL)mm	610×910×1200	610×910×1500	610×910×1800	680×1180×1500	680×1180×1850
Capacity	650L	800L	1000L	1200L	1500L
External Size(W×D×H)(mm)	1500×1350×1900	1800×1350×1900	2100×1350×1900	1800×1420×2000	2100×1420×2000
Weight(kg)	1250	1350	1550	1650	1850
Steam Consumption(KG/C)	35	47	55	65	80
Water Consumption(KG)	320	400	500	600	750
Power Supply and Consumption	380V,50HZ 3KW+(36KW)	380V,50HZ 3.5KW+(48KW)	380V,50HZ 3.5KW+(54KW)	380V,50HZ 3.5KW+(72KW)	380V,50HZ 4KW+(90KW)
N.W. (kg)		1350	1550	1650	1850
Chamber design pressure	0.3MPa				
Generator design pressure	1.0MPa				
Design temperaure	150℃				
Maximum operating temperature	139℃				
Maximum operating pressure	0.25MPa				
Chamber relief valve	0.28MPa				
Jacket relief valve	0.28MPa				
Accuracy of pressure	0.1KPa				
Sterilization temperature control accuracy	±1℃				
Temperature uniformity	±1℃				
Negative pressure pulsating vacuum	-80 ~0KPa				
Across the pressure pulsation	-80~80KPa				
Positive pressure pulse	0 ~ 9 times				
Maximum vacuum	-96KPa				

Horizontal Pulse Vacuum Sterilizer

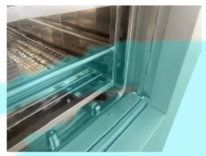
Horizontal Sliding Door

CE





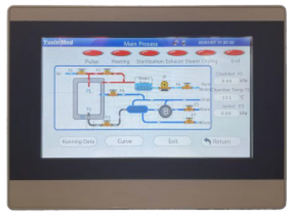
Tube & Pump



Door



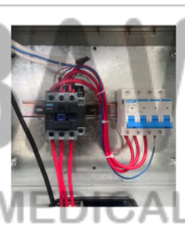
Steam Generator



Display Screen



Electric Box



Switch

Advantage

Sliding door switch structure, the door slides horizontally to open and close, driven by a motor chain, no manual operation required.

Double-door passage type, equipped with pressure safety interlock and temperature safety interlock for liquid programs, with mutual interlocking of the two doors.

The inflatable pressure drives the sealing ring to achieve automatic sealing. The new high-quality tear-resistant silicone rubber material circular hollow door sealing ring has a special surface coating treatment, which is wear-resistant, smooth, and has better sealing effect and longer service life, with a lifespan of up to 1500 cycles.

The main structure is a rectangular section with a European-style circular reinforcement clamp-on flange structure, and the sealing groove is directly welded to the two end circular clamps.

Control system: Siemens programmable logic controller (PLC) and color touch screen, the entire process is automatically controlled by the program, automatically displaying the operating status, operating curve, and parameters such as temperature, pressure, and time.

Smart Maintenance System: Equipped with MNcold IoT remote monitoring and maintenance module, it can access device information in real time from anywhere through computers, tablets, or smartphones. This includes real-time and historical operational data, troubleshooting notifications, and remote software upgrades.

It has sterilization programs for fabrics, instruments, luminal instruments, rubber, liquids, waste, customization, as well as testing programs such as BD testing and vacuum leak testing.

Pulsation modes: Negative pressure pulsation, cross-pressure pulsation, and positive pressure pulsation modes are used, with an air exclusion rate of over 99.99%, saving steam consumption and improving steam sterilization and drying effects.

Flash steam vacuum drying technology, fabric drying rate is less than 0.6%, instrument drying rate is less than 0.1%.

Real-time printing of process data through the built-in printer, pharmaceutical customers equipped with paperless recorders.

Piping system: Stainless steel sanitary grade piping with clamp connections, all welds are done using automatic pipe welding machines. The main control valves are imported German angle seat valves and solenoid valves, and the German SPECK direct-coupled water ring vacuum pump is used.

Equipped with a high-efficiency filter for exhaust gas, with a filtration accuracy of 0.22 microns and a sterilization rate of 99.99%. It has online SIP function to ensure that the discharged gas is sterilized by the high-efficiency filter.

The supply system is equipped with a detection and alarm system: equipped with steam, water source, and power phase sequence detection and alarm devices. Once the supply system does not meet the equipment operating conditions, it will automatically alarm, prohibit program startup, and terminate program operation.

It has an automatic drainage temperature regulation system, with a drainage temperature <60℃.

Specification

Model	ST-BH120PV	ST-BH150PV
Chamber Size (ØxL)mm	680×1180×1500	680×1180×1800
Capacity	120L	150L
External Size(W×D×H)(mm)	2007×2110×2113	2357×2110×2113
Weight(kg)	2300	2450
Steam Consumption(KG/C)	600	750
Water Consumption(KG)	65	80
Power Supply and Consumption	380V,50HZ，3.5KW（72Kw)	380V,50HZ 4KW(90KW)
N.W.(kg)	2300	2450
Chamber design pressure	-0.1/0.3MPa	
Jecket design pressure	0.3MPa	
Generator design pressure	1.0MPa	
Design temperaure	150℃	
Maximum operating temperature	139℃	
Maximum operating pressure	0.25MPa	
Chamber relief valve	0.28MPa	
Jacket relief valve	0.28MPa	
Accuracy of temperature	0.1℃	
Accuracy of pressure	0.1KPa	
Sterilization temperature control accuracy	±1℃	
Temperature uniformity	±1℃	
Negative pressure pulsating vacuum	-80 ~0KPa	
Across the pressure pulsation	-80~80KPa	
Positive pressure pulse	0 ~ 9 times	
Maximum vacuum	-96KPa	

BOWERS MEDICAL EQUIPMENT

Horizontal Pulse Vacuum Sterilizer

Motorized Vertical Sliding Door

CE





Pump



Printer & Pressure Meter & Display



Control Panel



Display Screen



Pressure Meter



Control Panel



Door



Door

Advantage

The structure of the lift door switch is a motor-driven chain that vertically lifts and slides the door, eliminating the need for manual operation and saving space. It is a double-door channel type with interlocking doors. It is equipped with pressure safety interlock and temperature safety interlock for liquid programs.

The inflatable pressure-driven sealing ring achieves automatic sealing. The new high-quality tear-resistant silicone rubber material circular hollow door sealing ring is treated with a special surface coating, which is wear-resistant and smooth, providing better sealing effect and longer service life. The lifespan can reach up to 1500 cycles.

The main structure is rectangular in section, with a European-style circular reinforcement rib clamp-on flange structure. The sealing groove is directly welded to the two end circular clamps.

Control system: Siemens programmable logic controller (PLC) and color touch screen. The entire process is automatically controlled by the program, displaying the running process status, running curve, and parameters such as temperature, pressure, and time.

Intelligent maintenance system: Equipped with the MNcold Internet of Things remote monitoring and maintenance module, it can connect to the device's information in real-time and remotely from anywhere using a computer, tablet, or smartphone. This includes real-time and historical operating data, fault troubleshooting notifications, and remote software upgrades.

It has sterilization programs for fabrics, instruments, luminal instruments, rubber, liquids, and custom items, as well as testing programs such as BD testing and vacuum leak testing.

Pulsation modes: It uses negative pressure pulsation, cross-pressure pulsation, and positive pressure pulsation modes, with an air exclusion rate of over 99.99%. This saves steam consumption and improves steam sterilization and drying efficiency.

Flash steam vacuum drying technology, fabric drying degree less than 0.6%, instrument drying degree less than 0.1%.

Real-time printing of process data through built-in printer, equipped with paperless recorder for pharmaceutical customers.

Pipeline system: Stainless steel sanitary grade pipeline, clamp connection, all welds are welded with automatic pipe welding machine; main control valves are imported German angle seat valves and solenoid valves, German SPECK direct-coupled water ring vacuum pump.

Specification

Model	ST-BV150PV	ST-BV180PV	ST-BV250PV	ST-BV300PV	ST-BV360PV	ST-BV450PV	ST-BV600PV	ST-BV800PV
Chamber Size(ØxL)mm	450×450×750	450×450×900	550×550×845	550×550×1000	610×610×1000	652×690×1000	652×690×1350	652×690×1800
Capacity	150L	180L	250L	300L	360L	450L	600L	800L
External Size(W*D*H)mm	1045×1120×1800	1185×1120×1800	1200×1290×1850	1350×1290×1850	1350×1350×1850	1350×1400×1950	1700×1400×1950	2150×1400×1950
Steam Consumption(KG/C)	12	12	16	18	20	22	35	52
Water Consumption(KG)	80	90	120	140	160	180	320	400
Power	380V,50HZ, 2KW+(12KW)	380V,50HZ, 2KW+(15KW)	380V,50HZ, 2KW+(20KW)	380V,50HZ, 2KW+(20KW)	380V,50HZ, 2KW+(20KW)	380V,50HZ, 2KW+(30KW)	380V,50HZ, 3KW+(36KW)	380V,50HZ, 3.5KW+(48KW)
Shipping Size (WxDxH)(mm) Main Unit of Autoclave	1210×1280×2110	1350×1270×2100	1350×1450×2100	1500×1400×2100	1470×1500×2150	1500×1550×2200	1850×1550×2250	2150×1430×2250
Single Door Vehicle	1450x700x1100	/	1420×800×1050	/	1600×750×1100	/	/	2350×1350×1100
Double Door Vehicle	1450x1210x1100	1520×1070×1150	1420×1200×1050	1500×1150×960	/	1450×1150×1050	1900×1150×1050	/
N.W./G.W. (kg)	520/670	560/710	745/895	820/970	870/1020	965/1115	1150/1300	1350/1500
Chamber design pressure	-0.1/0.3MPa							
Jacket design pressure	0.3MPa							
Generator design pressure	1MPa							
Design temperaure	150℃							
Maximum operating temperature	139℃							
Maximum operating pressure	0.25MPa							
Chamber relief valve	0.28MPa							
Jacket relief valve	0.28MPa							
Accuracy of temperature	0.1℃							
Accuracy of pressure	0.1KPa							
Sterilization temp. control accuracy	±1℃							
Temperature uniformity	±1℃							
Negative pressure pulsating vacuum	-80 ~0KPa							
Across the pressure pulsation	-80 ~80KPa							
Positive pressure pulse	0 ~ 9 times							
Maximum vacuum	-96KPa							

BAWERS MEDICAL EQUIPMENT

Horizontal Pulse Vacuum sterilizer

Mechanical door





Internal Structure



Internal Structure



Internal Structure



Pressure gauge



Pump

Description

ST-BVA series pulsating vacuum sterilizer uses saturated steam for sterilization. The steam thoroughly penetrates into the surface of articles by means of pulsating vacuum. The high pressure and high temperature saturated steam can effectively kill all microorganisms and their spores, which is the most effective method in physical sterilization. The effect of cold air on temperature is eliminated by pulsating vacuum exhaust, and the articles are sterilized by vacuum dehumidification and jacket drying. The sterilizer is suitable for pharmaceutical biological engineering, medical health, laboratory animals and other fields, and can be used for sterilizing utensils, aseptic clothes, rubber plugs, aluminum caps, raw materials, filters, media and so on.

Advantage

1. Translation door, with anti-pinch hand function.

2.Double-door channel type, with pressure safety interlock, liquid program with temperature door safety interlock.

3.Automatic sealing ring, sealing effect is good, the service life is up to 1500 cycles.

4.The main structure is European ring reinforcement jacket structure, programmable controller PLC, color touch screen.

5.With aseptic clothing, utensils, rubber, liquid, medium, waste, custom procedures such as sterilization procedures and BD test, vacuum leak test and other test procedures.

6.Built-in micro needle printer, equipped with paperless recorder.

7.Intelligent maintenance system: optional remote monitoring and maintenance module; Water saving noise reduction system is optional.

8.Pipeline system: sanitary pipeline, clamp connection, automatic pipe welding machine welding, direct-connected water ring vacuum pump.

9. Automatic drainage device, optional jacket automatic control drainage device, the inner chamber are installed automatic control drainage device, automatic detection jacket and inner chamber temperature pressure automatic drainage, to ensure the saturation of steam.

10. With drainage temperature automatic adjustment system, drainage temperature ≤55°C.

11.Air filter: the filtration accuracy is <0.22 microns, the bactericidal rate of 99.97%.

BAWERS MEDICAL EQUIPMENT

Specification

Model	ST-BVA250PV	ST-BVA360PV	ST-BVA600PV	ST-BVA800PV	ST-BVA1000PV	ST-BVA1200PV	ST-BVA1500PV	ST-BVA2000PV	ST-BVA2500PV	ST-BVA3000PV	ST-BVA4000PV	ST-BVA6000PV
Capacity(L)	255	360	600	800	1000	1200	1500	2000	2500	3000	4000	6000
Interior design pressure	-0.1~03MPa											
Jacket design pressure	0.3MPa											
Design temperature	150℃											
Max working temperature	139℃											
Max working pressure	0.25MPa											
Vacuum leakage rate	≤0.13KPa/min											
Final vacuum	-96KPa											
Inner chamber opening pressure	0.28MPa											
Jacket safety valve opening pressure	0.28MPa											
Sterilization temperature control precision	0-2℃											
Temperature uniformity	±0.5℃											
Positive pressure pulsation	1~3											
Inner tank size (WxHxD)(mm)	550x550x850	610x610x1000	610x910x1200	610x910x1500	610x910x1800	680x1180x1500	680x1180x1850	900x1380x1620	900x1380x2050	900x1380x2400	900x1380x3200	900x1380x4800
Overall dimension (LxWxH)(mm)	1150x1280x1800	1300x1350x1850	1500x1440x1900	1800x1440x1900	2100x1440x1900	1800x1480x2000	2100x1480x2000	1970x1750x2200	2350x1750x2200	2700x1750x2200	3500x1750x2200	5400x1750x2200
Weight(kg)	750	850	1250	1350	1550	1650	1850	2300	2700	3500	3500	6200
Gas consumption(Kg/c)	18	22	35	47	55	65	80	106	132	132	132	132
Water consumption(Kg/c)	120	180	320	400	500	600	750	1000	1250	1250	1250	1250
Power Supply	380V,50HZ	380V,50HZ	380V,50HZ	380V,50HZ	380V,50HZ	380V,50HZ	380V,50HZ	380V,50HZ	380V,50HZ	380V,50HZ	380V,50HZ	380V,50HZ

Horizontal Pulse Vacuum sterilizer

Overhead door

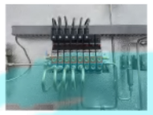




Internal Structure



Internal Structure



Internal Structure



Pressure gauge



Pump

Description

ST-BVB series pulsating vacuum sterilizer uses saturated steam as the medium, and completely kills microorganisms and spores on the surface of articles by pulsating vacuum. This is the most effective method of physical sterilization, and the sterilization effect is reliable. The effect of cold air on temperature is eliminated by pulsating vacuum exhaust, and the articles are sterilized by vacuum dehumidification and jacket drying. It can be widely used in pharmaceutical biological engineering, medical health, laboratory animals and other fields, and is suitable for the sterilization of utensils, aseptic clothes, rubber plugs, aluminum caps, raw materials, filters, media and other items with high sterilization requirements.

Advantage

1. Translation door, with anti-pinch hand function.

2.Double-door channel type, with pressure safety interlock, liquid program with temperature door safety interlock.

3.Automatic sealing ring, sealing effect is good, the service life is up to 1500 cycles.

4.The main structure is European ring reinforcement jacket structure, programmable controller PLC, color touch screen.

5.With aseptic clothing, utensils, rubber, liquid, medium, waste, custom procedures such as sterilization procedures and BD test, vacuum leak test and other test procedures.

6.Built-in micro needle printer, equipped with paperless recorder.

7.Intelligent maintenance system: optional remote monitoring and maintenance module; Water saving noise reduction system is optional.

8.Pipeline system: sanitary pipeline, clamp connection, automatic pipe welding machine welding, direct-connected water ring vacuum pump.

9.Automatic drainage device, optional jacket automatic control drainage device, the inner chamber are installed automatic control drainage device, automatic detection jacket and inner chamber temperature pressure automatic drainage, to ensure the saturation of steam.

10.With drainage temperature automatic adjustment system, drainage temperature ≤55°C.

11.Air filter: the filtration accuracy is <0.22 microns, the bactericidal rate of 99.97%.

BAWER MEDICAL EQUIPMENT

Specification

Model	ST-BVB150PV	ST-BVB250PV	ST-BVB300PV	ST-BVB360PV	ST-BVB450PV	ST-BVB600PV	ST-BVB800PV
Capacity (L)	150	250	300	360	450	600	800
Interior design pressure	-0.1~03MPa						
Jacket design pressure	0.3MPa						
Design temperature	150℃						
Max working temperature	139℃						
Max working pressure	0.25MPa						
Vacuum leakage rate	≤0.13KPa/min						
Final vacuum	-96KPa						
Inner chamber opening pressure	0.28MPa						
Jacket safety valve opening pressure	0.28MPa						
Sterilization temperature control precision	0-2℃						
Temperature uniformity	±0.5℃						
Positive pressure pulsation	1~3						
Inner tank size (WxHxD)(mm)	450x450x750	550x550x850	550x550x1000	610x610x1000	650x700x1000	650x700x1320	650x700x1750
Overall dimension (LxWxH)(mm)	1050x1200x1750	1150x1300x1800	1300x1300x1800	1300x1350x1900	1300x1360x1950	1620x1360x1950	2050x1360x1950
Weight(kg)	550	850	850	950	1050	1150	1350
Gas consumption(Kg/c)	12	18	18	22	30	36	45
Power Supply	380V,50HZ	380V,50HZ	380V,50HZ	380V,50HZ	380V,50HZ	380V,50HZ	380V,50HZ
Consumption	2KW+(12KW)	2KW+(24KW)	2KW+(24KW)	2KW+(30KW)	2KW+(30KW)	2KW+(48KW)	2KW+(48KW)

Horizontal Pulse Vacuum sterilizer

Sliding door





Internal Structure



Internal Structure



Internal Structure



Pressure gauge



Pump

Description

ST-BVH series pulsating vacuum sterilizer uses saturated steam as the medium, through pulsating vacuum, efficient killing of microorganisms and their spores, is the most effective physical sterilization method. Pulsating vacuum exhaust is adopted to eliminate the influence of cold air on temperature, and finally sterilization is achieved through vacuum dehumidification combined with jacket drying. Suitable for pharmaceutical biological engineering, medical health, laboratory animals and other fields, the high requirements of sterilization of equipment, aseptic clothing, rubber stopper, aluminum cap, raw materials, filters, media and other items.

Advantage

1.Translation door, with anti-pinch hand function.

2.Double-door channel type, with pressure safety interlock, liquid program with temperature door safety interlock.

3. Automatic sealing ring, sealing effect is good, the service life is up to 1500 cycles.

4. The main structure is European ring reinforcement jacket structure, programmable controller PLC, color touch screen.

5.With aseptic clothing, utensils, rubber, liquid, medium, waste, custom procedures such as sterilization procedures and BD test, vacuum leak test and other test procedures

6. Built-in micro needle printer, equipped with paperless recorder.

7.Intelligent maintenance system: optional remote monitoring and maintenance module; Water saving noise reduction system is optional

8.Pipeline system: sanitary pipeline, clamp connection, automatic pipe welding machine welding, direct-connected water ring vacuum pump.

9.Automatic drainage device, optional jacket automatic control drainage device, the inner chamber are installed automatic control drainage device, automatic detection jacket and inner chamber temperature pressure automatic drainage, to ensure the saturation of steam.

10.With drainage temperature automatic adjustment system, drainage temperature ≤55°C.

11.Air filter: the filtration accuracy is <0.22 microns, the bactericidal rate of 99.97%.

Specification

Model	ST-BVH1200PV	ST-BVH1500PV	ST-BVH2000PV	ST-BVH2500PV	ST-BVH3000PV	ST-BVH6000PV	ST-BVH6700PV	ST-BVH13600PV
Capacity(L)	1200	1500	2000	2500	3000	6000	6700	13600
Interior design pressure	-0.1~03MPa							
Jacket design pressure	0.3MPa							
Design temperature	150℃							
Max working temperature	139℃							
Max working pressure	0.25MPa							
Vacuum leakage rate	≤0.13KPa/min							
Final vacuum	-96KPa							
Inner chamber opening pressure	0.28MPa							
Jacket safety valve opening pressure	0.28MPa							
Sterilization temperature control precision	0-2℃							
Temperature uniformity	±0.5℃							
Positive pressure pulsation	1~3							
Inner tank size(WxHxD)(mm)	680x1180x1500	680x1180x1800	900x1380x1620	900x1380x2020	900x1380x2400	900x1380x4800	1250x1380x3910	1250x1380x7850
Overall dimension (LxWxH)(mm)	2007x2710x2173	2357x2110x2713	1950x2750x2200	2300x2750x2200	2700x2750x2200	5400x2750x2200	5400x3200x2200	8500x3200x2200
Weight(kg)	2300	2450	3000	3600	3800	6600	7000	11000
Gas consumption(Kg/c)	65	80	100	120	150	320	350	620
Water consumption(Kg/c)	600	750	900	1100	1300	2400	2600	4800
Power Supply	380V,50HZ	380V,50HZ	380V,50HZ	380V,50HZ	380V,50HZ	380V,50HZ	380V,50HZ	380V,50HZ
Consumption	3.5kw+(73kw)	3.5kw+(90kw)	4.5kw	6kw	8kw	12kw	12kw	24kw

BAWERS MEDICAL EQUIPMENT

Dry heat sterilizer

Application

suitable for dry heat sterilization on the door Pharmaceutical vials, ampoules, aluminum cap, metal and glass parts Sterile pyrogen removing and drying sterilization of solid materials.



Description

Under the action of the circulating fan, heating tube, and dehumidifying fan, the dry heat sterilizer rapidly heats up. At the same time, clean and dry air enters the sterilization chamber through a high-efficiency filter, absorbing moisture from the surface of the materials. The absorbed moisture evaporates and is discharged through the circulating channel. The dry air circulates in a directed manner under the action of the fan. As the water vapor gradually decreases, fresh filtered air is intermittently replenished. The chamber is maintained at a slightly negative pressure, and the temperature in the sterilization chamber reaches the set value. It is kept at the set temperature for insulation circulation, achieving sterilization of the sterilized items.

Specification

Model	ST-DH360	ST-DH450	ST-DH650	ST-DH800	ST-DH1000	ST-DH1200	ST-DH2000
Chamber Material	304/316L						
Capacity(L)	360	450	650	800	1000	1200	2000
Power Supply	18kVA	20kVA	21kVA	24kVA	27kVA	27kVA	36kVA
Sterilizer Temperature	RT~300℃						
Noise	≤85dB						
Cleanliness Grade	CLass 100						
Cooling method	Air Cooling/Water Cooling						

General evaporator



Description

A steam generator is a device that converts electrical energy into thermal energy to produce steam. It heats water in a sealed container using electric heating elements to generate high-pressure steam, which is then supplied to steam-using equipment. The evaporator consists of a main body, electrical control system, water inlet pump, electric heating elements, liquid level controller, pipeline system, and other components. It has various automatic control functions and advantages such as small size, no pollution, simple operation, and safety and reliability.

Specification

Model	ZFQ-G54	ZFQ-G60	ZFQ-G72	ZFQ-G90	ZFQ-G120
Material	Q245R/304				
Capacity(L)	28L	28L	42L	48L	49
Power Supply	54kVA	60kVA	72kVA	90kVA	120kVA
Pressure	0.8				
Water supply method	Automatic water inlet				
Heating method	Electric heating				
Control method	Automatic control				

BAWERS MEDICAL EQUIPMENT

Ethylene oxide sterilizer



Application

It is mainly used for various types of endoscopy, cotton, silicone, rubber, catheter wires and various medical consumables, and will not corrode or damage the equipment.

Items that cannot be sterilized with ethylene oxide: liquids, aluminum-plastic packaging.

Description

The ST-EO series ethylene oxide sterilizer has the characteristics of sophisticated design and exquisite workmanship. It is mainly composed of a microcomputer control system, a residual gas treatment device, a sterilization studio and other parts. The principle is to rely on the ethylene oxide gas to circulate within a certain range. The sterilization effect is achieved under humidity pressure. Ethylene oxide gas directly destroys microbial proteins, prevents their metabolism, and can kill stubborn Bacillus.

Advantage

1. Ethylene oxide sterilizer is the most effective gas sterilization method currently known. It does no damage to items and the environment is not polluted.

2.Ethylene oxide is a colorless liquid at low temperatures with strong penetrating power. It can sterilize items at low temperatures with good sterilization effect.

3.The rectangular sterilization chamber design makes it easier to load more instruments at one time and increases the use space of the sterilization chamber.

4.The sterilization chamber uses electric heating technology to make the temperature of the sterilization chamber more uniform and the sterilization effect is stable and reliable.

5.It adopts a highly intelligent control processor and can be started with one button. It is easy to operate and can be used immediately after plugging in the power supply.

6.The disk capacity is ≥8G and can store and record sterilization data and related information for ≥1 million times.

Specification

Model	ST-EO3000	ST-EO6000	ST-EO10000	ST-EO20000
Chamber Size(W*D*H)	2220*960*1420	3350*1200*1500	5600*1200*1500	5900*1700*2000
External Size(W*D*H)	2400*1705*2200	3550*1900*2260	5850*1900*2260	6200*4300*3000
Consumption	14KVA	29KVA	35KVA	60KVA

H_2O_2 serious Hydrogen peroxide steam sterillzer(Customized type)





Application

Hydrogen peroxide vapor sterilizer (VHP) takes advantage of the fact that the gas state of hydrogen peroxide at room temperature is more capable of killing spores than the liquid state. It generates free hydroxyl groups and is used to attack cellular components, including lipids, Protein and DNA tissue, etc., meet the requirements of complete sterilization. It is a specially designed and manufactured special equipment that can be used for sterilization of closed spaces such as isolation type and isolator. It has broad-spectrum bactericidal effect and is suitable for sterilizing fungi, bacteria, viruses and spores. Compared with traditional sterilization technology, it is pollution-free, has better material compatibility, and is easy to use and verify. It can be widely used in pharmaceutical factories, laboratories and scientific research institutes.

Description

The hydrogen peroxide steam sterilizer is equipped with a vacuum system and a hydrogen peroxide steam generator. A specially configured hydrogen peroxide solution is injected into the evaporator, and the hydrogen peroxide is injected into the sterilization chamber under low temperature and vacuum conditions. The steam is maintained for a corresponding period of time to allow the active substances to chemically react with the proteins and nucleic acids in the microorganisms, destroying the microorganisms and disturbing the survival functions of the microorganisms, and then uses H_2O_2 as the medium to act on the microbial cells to further kill the microorganisms. The sterilizing agent generally uses a food-grade hydrogen peroxide solution of a certain concentration, which has no toxic substance residues, does not require drainage or ventilation, does no harm to the operator's body, and does not pollute the environment.

PAWERS MEDICAL EQUIPMENT

Ethylene Oxide Sterilizer

CE



ST-EO80/120/220/330



ST-EO120I/220I

BAWERS MEDICAL EQUIPMENT

Advantage

1. Fully automatic control system, one click start to end, complete the entire process automatically
2. The display screen displays temperature, humidity, pressure, disinfection time, residual gas treatment time, and frequency
3. Built in sensor, automatically detects temperature, humidity, and pressure inside the cavity
4. The 5052 aluminum material sealing door has a pressure resistance of 200Kpa, and there is no leakage of ethylene oxide gas.
5. Residual gas treatment device filter for particle diameter ≥ 0.2 μm The filtration rate of m is not less than 99.5%

Specification

Model	ST-EO80	ST-EO120	ST-EO220	ST-EO330	ST-EO120I	ST-EO220I
Capacity	67 L	103 L	196 L	294L	126L	192L
Sterilizing Temp.	36-55℃					
Product form	Manual door vertical					
Heating method	Electric heating					
Display	5" LCD Touch Screen				7" LCD Touch Screen	
Controller	PLC					
Sterilizing Time	Adjustable 0-99 hour					
Sterilizer Pressure	-60kpa					
Sterilization Method	Low temperature, 100% Pure EO gas sterilization					
Safety Protection	Temperature and Pressure protection					
Tray	2 stainless net steel					
Printer	Built-in Thermal mini-printer					
USB port	Yes					
Internal Material	SS304 Stainless Steel				5052 Aluminium, has better thermal conductivity than stainless steel	
External Material	Carbon steel					
Vacuum system	High-performance, low-noise, oil-free vacuum pump					
Humidity system	Use saturated steam to humidify the sterilization chamber, and the air humidity is more uniform					
Timing system	EO gas diffusion time and residual EO aeration timing settable					
Pre-set	Standard Sterilization Mode and Residual Washing					
Power Supply	220V, 50Hz					
Consumption	2.6KW	3.0KW	3.3KW	3.6KW	3.0KW	3.6KW
Internal Size	585*275*422mm	585*375*472mm	705*505*552mm	760*545*712mm	700*450*400mm	820*510*460mm
External Size	795*615*1140mm	795*615*1140mm	968*800*1240mm	968*800*1400mm	976*790*1715mm	976*790*1715mm
Net Weight	124kg	147kg	207kg	227kg	227kg	247kg
Package Size	970*770*1310mm	940*750*1310mm	1120*920*1400mm	1020*930*1530mm	1130*920*186 0mm	1130*920*1860 mm
Gross Weight	150kg	177kg	237kg	277kg	274kg	297kg

Application

Materials that can be sterilized include hysteroscopes, laparoscopes, laryngoscopes, probes, rigid endoscopes, flexible endoscopes, ophthalmic lenses, fiber optic intracranial sensors, cryotherapy probes, prostatectomy devices, esophageal dilators, electrocautery equipment, defibrillation motors, laser heads, metals, glass, silicone, rubber, traditional Chinese medicine, Western medicine, human implants, etc

Description

Ethylene oxide sterilization is currently the most effective gas sterilization method known. It has the advantages of broad-spectrum sterilization, strong penetration, no damage to items, no pollution to the environment, reliable chemical and biological testing methods, and easy storage of sterilized items. It is an essential low-temperature sterilization equipment for hospitals.

Low-temperature Steam Formaldehyde Sterilizer



Application

Mainly used for low-temperature sterilization of heat and moisture resistant items, it can be used in operating rooms, supply rooms, endoscopy rooms, and other treatment rooms in medical institutions.

Description

The low-temperature steam formaldehyde sterilizer uses a vacuum system to create a low-pressure environment in the sterilization room. In the low-pressure environment, the formaldehyde solution is vaporized to form low-temperature formaldehyde vapor. The formaldehyde vapor is used to act on the items in the sterilization room, causing microbial proteins and genetic substances on the items to denature and cause microbial death, in order to achieve the purpose of sterilization.

Advantage

1.Loading method: A movable stainless steel basket with support rods to avoid stacking items.

2.Control system: Adopting Siemens PLC control system and friendly human-machine interaction interface, safe and reliable; One click start to finish, the entire process is automatically completed, displaying information such as temperature, pressure, sterilization time, etc. The system can be maintained and upgraded.

3.Heating system: PID temperature controller is used to control the door, inner tank, and steam generator respectively and ensure their working stability.

4.Display function: It can display temperature, pressure, time, operating mode, and alarm information.

5.Power outage memory function: reduces operating costs and risk of misoperation.

6.Steam generator: A self-developed fast evaporator that not only improves the vaporization rate of formaldehyde solution, but also enhances the sterilization effect.

7.Cleaning and drying function: With the independent addition of automatic cleaning and drying function, it greatly reduces the formaldehyde residue in the processed items while ensuring the basic requirement of not getting wet, ensuring that it is below the national standard value.

8.Automatic dosing function: Unique formaldehyde solution soft bag filling technology, automatic puncture filling, to avoid manual risks.

9.Printing function: capable of printing program name, sterilization date, sterilization pot number, sterilization start and end time, as well as pressure, temperature, stage time and other information of each stage of the sterilization process. Printing records should be kept for more than 5 years.

10.Storage function: Store sterilization data for no less than 15000 cycles, including program name, sterilization date, sterilization cycles, sterilization start and end time, as well as pressure, temperature, stage time, and end status of each stage of the sterilization process.

11.Alarm system: There is a high temperature alarm system.

12.Network connection: Equipped with a network connection port.

13.Vacuum pump: Adopting a German water ring vacuum pump with reliable quality, it not only meets the design pressure requirements of the sterilizer, but also accelerates the decomposition and absorption of formaldehyde vapor to a certain extent, with a higher safety factor.

14.Air filter: filtration accuracy ≤ 0.22 μ M;

15.Pressure sensor: The built-in pressure sensor uses high-precision sensors to automatically detect the pressure inside the cavity, ensuring that the accuracy of the pressure inside the cavity is controlled within an effective range.

16.Temperature sensor: embedded temperature sensor automatically detects the temperature inside the cavity, ensuring that the accuracy of the temperature inside the cavity is controlled within an effective range.

17.Multiple protection functions: equipped with multiple protection functions such as overvoltage, undervoltage, overtemperature, door failure, and door safety interlock device

Specification

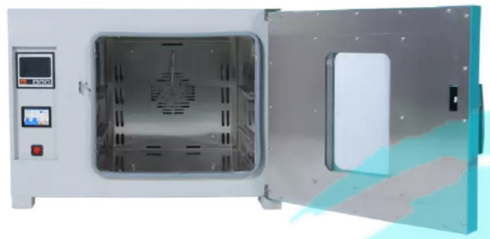
Model	ST-FT100	ST-FT130	ST-FT150
Capacity	100L	130L	150L
Chamber Size(W*D*H)	700*430*360mm	750*450*400mm	820*645*400mm
Consumption	5.3KW		
Sterilizer Solution	2% formaldehyde, 3% alcohol, and 95% distilled water solution		
Sterilizer Solution Packaging Specification	2L		
Single cycle dosage	0.6-1.3Kg		
Operating temperature	60℃ and 76℃		
Sterilization time	2-3.5 hours		
Water consumption	3.95Kg/min		
Heating Method	Electric heating		
Anti-pressure	5pa		
Operation Height	≤160cm		
Chamber Material	5052 corrosion resistant aluminum alloy, with antioxidant treated		
Cabinet material	ABS		
Door panel material	5052 corrosion resistant aluminum alloy, with antioxidant treated, ≥10mm		
Pipe materials	SS304 stainless steel		
Insulation materials	High quality insulation cotton		
Door form	Automatic door		
Display	8 inch Touch Screen		
External Size(W*D*H)	1070*790*1770mm		
Package Size(W*D*H)	1200*900*1980mm		

BAWERS MEDICAL EQUIPMENT

Infrared Sterilizer

CE





Advantage

●Automatic parameter adjustment: Control parameters are automatically adjusted based on ambient temperature and load for optimal heating and reduced energy consumption.

●High efficiency compressor ensures stable temperature control with low power consumption.

●Large-screen LCD display provides real-time parameter monitoring, with a self-locking function for easy operation.

●Equipped with a high-quality fan and large impeller, the incubator achieves higher ventilation efficiency and improved temperature uniformity.

●Back suction and bottom vertical air supply system ensures effective circulation within the chamber.

●The shelf can be freely adjusted up and down, with a minimum spacing of 30mm, allowing for flexible sample placement.

●A built-in observation window allows for clear visibility of objects inside the chamber.

●Door handle incorporates an anti-scalding design for easy and safe operation.

●Sterilizer is equipped with a leakage protection device and a temperature control sound and light alarm system for operator and equipment safety.

BAWERS
MEDICAL EQUIPMENT

Specification

Model		ST-H25A	ST-H50A	ST-H70A	ST-H100A	ST-H200A
Capacity		20L	50L	70L	100L	200L
Circulation		Forced air convection				
Temperature	Range	RT+10-250℃				
	Fluctuation	±0.5℃				
	Resolution	0.1℃				
	Uniformity	0.25℃				
	Sensor	PT100				
Controller		PID				
Display		LCD				
Timer(min)		1-9999				
Material	Internal	Stainless steel				
	External	Electro-galvanized steel with antimicrobial powder coating				
Shelves		2				
Test Hole (mm)		Optional Ø25, 50, 80				
Safety Device		Leakage protector / Over- temperature alarm				
Electricity	Power Supply	220V/50Hz				
	Consumption	500W	750W	1050W	1500W	2000W
Size(WxDxH)	Internal (mm)	300x300x270	420x350x350	400x375x470	550x350x520	600x550x570
	External (mm)	590x470x440	710x520x520	540x550x870	840x540x730	890x730x770
Shipping Size (WxDxH) (mm)		710x600x550	810x640x600	670x660x1040	970x740x880	1020x890x930
N.W./G.W. (kg)		30/45	42/55	55/75	70/86	86/100
Optional		1.Independent temperature limiting controller 2.Intelligent LCD procedure temperature controller(Optional USB,RS485/232 and printer)				

Horizontal Pressure Steam Autoclave

CE



ST-H60/80/100



ST-H135/150/185/200/300/450

Description

Horizontal Pressure Steam Autoclave uses saturated steam as the sterilization medium,exhausts the cold air by gravity. So that the saturated steam fully penetrates the surface of the items. By utilizing high-temperature saturated steam under high pressure, it effectively kills all microorganisms and their spores, providing reliable sterilization results. It is considered one of the most effective methods among physical sterilization techniques.

It is widely used in fields such as pharmaceuticals, biotechnology, and laboratories for sterilizing items such as dressing/fabrics, medical instruments, rubber, and liquids.

Advantage

●Multi Safety Features

-Overheat protection: automatically cutting off heating with audible and visual alarming when the autoclave is overheated.

-Interlock safety: preventing from starting a cycle if door is not properly locked or from door opening if the chamber is pressurized.

-Anti-burning protection： automatically cutting off heating with audible and visual indication when the autoclave is lack of water.

-Steam pressure safety valve: automatically works when the chamber pressure exceeds the limit.

●Electrical circuit safety device for over-current and shortcut protection.

●Automatic operation of sterilization (heating, sterilization, steam discharge and drying) can be easily set and monitored by the LCD touch screen.

●Built-in steam generator prevents the media from contamination.

●Buzzer for working errors and the end of the cycle.

●Automatic atmospheric pressure adjustment for the installation and operation in plateau areas.

●Standard printer.Optional real-time record sterilization process, error and alarm information.

Specification

Model	ST-H60	ST-H80	ST-H100	ST-H135	ST-H150	ST-H185	ST-H200	ST-H300	ST-H450
Capacity	60L	80L	100L	135L	150L	185L	200L	300L	450L
External Size(W*D*H)	985x600x1450mm	985x600x1450mm	1200x600x1450mm	1000x710x1550mm	1330x710x1550mm	1250x710x1550mm	1320x710x1550mm	1350x900x1750mm	1750x900x1750mm
Chamber Size(Ø*H)	Φ386x500mm	Φ386x700mm	Φ386x950mm	Φ500x700mm	Φ500x780mm	Φ500x950mm	Φ500x1000mm	Φ650x950mm	Φ650x1360mm
Chamber Material	SUS304								
Sterilization Temperature	105~136 ℃								
Designed Temperature	150℃								
Max.Working Temperature	136 ℃								
Temp.Accuracy	0.1℃								
Temp. Uniformity	≤±0.5℃								
Designed Pressure	0.3Mpa								
Sterilization Pressure	0.23Mpa								
Temp. Controller	PID control by microprocessor								
Display	LCD touch screen								
Drying Function	YES								
Drying Time	15min								
Sterilization Program	●Dressings/Fabric program ●Medical instrument program ●Rubber program ●Liquid program ●DIY program								
Consumption	5.7KW	5.7KW	6KW	9.35KW	9.35KW	10.8KW	10.8KW	12KW	20KW
Power Supply	380V 50Hz	380V 50Hz	380V 50Hz	380V 50Hz	380V 50Hz	380V 50Hz	380V 50Hz	380V 50Hz	380V 50Hz
Standard Sterilization Shelf	1pcs	1pcs	1pcs	1pcs	1pcs	1pcs	1pcs	1pcs	1pcs
Standard Accessory	Printer								
Net Weight	105kg	120kg	140kg	225kg	240kg	255kg	265kg	350kg	450kg
Gross Weight	165kg	185kg	210kg	315kg	340kg	365kg	380kg	470kg	570kg
Shipping Size(W*D*H)	1280×700×1600mm	1280×700×1600mm	1450×700×1600mm	1300×850×1900mm	1400×900×1900mm	1440×930×2020mm	1440×930×2020mm	1650×1100×2120mm	2100×1100×2120mm

BAWERS MEDICAL EQUIPMENT

Horizontal Pressure Steam Autoclave

Horizontal Pulse Vacuum Autoclave

CE



Description

Horizontal Pulse Vacuum Autoclave uses saturated steam as the sterilization medium. Through the pulsating vacuum method, the saturated steam fully penetrates the surface of the items. By utilizing high-temperature saturated steam under high pressure, it effectively kills all microorganisms and their spores, providing reliable sterilization results. It is considered the most effective method among physical sterilization techniques.

It is widely used in fields such as pharmaceuticals, biotechnology, and laboratories for sterilizing items such as dressing/fabrics, medical instruments, lumen instruments, rubber, and liquids.

Advantage

●Multi Safety Features

Overheat protection: automatically cutting off heating with audible and visual alarming when the autoclave is overheated.

Interlock safety: preventing from starting a cycle if door is not properly locked or from door opening if the chamber is pressurized.

Anti-burning protection： automatically cutting off heating with audible and visual indication when the autoclave is lack of water.

Steam pressure safety valve: automatically works when the chamber pressure exceeds the limit.

●Automatic operation from sterilization to drying (Pre-vacuum sequence, heating, sterilization, steam discharge and post-vacuum drying) can be easily set and monitored by LCD touch screen.

●Built-in vacuum pump provides 3-time pulsed vacuum process,extracting the air out of the medical dressing and the A degree hollow medical instrument efficiently.

●Built-in steam generator prevents the media from contamination.

●Post-vacuum drying function offers efficient drying results.

●Positive pulsing function removes the air efficiently.

●With 0.22μm air filter, blocks all microorganisms from exiting the chamber during the air removal phase.

●Standard printer.Optional real-time record sterilization process, error and alarm information.

BAWERS MEDICAL EQUIPMENT

Specification

Model	ST-H60PV	ST-H80PV	ST-H100PV	ST-H135PV	ST-H150PV	ST-H185PV	ST-H200PV	ST-H300PV	ST-H450PV
Capacity	60L	80L	100L	135L	150L	185L	200L	300L	450L
External Size(W*D*H)	985x600x1450mm	985x600x1450mm	1200x600x1450mm	1000x710x1550mm	1330x710x1550mm	1250x710x1550mm	1320x710x1550mm	1350x900x1750mm	1750x900x1750mm
Chamber Size(Ø*H)	Φ386x500mm	Φ386x700mm	Φ386x950mm	Φ500x700mm	Φ500x780mm	Φ500x950mm	Φ500x1000mm	Φ650x950mm	Φ650x1360mm
Chamber Material	SUS304								
Sterilization Temperature	105~136 ℃								
Designed Temperature	150℃								
Max.Working Temperature	136 ℃								
Temp.Accuracy	0.1℃								
Temp. Uniformity	≤±0.5℃								
Designed Pressure	-0.1/0.3Mpa								
Sterilization Pressure	0.23Mpa								
Pressure Resoluiton	0.1KPa								
Ultimate Vacuum	-0.096MPa								
Temp. Controller	PID control by microprocessor								
Display	LCD touch screen								
Drying Function	YES								
Drying Time	15min								
Sterilization Program	●Medical instrument program ●Luminal instruments ●Dressings program ●Rubber program ●Liquid program ●BD Test program ●Vacuum Test progrm ●4 pcs DIY progrm								
Consumption	5.7KW	56.6KW	6.6KW	12KW	12KW	12KW	12KW	20KW	20KW
Power Supply	380V 50Hz	380V 50Hz	380V 50Hz	380V 50Hz	380V 50Hz	380V 50Hz	380V 50Hz	380V 50Hz	380V 50Hz
Standard Sterilization Shelf	1pcs	1pcs	1pcs	1pcs	1pcs	1pcs	1pcs	1pcs	1pcs
Standard Accessory	Printer								
Net Weight	105kg	120kg	140kg	225kg	240kg	255kg	265kg	350kg	480kg
Gross Weight	165kg	185kg	210kg	315kg	340kg	355kg	380kg	470kg	570kg
Shipping Size(W*D*H)	1280×700×1600mm	1280×700×1600mm	1450×700×1600mm	1300×850×1900mm	1400×900×1900mm	1440×930×2020mm	1440×930×2020mm	1650×1100×2120mm	2100×1100×2120mm

Horizontal Pulse Vacuum Autoclave

CE



ST-H60PVI ST-H80PVI ST-H100PVI



ST-H135PVI ST-H185PVI ST-H300PVI

BAWERS MEDICAL EQUIPMENT

Description

The ST-HPVI series cabinet-type pulsating vacuum sterilizer utilizes saturated steam as the sterilization medium. Through pulsating vacuum, the saturated steam completely penetrates the surface of the items, using high temperature and pressure to kill all microorganisms and their spores. The sterilization effect is reliable, making it the most effective method in physical sterilization. It is widely used in pharmaceuticals, biotechnology, laboratories, and other fields to sterilize items such as fabrics, sterile clothing, instruments, tools, luminal instruments, rubber, liquids, and culture media.

Advantage

1. Using microcomputer control technology and touch screen operation, the entire process (pulse vacuum, heating, sterilization, exhaust, vacuum drying) runs automatically.

2.The touch screen automatically displays the running process status, temperature, pressure, time, and other parameters, as well as fault alarm information.

3.There are four sterilization programs available for instruments, dressings, luminal instruments, rubber, liquids, and custom options, as well as BD testing and vacuum testing programs for users to choose from.

4.The built-in vacuum pump allows for three pulsating vacuums (adjustable), with a vacuum degree of up to -0.090 MPa, which can completely remove air from dressings and Class A luminal instruments.

5.The built-in efficient steam generator can quickly generate constant-pressure steam without contaminating sterilized items.

6.The vacuum drying system ensures fabric drying below 1% and instrument drying below 0.1%.

7.A 0.22μm bacterial air filter is included to ensure that the air introduced after breaking the vacuum is sterile, avoiding recontamination.

8.An optional mini printer can be selected to record real-time sterilization processes and fault alarm information.

9.Automatic calibration of atmospheric pressure is available to avoid high-altitude reactions.

Safety Function

Over-temperature protection device: When the temperature of the pot exceeds the set temperature, the system automatically cuts off the heating power and displays an alarm.

Door safety interlock device: The program can only start when the door is closed properly; the door cannot be opened when there is dangerous pressure in the inner chamber.

Dual overpressure protection: Automatic pressure relief safety valve, when the pressure exceeds the design pressure, the safety valve opens to release the pressure; automatic overpressure protection control, when the pressure exceeds the set pressure, automatic steam discharge and pressure relief, and displays an alarm.

Low water level alarm device: When the water level is below the specified level, the heating is automatically cut off and an alarm is displayed.

Specification

Model	ST-H60PVI	ST-H80PVI	ST-H100PVI	ST-H135PVI	ST-H185PVI	ST-H300PVI
Capacity (L)	60	80	100	135	185	300
Chamber Size (Φ ×L)	386×500	386×700	386×950	500×700	500×950	630×1000
External Size (L×W×H)	985×600×1450	985×600×1450	1200×600×1450	1000×710×1550	1250×710×1550	1350×900×1750
Net Weight	105	120	140	225	255	350
Power Supply	380V 50Hz					
Consumption	5.7Kw	5.7Kw	6Kw	9.35Kw	10.8Kw	12Kw
Design Pressure	-0.1/0.3MPa					
Ultimate vacuum	-0.096MPa					
Sterilizing Temp.	105~136℃					
Max Temp.	136℃					
Chamber Material	SUS304 stainless steel					
Rated Working Pressure	0.23Mpa					
Pressure Display Accuracy	0.1KPa					
Temp. Display Accuracy	0.1℃					
Temp. Uniformity	≤±0.5℃					

H2O2 Plasma Sterilizer

(Hydrogen Peroxide low temperature Plasma Sterilizer)

CE

Description

Low temperature hydrogen peroxide plasma sterilizers are used for sterilizing heat-sensitive medical devices, dental equipment, laboratory equipment, pharmaceuticals, veterinary instruments, and beauty industry tools. They provide safe and effective sterilization while preserving delicate materials.





Technical Advantage

- Low temperature sterilization at 50℃±5℃, preserving delicate items without damage.
- Green and pollution-free process using hydrogen peroxide solution, no toxic substances or pollution.
- Stable sterilization with balanced temperature and stable hydrogen peroxide concentration.
- Efficient design with rectangular sterilization chamber for increased loading capacity.
- Safe and stable operation with electric lift door and safety interlock device.
- Simple operation with intelligent control processor and one-key start.
- Configured with high-quality components for reliable performance.
- Time and cost-saving with short sterilization cycle and low operating costs.
- Equipped with sterile filter for air inlet to prevent secondary pollution.
- U disk storage function for storing and recording sterilization data.

Model Advantage

- High-quality 5052 aluminum material for sterilization room, with excellent thermal conductivity.
- ABS plastic disposable outer box material.
- Aluminum alloy electrode mesh and sealing door material.

- Upper and lower layers of aluminum alloy punching plates for loading sterilized items.
- Electric lifting door with infrared sensor switch and door anti-pinch function.
- Preheating heating time of ≤30 minutes.
- Electric lifting door with infrared sensor switch and door anti-pinch function.
- Preheating heating time of ≤30 minutes.
- Full automatic control system with LCD touch screen display and PLC circuit design.
- Micro-printer for printing and saving data during sterilization.
- Siemens smart series PLC control system.
- 7-inch color touch screen display with various status information.
- Storage function for recording sterilization data.
- Dedicated constant temperature incubator for biological indicator monitoring.
- Built-in pressure and temperature sensors for precise control.
- Two program options for circulation and rapid circulation.
- Network connection port available.
- Vacuum system with fast vacuum rate and long service life.
- Oil mist filter and air filter for exhaust filtration.
- Transistor control power supply for stable power output.
- Cartridge filling method for hydrogen peroxide.
- Explosion-proof flame retardant heating system.
- Over-voltage and over-temperature protection functions.

Specification

Model	ST-HT100P	ST-HT130P	ST-HT220P
Capacity	108L	135L	192L
Door type	Automatic door vertical		
Heating method	Electric heating		
Working temperature	40-60 ℃		
Select sterilizer	58%-60% hydrogen peroxide (H202)		
Sterilization time	35-55 minutes		
Installation environment	10-40℃		
Temperature display	LCD touch screen		
Maximum anti-stress value	10pa		
Operation height	≤160cm		
Power Supply	AC220V, 50Hz		
Consumption	3.5kW	4.2kW	4.8kW
Size(W×D×H) Internal (mm)	700x420x360	750x440x400	820x510x 460
External (mm)	1120x790x1770		
Shipping Size (W×D×H) (mm)	1300x950x1950	1300x950x1950	1300x950x1950
N.W./G.W. (kg)	265/320	272/325	305/360

BAWERS MEDICAL EQUIPMENT

Hydrogen Peroxide Low Temperature Plasma Sterilizer



ST-HT60P



ST-HT100PI/140P/190P

Application

Low temperature hydrogen peroxide plasma sterilizers are used for sterilizing heat-sensitive medical devices, dental equipment, laboratory equipment, pharmaceuticals, veterinary instruments, and beauty industry tools. They provide safe and effective sterilization while preserving delicate materials.

Advantage

- Low temperature sterilization at 50℃±5℃, preserving delicate items without damage.
- Green and pollution-free process using hydrogen peroxide solution, no toxic substances or pollution.
- Stable sterilization with balanced temperature and stable hydrogen peroxide concentration.
- Efficient design with rectangular sterilization chamber for increased loading capacity.
- Safe and stable operation with electric lift door and safety interlock device.
- Simple operation with intelligent control processor and one-key start.
- Configured with high-quality components for reliable performance.
- Time and cost-saving with short sterilization cycle and low operating costs.
- Equipped with sterile filter for air inlet to prevent secondary pollution.
- U disk storage function for storing and recording sterilization data.

Description

- High-quality 5052 aluminum material for sterilization room, with excellent thermal conductivity.
- ABS plastic disposable outer box material.
- Aluminum alloy electrode mesh and sealing door material.
- Upper and lower layers of aluminum alloy punching plates for loading sterilized items.
- Electric lifting door with infrared sensor switch and door anti-pinch function.
- Preheating heating time of ≤30 minutes.
- Electric lifting door with infrared sensor switch and door anti-pinch function.
- Preheating heating time of ≤30 minutes.
- Full automatic control system with LCD touch screen display and PLC circuit design.
- Micro-printer for printing and saving data during sterilization.
- Siemens smart series PLC control system.
- 7-inch color touch screen display with various status information.
- Storage function for recording sterilization data.
- Dedicated constant temperature incubator for biological indicator monitoring.
- Built-in pressure and temperature sensors for precise control.
- Two program options for circulation and rapid circulation.
- Network connection port available.
- Vacuum system with fast vacuum rate and long service life.
- Oil mist filter and air filter for exhaust filtration.
- Transistor control power supply for stable power output.
- Cartridge filling method for hydrogen peroxide.
- Explosion-proof flame retardant heating system.
- Over-voltage and over-temperature protection functions

Specification

Model	ST-HT60P	ST-HT100PI	ST-HT140P	ST-HT190P
Chamber Volume	60 L	100L	135L	190L
Construction	5052 Aluminium			
Processing Temperature	45-55°C			
Control System	Siemens PLC			
Display	7 inch Touch Screen			
Printer	Thermal Printer			
Touch Screen Functions	Phase Temperature Date and time Cycle Selected Alert message			
Data Storage	Memory Card			
Total Cycle Time	Short cycle 30 minutes, long cycle 50 minutes, lumen cycle 60 minutes			
Noise	< 60 db			
Door	Manual Automatic			
Alarm	Door Lock Dosing failure Low / High Temp. range Vacuum & Pressure			
Incubator	No Biological Incubator			
Consumption	2.6KW	3.4KW	3.5KW	4.3KW
Power Supply	220V, 50Hz			
Package Size	890*750*1660mm	1270*920*1940mm	1270*920*1940mm	
Gross Weight	230kg	350kg		

BAWERS MEDICAL EQUIPMENT

Portable Autoclave

CE



Electric Heating Mode



Electric or LPG heating type



Digital Display Electric Heating Model

BAWERS
MEDICAL EQUIPMENT

Advantage

- High-quality stainless steel body construction for durability and longevity.
- Self-inflating type seal for effective sealing during operation.
- Electric heating mode for efficient and controlled heating.(For model:ST-P18, ST-P24)
- Dual heating options: electric and gas.(For model:ST-P18B, ST-P24B)
- Automatic release when overpressure occurs, with low water level protection to prevent dry burning.
- Double scale indication pressure gauge for accurate monitoring and measurement.

Specification

Model	ST-P18	ST-P24	ST-P18B	ST-P24B
Capacity	18L	24L	18L	24L
Rated working temperature	126℃			
Rated working pressure	0.142Mpa			
Temp accuracy	±1℃			
Consumption	2.0KW			
Power Supply	220V/110V,50Hz/60Hz			
Chamber Size(mm)	Ø280x295	Ø280x390	Ø280x295	Ø280x390
Shipping Size(W×D×H)(mm)	410x410x560	410x410x680	420x420x430	420x420x540
N.W./G.W. (kg)	16/17	17.5/19	15/16	16/18

Advantage

- Microcomputer control with digital display, adjustable sterilization temperature and time
- All Stainless Steel 304 body construction for durability and longevity.
- Overpressure auto-release for enhanced safety.
- Clear and easy-to-read double-scale pressure gauge.
- Self-inflating seal for secure and reliable operation.
- Simple operation with a focus on safety and reliability.

Specification

Model	ST-P18E	ST-P24E
Capacity	18L	24L
Rated working temperature	126℃	
Rated working pressure	0.142Mpa	
Temp accuracy	±1℃	
Consumption	2.0KW	
Power Supply	220V/110V,50Hz/60Hz	
Chamber Size(mm)	Ø280x295	Ø280x390
Shipping Size(W×D×H)(mm)	420x420x560	420x420x680
N.W./G.W. (kg)	17/18	17.5/19

Plasma Air Sterilizer

CE



ST-PAB600、ST-PAB1000



ST-PAY600、ST-PAY1000I、ST-PAY1300



ST-PAY1000

BAWERS
MEDICAL EQUIPMENT

Application

Medical Plasma Disinfection Machine with air filtration purification function, through filtering, adsorption or removal of harmful substances in the air, such as smoke, dust, pollen,odor, formaldehyde, so as to improve the air quality. Colleagues use disinfection modules(mainly plasma generators and ultraviolet rays) to kill harmful substances such as bacteria and viruses in the air, thereby making the air more hygienic and ensuring healthy breathing.

Advantage

1.Broad spectrum sterilization: can kill a variety of bacteria, viruses and spores in the air;

2.Killing rate of Staphylococcus albus≥99.99%;

3.Air particulate matter filtration≥99.99%;

4.Killing rate of human coronavirus≥99.99%;

5.Can be run in the state of someone, without any harm to the human body.

6.Three speed wind speed: three speed wind speed adjustment, according to the use of free choice.

7.Touch control: LCD screen real-time dynamic display, touch key operation control;

8.One key lock: one key touch lock, prevent misoperation;

9.Sterilization module fault alarm function;

10.Microcomputer program control, can set 9 groups of booking time.

Specification

Model	ST-PAB600	ST-PAB1000	ST-PAY1000	ST-PAY600	ST-PAY1000I	ST-PAY1300
Working Time	260 mins					
Applicable Environmental Range	≤60m³	≤100m³	≤100m³	≤60m³	≤100m³	≤130m³
Plasma/UV Intensity	8KV					
Rated Air Volume	60m³	100m³	100m³	60m³	100m³	130m³
Power	90	110	170	110	140	180
Power Supply	AC220V,50/60Hz;110V,60Hz					
Dimensions(W×D×H)(mm)	90x360x160	990x360x160	375x370x835	315x425x825	315x425x825	315x425x825
Shipping size(W×D×H)(mm)	1100×450×250	1100×450×250	420×520×930	460×460×920	460×460×920	560x560x1100
N.W.(KG)	21	21	27	27	27	27

Class B Table Top Autoclave

Application

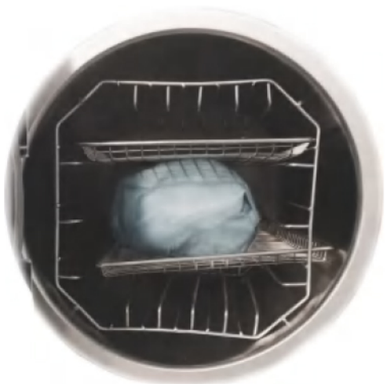
Pre-vacuum rapid pressure steam sterilizer is suitable for medical dressings, biological products, instruments and vessels, sterile clothing, waste, moisture and heat-resistant instruments or items with high sterilization requirements, as well as dentistry, ophthalmology, operating rooms, supply rooms, dialysis Sterilization of packaged or unpackaged solid instruments, Class A cavity instruments (dental handpieces, endoscopes), implantable instruments, dressing fabrics, rubber catheters and other items in medical and health departments such as rooms and delivery rooms.



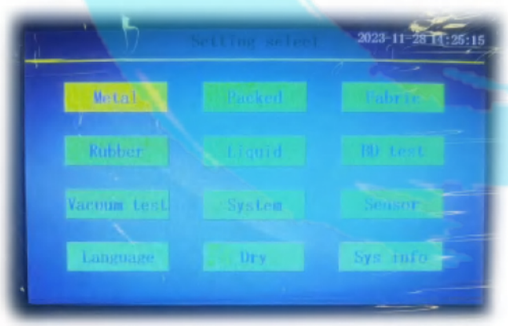
ST-PV24B



ST-PV45B



304 corrosion-resistant stainless steel material



LCD touch screen

Class B Benchtop Autoclave

Description

It is a sterilization equipment that fully complies with CSSD and GMP specifications. The steam sterilizer uses vacuum to form a negative pressure in the sterilization cabinet and extracts cold air so that the saturated steam can quickly penetrate inside the items for sterilization.

Advantage

1.Complies with European Class B standard for effective sterilization.

2.Automatic door switch for convenient and safe operation for ST-PV24B.Automatic door for ST-PV45B.

3.Microprocessor control.

4.LCD touch screen，graphical and digital display of all the operating status of each function，such as heating, pressure relief, exhaust, power off.

5.Automatic water filling，Automatic hydration.

6.Drying function.

7.Standard accessory: USB Port,Thermal Printer.

Safety protection

Automatic fault diagnosis

Automatic over-temperature protection

Over-pressure protection

Specification

Model	ST-PV24B	ST-PV45B
Capacity	23L	45L
Chamber Size	Φ246X450	Φ320x620mm
External Sizes (WxDxH)(mm)	715X513X425	900x565x600
Working Temperature	5C-40C	
Sterilization Temperature	134℃/121℃	
Sterilization Pressure	0.25Mpa	
Chamber Material	304 corrosion-resistant stainless steel material	
Strilization Mode	Exposed instruments,Packaged instruments, Fabric hollow, Rubber products, BD testing, Vacuum testing	
Drying Mode	Powerful vacuum drying, suitable for drying different items; residual moisture in equipment <0.2%, residual moisture in dressings <1%.	
Display	LCD touch screen	
Capacty for Water Tank	2L	6L
Water consumption	0.5-1L	0.8-1.5L
Displacement	0.5-1L	0.8-1.5L
Consumption	1.7KW	3.5KW
Power Supply	220/110V,50/60Hz	
Gross weight	49KG	108kg
Shipping Size (W×D×H)	830x600x530mm	1050x700x800mm

Vertical Pulse Vacuum Steam Autoclave, ST-VPVM series



Advantage

- Hand wheel translation and quick opening structure
- Three times Pre-Vacuum
- High quality stainless steel material
- Microcomputer automatic control, arbitrary setting
- Sterilization parameters
- LED touch screen display
- Standard test interface
- Self-expanding seal
- With drying function
- Safety interlocking device
- With stainless steel bucket or basket
- With automatic protection function:over temperature protection; over pressure self discharge protection ;low water level protection; anti dry burning.
- Automatic water
- External steam Generator
- Buzzer reminder after sterilization, automatic stop.
- Automatic discharge of cold air, automatic steam exhaust after sterilization
- Internal printer

Specification

Model	ST-V35PVM	ST-V50PVM	ST-V75PVM	ST-V100PVM
Capacity	35L	50L	75L	100L
Consumption	3.5kW	3.5kW	4.5kW	4.5kW
Power Supply	AC 220V、50HZ			
Design pressure	0.25Mpa			
Design temperature	139℃			
Rated working pressure	0.22Mpa			
Rated working temperature	134℃			
Sterilization temperature	116℃~134℃			
Sterilization time setting range	4~120 min			
Temp accuracy	±1℃			
Drying time setting range	0~240min			
Chamber Size (mm)	Ø350×400	Ø400×505	Ø400×655	Ø450×650
Bucket Size	Ø330×320	Ø380×430	Ø380×560	Ø420×540
Basket Size(optional)	Ø320×350	Ø360×280×1	Ø360×280×2	Ø410×300×2
External Size(W×D×H)(mm)	698×498×940	630×500×1180	725×525×1180	760×560×1260
Shipping Size (W×D×H)(mm)	790x610x1130	800x600x1230	840x610x1310	870x650x1380
N.W./G.W. (kg)	115/130	118/138	124/150	132/160

Horizontal Pressure Steam Autoclave



Application

The autoclave is suitable for hospital, scientific research institute and other units to sterilize asepsis clothes, tools, ulture medium and so on.

Advantage

- Horizontal circular inner chamber and jacket structure for safety, heat preservation, and drying function.
- Control system featuring HMI man-machine interface, touch screen, and microcomputer for intuitive operation.
- Disc type embedded gear and Electric lock door structure for reliable and secure operation.
- Self-expanding door seals for effective sealing.
- Equipped with a standard equipment verification interface for easy calibration and validation.
- Optimal design pipeline system with SUS 304 pipeline and clamp structure for quick assembly.
- FO value and temperature-time double guarantee sterilization effect, with comprehensive sterilization records.
- Multiple safety protections including over-temperature and over-pressure protection.
- Built-in printer & USB function.

Specification

Model	ST-H150I	ST-H200I	ST-H300I	ST-H400I
Capacity(L)	150	200	300	400
Chamber Size((Ø*L)mm	Ø472x880	Ø472x1150	Ø620x995	Ø620x1320
Chamber Material	304 Stainless Steel			
Design pressure	-0.1~0.25Mpa			
Design temperature	139℃			
Working pressure	0.225Mpa			
Working Temperature	105-136℃			
Vacuum	-0.086Mpa			
Temp accuracy	±1℃			
Temperature Equilibrium	<+2.0℃			
Compressed air pressure	0.4~0.7Mpa			
Steam Pressure	0.3-0.7Mpa			
Drying Function	Double door/Single door			
Printer	YES			
Door	Built-in Printer			
USB Port	YES			
Steam Consumption(KG)	≤12	≤13	≤18	≤22
Water Consumption(KG)	≤30	≤30	≤40	≤40
Consumption(KW)	≤2			
Power Supply	Three-phase five-wire AC 380V 50Hz			
External Sizes (WxDxH)(mm)	1290x690x1680	1560x690x1680	1430x850x1760	1755x850x1760
Shipping Size(WxDxH)(mm)	1570x840x1850	1740x840x1850	1610x990x1900	1935x990x1900
N.W./G.W. (kg)	400/500	450/550	510/610	650/750

BAWERS MEDICAL EQUIPMENT

Vertical Pressure Steam Autoclave

LED Display,Built-in Water Tank

Application

The Vertical Autoclave is a small type automatic, high-temperature and high-pressure sterilization device that using pressure steam as the medium. It is suitable for various levels of biological research institutions such as biological laboratories. It is used for sterilizing items such as fabrics, instruments, rubber, liquids, culture medium and waste materials.





Pressure gauge



Standard SS Basket

Description

●Multi Safety Features

Overheat protection： automatically cutting off heating with audible and visual indication when the autoclave is overheated.

Anti-burning protection： automatically cutting off heating with audible and visual indication when the autoclave is lack of water.

Interlock safety: preventing from starting a cycle if door is not properly closed or from door opening if there is pressure inside chamber.

Steam pressure safety valve: automatically works when the chamber pressure exceeds the limit.

●Automatic operation of sterilization with PID microprocessor control and LED display.

●Positive pulsing function removes the air efficiently.

●Automatic air discharge control prevents boil over of liquids and explosions of bottles.

●With Power-off memory function.

●Standard Printer (thermal).

Specification

Model	ST-V50	ST-V80	ST-V100	ST-V120	ST-V150
Capacity	50L	80L	100L	120L	150L
External Size(W*D*H)	476x616x990mm	546x688x1030mm	566x708x1295mm	620x760x1190mm	680x820x1180mm
Chamber Size(Ø*H)	Φ316x667mm	Φ386x695mm	Φ400x800mm	Φ450x760mm	Φ500x780mm
Chamber Material	SUS304				
Sterilization Temperature	105~136 ℃				
Designed Temperature	150℃				
Max.Working Temperature	136 ℃				
Dissolution Temperature	40~100℃				
Warming Temperature	40~60℃				
Temp.Accuracy	0.1℃				
Designed Pressure	0.3Mpa				
Max.Sterilization Pressure	0.23Mpa				
Sterilization Time range	0~99min				
Temp. Controller	PID control by microprocessor				
Display	LED display				
Drying Function	YES				
Drying Time	15min				
Sterilization Program	●High temperature instrument program				
	●Low temperature instrument program				
	●Culture medium sterilization warming program				
	●Culture medium dissolution warming program				
Water Injection method	Built-in water tank				
Consumption	3KW	4.5KW	5.4KW	5.4KW	9.3KW
Power Supply	220V 50Hz	220V 50Hz	220V 50Hz	380V 50Hz	380V 50Hz
Standard SS Basket	2pcs	2pcs	2pcs	2pcs	2pcs
Net Weight	68kg	92kg	100kg	175kg	195kg
Gross Weight	103kg	127kg	140kg	215kg	235kg
Shipping Size(W*D*H)	730x820x1250	800x880x1300	800x880x1480	950x1050x1280	950x1050x1440

BAWEN MEDICAL EQUIPMENT

Vertical Pressure Steam Autoclave

LCD Display,Built-in Water Tank

Application

Porous load: fabric, sterile clothing, wrapped equipment, filter element, rubber, etc.

Hard load: tools, lumen instruments, glassware, metal containers, etc.

Liquid load: non-sealed liquids such as culture media





Pressure gauge



Standard SS Basket

Description

●Multi Safety Features

-Overheat protection： automatically cutting off heating with audible and visual indication when the autoclave is overheated.

-Anti-burning protection： automatically cutting off heating with audible and visual indication when the autoclave is lack of water.

-Interlock safety: preventing from starting a cycle if door is not properly closed or from door opening if there is pressure inside chamber.

-Steam pressure safety valve: automatically works when the chamber pressure exceeds the limit.

●Automatic operation of sterilization with PID microprocessor control and LCD display.

●Positive pulsing function removes the air efficiently.

●Liquid program with automatic pressure control prevents boil over of liquids and explosions of bottles or bags.

●With Power-off memory function.

●Internal water tank with steam-water internal circulation.

●Standard printer, real-time record sterilization process,error and alarm information.

Specification

Model	ST-V50A	ST-V80A	ST-V100A	ST-V120A	ST-V150A
Capacity	50L	80L	100L	120L	150L
External Size(W*D*H)	476x616x990mm	546x688x1030mm	566x708x1295mm	620x760x1190mm	680x820x1180mm
Chamber Size(Ø*H)	Φ316x667mm	Φ386x695mm	Φ400x800mm	Φ450x760mm	Φ500x780mm
Chamber Material	SUS304				
Sterilization Temperature	105~136 ℃				
Designed Temperature	150℃				
Max.Working Temperature	136 ℃				
Dissolution Temperature	40~100℃				
Warming Temperature	40~60℃				
Temp.Accuracy	0.1℃				
Designed Pressure	0.3Mpa				
Max.Sterilization Pressure	0.23Mpa				
Sterilization Time range	0~99min				
Display	LCD touch screen				
Drying Function	YES				
Drying Time	15min				
Sterilization Program	●Dressings/Fabric program ●Tools program ●Rubber program ●Culture medium sterilization warming program ●Culture medium dissolution warming program ●Liquids in closed containers (glass bottle, plastic bottle and bag) program ●Waste program				
Water Injection method	Built-in water tank				
Consumption	3KW	4.5KW	5.4KW	5.4KW	9.3KW
Power Supply	220V 50Hz	220V 50Hz	220V 50Hz	380V 50Hz	380V 50Hz
Standard SS Basket	2pcs	2pcs	2pcs	2pcs	2pcs
Optional Accessory	Printer, USB port				
Net Weight	68kg	92kg	100kg	175kg	195kg
Gross Weight	103kg	127kg	140kg	215kg	235kg
Shipping Size(W*D*H)	730x820x1250	800x880x1300	800x880x1480	950x1050x1280	950x1050x1440

BAWERS MEDICAL EQUIPMENT

Vertical Pressure Steam Autoclave

LED Display,Built-in Water Tank

Application

The Vertical Autoclave is a small type automatic, high-tem-perature and high-pressure sterilization device that using pressure steam as the medium. It is suitable for various levels of biological research institutions such as biological laboratories. It is used for sterilizing items such as fabrics, instruments, rubber, liquids, culture medium and waste materials.





Pressure gauge



Standard SS Basket

Description

●Multi Safety Features

-Overheat protection： automatically cutting off heating with audible and visual indication when the autoclave is overheated.

-Anti-burning protection： automatically cutting off heating with audible and visual indication when the autoclave is lack of water.

-Interlock safety: preventing from starting a cycle if door is not properly closed or from door opening if there is pressure inside chamber.

-Steam pressure safety valve: automatically works when the chamber pressure exceeds the limit.

●Automatic operation of sterilization with PID microprocessor control and LED display.

●Positive pulsing function removes the air efficiently.

●Automatic air discharge control prevents boil over of liquids and explosions of bottles

●With Power-off memory function.

Specification

Model	ST-V50E	ST-V80E	ST-V100E	ST-V120E	ST-V150E
Capacity	50L	80L	100L	120L	150L
External Size(W*D*H)	476x616x990mm	546x688x1030mm	566x708x1295mm	620x760x1190mm	680x820x1180mm
Chamber Size(Ø*H)	Φ316x667mm	Φ386x695mm	Φ400x800mm	Φ450x760mm	Φ500x780mm
Chamber Material	SUS304				
Sterilization Temperature	105~136 ℃				
Designed Temperature	150℃				
Max.Working Temperature	136 ℃				
Dissolution Temperature	40~100℃				
Warming Temperature	40~60℃				
Temp.Accuracy	0.1℃				
Designed Pressure	0.3Mpa				
Max.Sterilization Pressure	0.23Mpa				
Sterilization Time range	0~99min				
Temp. Controller	PID control by microprocessor				
Display	LED display				
Drying Function	YES				
Drying Time	15min				
Sterilization Program	●High temperature instrument program ●Low temperature instrument program ●Culture medium sterilization warming program ●Culture medium dissolution warming program				
Water Injection method	Manual				
Consumption	3KW	4.5KW	5.4KW	5.4KW	9.3KW
Power Supply	220V 50Hz	220V 50Hz	220V 50Hz	380V 50Hz	380V 50Hz
Standard SS Basket	2pcs	2pcs	2pcs	2pcs	2pcs
Net Weight	55kg	65kg	80kg	165kg	185kg
Gross Weight	90kg	100kg	120kg	205kg	225kg
Shipping Size(W*D*H)	730x700x1250	800x770x1300	800x770x1480	950x900x1280	950x900x1440

BAWERS MEDICAL EQUIPMENT

Vertical Pressure Steam Autoclave

Vertical Pulse Vacuum Autoclave

Application

Porous load: fabric, sterile clothing, wrapped equipment, filter element, rubber, etc.

Hard load: tools, lumen instruments, glassware, metal containers, etc.





Pressure gauge



Standard SS Basket

Description

Automatic operation from sterilization to drying (Pre-vacuum sequence, heating, sterilization, steam discharge and post-vacuum drying) can be easily set and monitored by the LCD touch screen

Built-in vacuum pump provides 3-time pulsed vacuum process,extracting the air out of the medical dressing and the Class A hollow medical instrument efficiently.

- Built-in steam generator prevents the media from contamination.
- Post-vacuum drying function offers efficient drying results.
- Positive pulsing function removes the air efficiently.
- With 0.22μm air filter, blocks all microorganisms from exiting the chamber during the air removal phase.
- Standard built-in printer.Optional real-time record sterilization process, error and alarm information.

Specification

Model	ST-V50PV	ST-V80PV	ST-V100PV	ST-V120PV	ST-V150PV
Capacity	50L	80L	100L	120L	150L
External Size(W*D*H)	476x636x990mm	636x710x1030mm	630x710x1295mm	620x780x1190mm	680x820x1180mm
Chamber Size(Ø*H)	Φ316x667mm	Φ386x695mm	Φ386x860mm	Φ450x760mm	Φ500x780mm
Chamber Material	SUS304				
Sterilization Temperature	105~136 ℃				
Designed Temperature	150℃				
Max.Working Temperature	136 ℃				
Dissolution Temperature	40~100℃				
Warming Temperature	40~60℃				
Temp.Accuracy	0.1℃				
Temp. Uniformity	≤±0.5℃				
Designed Pressure	0.3Mpa				
Max.Sterilization Pressure	0.23Mpa				
Ultimate Vacuum	-0.096MPa				
Sterilization Time range	0~99min				
Temp. Controller	PID control by microprocessor				
Display	LCD touch screen				
Drying Function	YES				
Drying Time	15min				
Sterilization Program	●Medical instrument program ●Luminal instruments ●Dressings/Fabric program ●Rubber program ●Liquid program ●BD Test program ●Vacuum Test progrm ●4 pcs DIY programs				
Water Injection method	Built-in water tank				
Consumption	3KW	4.5KW	5.4KW	7.2KW	9.3KW
Power Supply	220V 50Hz	220V 50Hz	220V 50Hz	380V 50Hz	380V 50Hz
Standard SS Basket	2pcs	2pcs	2pcs	2pcs	2pcs
Optional Accessory	Printer, USB port				
Net Weight	85kg	95kg	112kg	180kg	210kg
Gross Weight	120kg	130kg	152kg	220kg	250kg
Shipping Size(W*D*H)	830x840x1250	880x910x1300	800x880x1550	1030x1050x1300	1030x1050x1450

BAWERS MEDICAL EQUIPMENT

Vertical Pressure Steam Autoclave





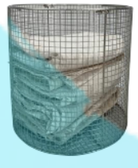
5-inch Color Touch Screen



Hand Wheel Structure



Basket



Basket

Description

The vertical sterilizer is a safe, reliable and automatically controlled sterilization equipment, consisting of a heating system, a micro-computer control system, an automatic overheating and an overheating and overpressure protection system. The container has the advantages of reliable sterilization effect, easy operation, safe use, energy saving, durability and low price. It is suitable for pharmaceutical, medical, scientific research and other industries to sterilize equipment, medical dressings, utensils, liquids, culture media, waste and other items.

Performance feature

- Inner tank made of high-quality stainless steel
- Self-expanding seal
- Metal power switch, metal handwheel
- Water cutoff protection control
- Safety interlocking device.
- Buzzer reminds automatic shutdown after sterilization is completed
- Computer controlled automatic cycle and arbitrarily set sterilization program
- USB communication socket, built-in mobile probe (for various program modes such as open liquid, culture medium, etc.)
- 5-inch color touch screen
- Built-in water tank and quick-release filter for easy maintenance and cleaning.
- Double automatic protection function for over-temperature and over-pressure.
- The internal circulation system of steam and water is equipped with an exhaust cooling system, which can avoid the generation of aerosols ,does not discharge steam to the outside, and the environment is clean and dry
- Sensor failure alarm
- Optional reverse pressure quick cooling function
- Pressure module overpressure alarm protection.

Specification

Model	ST-VGA50	ST-VGA80	ST-VGA100	ST-VG50	ST-VG80	ST-VG100	ST-VG120
Chamber Size(Ø*H)	Ø386*515	Ø386*695	Ø386*875	Ø386*515	Ø386*695	Ø386*875	Ø386*1054
Capacity(L)	60	80	100	60	80	100	120
Consumption	4.6VA	6.1VA	7.3VA	3.6VA	5.1VA	6.1VA	6.1VA
Temperature(℃)	121℃-134℃						
Highest working pressure	0.25Mpa						
Temp.Accuracy	0.5℃						
Design pressure	0.28~0.3Mpa						
Ambient temperature	5℃~40℃						
Relative humidity	≤85%						
Atmospheric pressure	70kpa~106kpa						
Power supply	AC 220V ± 22V, 50Hz ± 1Hz						

BAWERS MEDICAL EQUIPMENT

Vertical Pressure Steam Autoclave





Microcomputor Control



SUS304 Chamber



Vertical Flip Door



Gasket Door



Cooling Fan

Control Feature

1.Microcomputer fully automated control sterilization process.

The status flowchart displays the current sterilization process, allowing for easy visual access to the current running steps at any time.

2.Multiple Sterilization Modes.

With liquid, solid, agar, instruments, etc.More than five sterilization modes, expandable memory store 80 sterilization programs.

Mechanical Feature

1.Vertical flip cover structure.

Easy to open, and automatic locking upon downward pressure, with lock status determined based on indicator light prompts.

2.Electromagnetic suction type 6/8 claw mechanical interlock.

Electromagnetic suction type 6/8 claw mechanical interlock, with 6/8 claws installed on the top cover. The sealing rubber strip is evenly stressed, ensuring a secure and reliable seal. The operating surface is clean, providing a smooth loading and unloading experience without any obstacles.

3.Dovetail type sealing groove.

Dovetail type sealing groove, self-expanding medical grade silicone molded sealing ring, corrosion-resistant and high-temperature resistant, can prevent accidents caused by high-temperature opening operations, providing a safer and more secure seal.

4.Dual air convection rapid cooling fan

Dual air convection rapid cooling fan, automatically activates after default sterilization for temperature reduction, adjustable cooling lid opening temperature, lid cannot be opened if temperature is not reached.

5.Multi-stage exhaust

Built-in steam collection box, utilizing multi-stage exhaust, without impacting the surrounding environment.

Safety Features

1.Safety interlocking device:Equipped with a high-temperature and high-pressure interlocking protection system, which automatically detects and ensures that the chamber cover is closed in place before the work procedure can be started.

1.Anti-dry burning alarm:system automatically stops working when water level is lower than the minimum water level;system directly cuts off the power supply when the water level is lower than the heating tube

2.Over temperature protection,Over pressure protection

3.Electrical safety protection:Leakage, over current, and short circuit protection functions

Optional Accessory

1.Large capacity water tank with automatic water replenishment, fully automatic internal circulation.

2.Thermosensitive or needle-type miniature printer or recorder.

3.USB data storage device for recording sterilization cycles and sterilization data.

4.Threaded sealing interface for 3Q validation.

5.JUMO mobile probe.

6.High-efficiency filtration device.

Specification

Model	ST-VL65	ST-VL80	ST-VL90	ST-VL110
Capacity	62L	80L	88L	110L
External Size(mm)	550W×640L×900H		550W×640L×1150H	
Weight	72kg	82kg	85kg	95kg
Internal Size	φ365×484H	φ414×484H	φ365×734H	φ414×734H
Chamber Material	SUS304 Stainless steel			
Power Supply	AC 220V 50Hz 16A			
Consumption	4000W			
Sterilization Temperature/Time	115-138°C Continuously adjustable，0-9999 minute countdown display			
Dissolution Temperature/Time	60-100°C continuously adjustable/0-9999 minutes countdown display			
Holding Temperature/Time Preset Range	45-80°C adjustable/300 minutes			
Unlock Temperature	60-95°C can be set (default 80°C)			
Verification Interface	Reserved pressure and temperature pipe thread verification interface			
Temp. Controller	Using PT100AA^ temperature sensor, with a resolution of 0.1			
Appointment feature	Advanced booking for any time within the next year			
Pressure	0.26Mpa			
Standard Accessory	Mesh basket or tote bag, gloves, and drain hose.			

BAWERS MEDICAL EQUIPMENT

Vertical Pressure Steam Autoclave

Vertical Pressure Steam Sterillzer

CE





5-inch Color Touch Screen

Performance feature

★Inner tank made of high-quality stainless steel

★Self-expanding seal

★Hand wheel translation quick opening structure

★Water cutoff protection control

★Safety interlocking device.

★Buzzer reminds automatic shutdown after sterilization is completed

★Knob control, time relay, temperature controller

★Standard double-layer stainless steel mesh basket

★Over-temperature, over-pressure automatic protection function

★Optional drying system, gas collecting bucket, etc.

★Automatically discharges cold air and automatically discharges steam after sterilization is completed

★Simple operation, safe and reliable, purely mechanical control, low failure rate



Hand Wheel Structure



Basket



Basket

Description

The vertical sterilizer is a safe, reliable and automatically controlled sterilization equipment, consisting of a heating system, a micro-computer control system, an automatic overheating and an overheating and overpressure protection system. The container has the advantages of reliable sterilization effect, easy operation, safe use, energy saving, durability and low price. It is suitable for pharmaceutical, medical, scientific research and other industries to sterilize equipment, medical dressings, utensils, liquids, culture media, waste and other items.

Specification

Model	ST-VLA50	ST-VLA80	ST-VLA100	ST-VL50	ST-VL80I	ST-VL100	ST-VL120
Chamber Size(Ø*H)	Ø386*515	Ø386*695	Ø386*875	Ø386*515	Ø386*695	Ø386*875	Ø386*1054
Capacity(L)	60	80	100	60	80	100	120
Consumption	4.6VA	6.1VA	7.3VA	3.6VA	5.1VA	6.1VA	6.1VA
Temperature(℃)	121℃-134℃						
Highest working pressure	0.25Mpa						
Temp.Accuracy	0.5℃						
Design pressure	0.28~0.3Mpa						
Ambient temperature	5℃~40℃						
Relative humidity	≤85%						
Atmospheric pressure	70kpa~106kpa						
Power supply	AC 220V ± 22V, 50Hz ± 1Hz						

BAWERS
MEDICAL EQUIPMENT

Vertical Pressure Steam Sterillzer

Vertical Pressure Steam Autoclave

Application

ST-VM series Liquid culture media, tip boxes, sterile clothing, exposed instruments, solid metal instruments and other occasions that require sterilization.

ST-VY series Liquid culture media, tip boxes, sterile clothing, exposed instruments, solid metal instruments, animal cages, bedding, packages and other places that require rapid post-drying.





LED Screen



Gasket Door

Advantage

●Automatically detect the position of the door lock and provide voice-guided instructions for easy operation.

●Blue breathing light indicates standby, alert, and power outage statuses.

●Safety valve calibration prompts, with the ability to send notification messages to a WeChat public account through cloud-based pushing.

●Dual-hold electromagnetic locks ensure automatic locking under high temperature or pressure. Unlock conditions are met for automatic release, and the lid can be opened directly by lifting the lever.

●No steam leakage: Internal integration of copper pipe steam condenser converts high-temperature steam into water before discharging it into the waste steam collection tank.

●Voice prompts and guidance for user-friendly operation.

●Optional sterilization report USB export and online storage of sterilization reports.

●Free computer software provided for generating sterilization reports, allowing data exported from the USB drive to be output as PDF reports. Can generate reports in both graphical and data formats.

●PHM/PHY models are equipped with online sterilization quality control functions such as "FO value calculation, FO value process calculation, FO value aging treatment."

●Full automatic water replenishment, built-in current detection module to monitor the operation status of the heater in real-time, preventing dry heating online.

●Standard configuration: Dual over-temperature protection + dual over-pressure protection for the heating system, ensuring enhanced safety.

Vertical Pressure Steam Autoclave

●Expandable + optional: For positive waste sterilization, an optional PTFE filter can be added to prevent exhaust pollution and potential personnel poisoning.

●Reservation and preheating: Time reservation for automatic sterilization. Preheating capability prevents condensation due to temperature drop after drying.

●Rapidly Cooling: Standard Configuration: Dual-cycle air cooling can shorten the cooling time. For fragile objects, when combined with positive pressure, maintaining pressure and quick air cooling can enhance efficiency. The FO value is automatically calculated to determine if sterilization is effective. Sterilization completion can be determined based on FO value rather than time.

ST-VY Drying Function

●Disinfection packages with moisture content greater than 3% are referred to as wet packs. Wet packs cannot be used and must be re-sterilized. The reason is that the moisture in the air forms a wet channel for bacterial contamination, leading to internal infection.

●Replaces the need for an oven, saving space.

●Simplifies complexity, saving time.

●Eliminates secondary contamination during the transfer process.

Specification

Model	ST-VM56 ST-VY56	ST-VM80 ST-VY80	ST-VM75 ST-VY75	ST-VM105 ST-VY105	ST-VM120 ST-VY120	ST-VM95 ST-VY95	ST-VM135 ST-VY135	ST-VM150 ST-VY150
	ST-VM Series: Normal Type / ST-VY Series: Drying Function Type							
Capacity	56L	80L	75L	105L	120L	95L	135L	150L
External Size(WxDxH)(mm)	680x600x895	680x600x1145	680x600x895	680x600x895	680x600x1235	680x600x895	680x600x1145	680x600x1145
Chamber Size(ØxH)(mm)	Ø350x645	Ø350x895	Ø400x661	Ø400x911	Ø400x1001	Ø450x677	Ø450x927	Ø450x1017
Chamber Material	S30408							
Sterilization Temperature	105~135 ℃							
Designed Temperature	138℃							
Max.Working Temperature	135℃							
Dissolution Temperature	60~100℃							
Warming Temperature	45~65℃							
Unlock temperature	60~95℃							
Temp.Accuracy	0.1℃							
Designed Pressure	0.42Mpa	0.42Mpa	0.38Mpa	0.38Mpa	0.38Mpa	0.35Mpa	0.35Mpa	0.35Mpa
Max.Sterilization Pressure	0.24Mpa							
Sterilization Time range	1~9999min							
Temp. Controller	PID control by microprocessor							
Display	LED screen							
Drying Function	3 Optional Drying Solutions (Select 1): ●Thermal control drying drying ●Positive pressure drying ●Vacuum drying							
Drying Time	10~300min (Optional)							
Sterilization Program	●Liquid program ●Liquid & insulation program ●Bagged waste ●Dissolution & insulation program ●Instrument program ●Self-cleaning program ●Safety valve test program ●Leakage test program ●B-D test program							
Water Injection method	Build-in water tankOptional: Water supply pipeline+automatic replenishment, filtered pure water+automatic replenishment, positive pressure automatic drainage in the chamber, automatic detection and removal of discharged wastewater							
Drying Consumption	700W	900W	1200W	1400W	1600W	1200W	1400W	1600W
Consumption	2500W	3800W	2500W	3800W	3800W	3800W	3800W	3800W
Power Supply	220V,50/60Hz							
Standard Accessory	●USB port ●Buli-in water tank ●User management							
Optional Accessory	●Printer (Impact) ●PTFE filter ●Sample temperature sensor ●Electric drainage ●Water supply pipe ●Bulid-in waste tank ●Positive pressure compensation ●Auto un-lock and door open ●Leakage test module ●Vacuum test module ●Water cooling system							

BAWEBS MEDICAL EQUIPMENT

Vertical Pressure Steam Autoclave





5-inch Color Touch Screen



Hand Wheel Structure



Basket



Basket

Description

The vertical sterilizer is a safe, reliable and automatically controlled sterilization equipment, consisting of a heating system, a micro-computer control system, an automatic overheating and an overheating and overpressure protection system. The container has the advantages of reliable sterilization effect, easy operation, safe use, energy saving, durability and low price. It is suitable for pharmaceutical, medical, scientific research and other industries to sterilize equipment, medical dressings, utensils, liquids, culture media, waste and other items.

Performance feature

- Inner tank made of high-quality stainless steel.
- Self-expanding seal.
- Metal power switch, metal handwheel.
- Built-in water tank, water cutoff protection control.
- Safety interlocking device.
- Buzzer reminds automatic shutdown after sterilization is completed.
- Computer controlled automatic cycle and arbitrarily set sterilization program.
- USB communication socket, built-in mobile probe (for various program modes such as open liquid, culture medium, etc.)
- 5-inch color touch screen.
- It can automatically replenish water during the whole operation process and realize real internal circulation of soda and water.
- Double automatic protection function for over-temperature and over-pressure.
- The internal circulation system of steam and water is equipped with an exhaust cooling system, which can avoid the generation of aerosols ,does not discharge steam to the outside, and the environment is clean and dry.
- Optional drying system and printer.
- Sensor failure alarm.
- Optional reverse pressure quick cooling function.
- Pressure module overpressure alarm protection.

Specification

Model	ST-VPA50	ST-VPA80	ST-VPA100	ST-VP50	ST-VP80	ST-VP100	ST-VP120
Chamber Size(Ø*H)	Ø386*515	Ø386*695	Ø386*875	Ø386*515	Ø386*695	Ø386*875	Ø386*1054
Capacity(L)	60	80	100	60	80	100	120
Consumption	4.6VA	6.1VA	7.3VA	3.6VA	5.1VA	6.1VA	6.1VA
Temperature(℃)	121℃~134℃						
Highest working pressure	0.25Mpa						
Temp.Accuracy	0.5℃						
Design pressure	0.28~0.3Mpa						
Ambient temperature	5℃~40℃						
Relative humidity	≤85%						
Atmospheric pressure	70kpa~106kpa						
Power supply	AC 220V ± 22V, 50Hz ± 1Hz						