



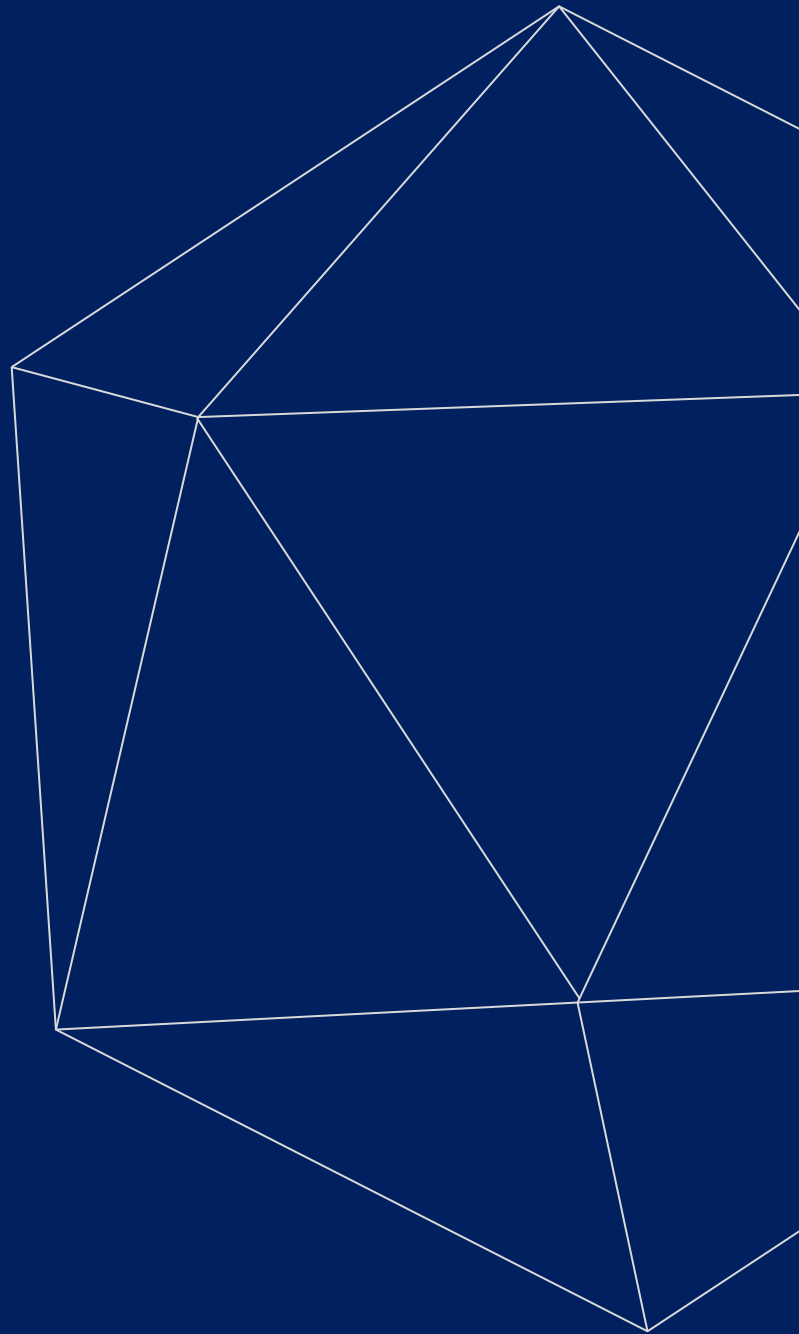
LABORATORY SECTOR

AUTOCLAVES



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With more than 25 years growing with our customers, Kalstein's multiformat and modern content, is now present in more than 10 countries and increasing.



KALSTEIN® Autoclaves

Single Door / Double Door Horizontal Pulsating Vacuum Autoclave Fully Automatic

Model YR0HS-HSP100



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Application:

YR series horizontal pressure steam autoclave is the equipment that disinfects and sterilizes the objects with saturated steam, its structure is horizontal and heating way is electric heating. It is composed of sterilization chamber, shell, jacket, door, steam generator, vacuum system, cooling system, pipe system, control system, display system and power-supply system. It is widely used in CSSD, lab, scientific research institution, pharmaceutical, food industry and is suitable for items which are high temperature-resisting and high pressure-resisting including unwrapped or wrapped instrument, dressing, rubber, liquid, plant-in instrument, porous item, hollow instrument to be sterilized.

Product Features:

CAD-aided design

Application of finite element analysis tools: Good structural design stems from good design methods. The use of finite element analysis methods in the design process not only increases the design pressure of the sterilizer, but also extends the life of the sterilizer.

Welding:

Automatic welding using plasma welding machine, strictly follow WPS standard.

Insulating Layer:

The insulating layer is made by aluminum silicate which is the best insulating material, the thickness is 60mm, and equipped with silicate insulation cotton with strong thermal insulation performance, which effectively reduces energy loss and heat radiation.

Seal Door:

Pneumatic sealing, the door gasket is made of high-quality silicone rubber sealing ring and adopts patented compressed air sealing technology, it is fully automatic operation when sealed, the lifespan is more than 2000 sterilization cycles. The door equipped with complete electromechanically safety interlocking device to ensure the safety of personnel and equipment.

Main Structure:

The machine adopts rectangular horizontal triple-layer design structure, with chamber and jacket, the thickness is 8 mm. Chamber is composed of compound gauge, non-return valve, steam trap, plug screen etc. Jacket is composed of pressure gauge, safety valve, vacuum circuit breaker etc. Horizontal sterilization chamber, rectangular cross-section, European-style ring-shaped stiffener jacket structure. The unique inner shell and ring-shaped jacket combination structure enhances the strength and rigidity of the main body.

Control System:

- ✓ It is integrated by PLC + HMI + Printer. This system is easy to implement the program selection, parameter setting, equipment operation, report processing, printing, storing and others functions. The FO value and the temperature time gives double guarantee for sterilization.
- ✓ Equipped with Ethernet interface and USB interface.
- ✓ Equipped with independent temperature monitoring system.
- ✓ The controller system equipped with four-level password access authority, administrator, engineer, operator.
- ✓ When automatic controller in the failure of the circumstances, the security device makes the sterilization indoor pressure safety in the pressure of the atmosphere to the back of the state, and allow the loading door can be opened.
- ✓ In order to maintenance, test and emergency needs, manual operation can be through the use of access control tools to complete.



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Pipeline System:

- ✓ The pipes are made of AISI 316L. All pipes are polished inside and outside, are seamless stainless steel medical-grade pipes, whose material composition can be traced.
- ✓ Drain lines are equipped with removable filter plugs to prevent clogging.
- ✓ The main control and action components are all internationally renowned brands to ensure stable operation of the equipment.
- ✓ The pipeline system is mainly composed of pneumatic angle seat valve, air filter, vacuum pump, heat exchanger, etc...
- ✓ Pipe insulation, reduce steam consumption, avoid scalding, and improve sterilization and drying effect.

Sterilization Cycle:

- ✓ Preset sterilization cycle: Based on request (We can create more new cycles if needs)
- ✓ User-defined cycle: Based on request (We can create more new cycles if needs)
- ✓ Testing cycle (B & D test, Vacuum test)

Steam Generator:

The steam generator is made of AISI 316L, insulated with resin embedded glass wool, and equipped with water level sensor, safety valve, etc., automatic water filling and blow down system.

Drainage Control System:

Automatic drainage temperature adjustment system, drainage temperature $\leq 55^{\circ}\text{C}$.

Automatic Hydrophobic Device:

Installed automatic control hydrophobic device for chamber and jacket, automatic program control, automatic drain, ensure the steam saturation.

Internal Drainage:

The bottom of the chamber has a certain inclination, which is convenient for cleaning and drainage, and ensures the discharge of condensate in the inner chamber, and equipped with drain line strainer.

Main Structure:

The machine adopts rectangular horizontal triple-layer design structure, with chamber and jacket, the thickness is 8 mm. Chamber is composed of compound gauge, non-return valve, steam trap, plug screen etc. Jacket is composed of pressure gauge, safety valve, vacuum circuit breaker etc. Horizontal sterilization chamber, rectangular cross-section, European-style ring-shaped stiffener jacket structure. The unique inner shell and ring-shaped jacket combination structure enhances the strength and rigidity of the main body.

Water Seving and Noise Reduction System:

For water-saving and noise reduction system, which can save 30% recycled water consumption of vacuum pump and reduce the noise of vacuum pump.

Vacuum System:

- ✓ The highly efficient liquid ring vacuum pump is provided to effectively remove air from within the chamber. Multiple negative pressure pulsation (1-99 times) + cross pressure pulsation (1 time) + positive pressure pulsation (1-3 times) mode is adopted to reduce the alternating load of the sterilizer and improve the fatigue life of the equipment.
- ✓ The steam condenser is fitter in the exhaust / vacuum line to condense the steam before entering inside the vacuum pump.



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Maintenance System:

Special design for a unique maintenance information prompt function, to remind user of maintenance, including change door gasket, clean and change filter, lubrication and maintenance of door lifting mechanism, wiping main body regularly.

Fault Alarm System:

Perfect fault information prompt and fault self-diagnosis function.

Advanced Configuration:

All major components are world famous brand, stable performance, reliability and long service life.

GPM & Certified

Equipped with standard GMP verification port.
 Certificate: CE, ISO9001, ISO13485, ASME,
 FDA, IEC60601-1, IQ, PQ, OQ

Safety System:

- ✓ Low water cutoff sensor
- ✓ Mechanical pressure relief safety valve for chamber and jacket
- ✓ Over-pressure protective device
- ✓ Over-temperature protective device
- ✓ Protective measure device of door safety
- ✓ Interlock function device
- ✓ Door safety interlock device: The program can't start up when the door is not closed well. When the pressure of chamber is not 0, the door can't be opened. The door cannot be opened when the machine is running.
- ✓ Perfect fault alarm and fault self-diagnosis function
- ✓ Emergency stop button
- ✓ Two doors cannot be opened at the same time

Alarm System:

- ✓ Alarm system with sound and indicator light device.
- ✓ Door is not closed in place alarm.
- ✓ Chamber over-pressure can not open the door alarm.
- ✓ Chamber low-pressure can not open the door alarm.
- ✓ Chamber over-temperature can not open the door alarm.
- ✓ Chamber over-temperature alarm.
- ✓ Chamber low-temperature alarm.
- ✓ Door interlock alarm.
- Door opening and closing overtime alarm.
- ✓ Door not closed can not start program alarm.
- ✓ Program running can not open the door alarm.
- ✓ Door overload or blocked alarm.
- ✓ Door is not closed to open the chamber steam inlet valve alarm.
- ✓ Chamber low temperature and high temperature alarm during sterilization process.
- ✓ Emergency stop alarm.
- ✓ Water lacking alarm.
- ✓ Anti-dry burning alarm for electric heat pipe of steam generator.
- ✓ Sterilization failure alarm.
- ✓ Vacuum pump overload or blocked alarm.
- ✓ Sensor detection abnormality alarm.
- ✓ Chamber vacuum leak alarm.



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Main Material:

Number of Door	Door Type
Single-door	Motorized door
Double-door	Automatic vertical sliding door
<ul style="list-style-type: none"> ● Side Cover <input checked="" type="checkbox"/> With side cover Without side cover 	Steam Source External steam supply Built-in steam generator
<ul style="list-style-type: none"> ● Material of Chamber + Jacket 	Loading Method Loading tray Loading cart and transfer trolley Floor trolley loading
Material of Pipeline <input type="checkbox"/> AISI 304 <input type="checkbox"/> AISI 316L	<ul style="list-style-type: none"> ● Material of Door <input type="checkbox"/> AISI 304 <input checked="" type="checkbox"/> AISI 316L
<ul style="list-style-type: none"> ● Material of Water Tank AISI 304 AISI 316L	<ul style="list-style-type: none"> ● Voltage 380V, 3-Phase 220V, 3-phase 440V, 3-Phase
Optional Configuration Remote monitoring system	<ul style="list-style-type: none"> ● Frequency 50Hz 60Hz



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Main Parameters:

- ✓ Design pressure: -0.1/0.3Mpa
- ✓ Design temperature: 150°C
- ✓ Working temperature range: 105°C-139°C
- ✓ Working pressure range: 0-0.25Mpa
- ✓ Temperature control accuracy: $\leq \pm 0.2^{\circ}\text{C}$
- ✓ Temperature display accuracy: 0.1°C
- ✓ Sterilization time range: 0-999min
- ✓ Drying time range: 0-999min
- ✓ Vacuum rate: -97Kpa
- ✓ Temperature equilibrium: $\leq \pm 0.5^{\circ}\text{C}$
- ✓ Safety valve open pressure: 0.28Mpa
- ✓ Water source: 0.15-0.3MPa
- ✓ Steam pressure: 0.3-0.6Mpa
- ✓ Compressed air source: 0.4MPa-0.7MPa

Main Configuration:

- ✓ Type: Front loading fully automatic horizontal autoclave
- ✓ Class: Class B
- ✓ Door number: Single-door/double-door
- ✓ Door type: Automatic vertical sliding door
- ✓ Liquid ring vacuum pump, Pre-vacuum and Post-vacuum
- ✓ Control: PLC + HMI + Printer
- ✓ Display: 7 inch color touch screen
- ✓ Built-in printer
- ✓ Built-in steam generator
- ✓ Built-in water feeding pump and water tank
- ✓ With USB interface, Ethernet interface, remote control system(optional), storage system, cycle counting function, cycle record, password authority function, water saving system, noise reduction system.
- ✓ Loading: Loading cart + Transfer trolley
- ✓ Language: English, Spanish, Chinese
- ✓ Warranty: 2 years



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Sterilization Cycle Parameters:

Program	Sterilization Temperature	Sterilization Time	Drying Time
Unwrapped instruments	134°C	6 mins	8 mins
Wrapped instruments	134°C	7 mins	15 mins
Textile program	134°C	7 mins	15 mins
Implant program	134°C	10 mins	15 mins
Liquid program	121°C	20 mins	No
Rubber	121°C	20 mins	15 mins
Hollow	134°C	6 mins	10 mins
Prions	134°C	18 mins	15 mins
PCD	134°C	3.5 mins	5 mins
Bowie-Dick test	134°C	3.5 mins	5 mins
Gravity program		√	
High vacuum program		√	
User-defined cycle		√	
Vacuum test		√	
Fast program		√	
Auxiliary program		√	
Manual control /Automatic control		√	

Note 1: Users can adjust parameters of all preset cycles as required.

Note 2: Users can set up new cycles through user-defined cycles.

Note 3: We can preset new cycles according to user needs.



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Size & Utilities:

Model	Chamber size (W×H×D)	Outer size (W×H×D)	Steam Consumption (kg/cycle)	Water Consumption (kg/cycle)	Net Weight (kg)	Power (kw)
YR0HS-HSP100	100L 450*450*500 mm	1190*1700*900mm	10	60	500	12
YR0HS-HSP250	250L 550*550*850 mm	1290*1850*1200m m	16	120	750	22
YR0HS-HSP600	600L 652*690*1350mm	1400*1950*1700m m	35	220	1150	39

Note 4:

600L Double-door: 1 pcs loading cart with 2 pcs trays + 2 pcs transfer trolleys

600L Single-door: 1 pcs loading cart with 2 pcs trays + 1 pcs transfer trolley



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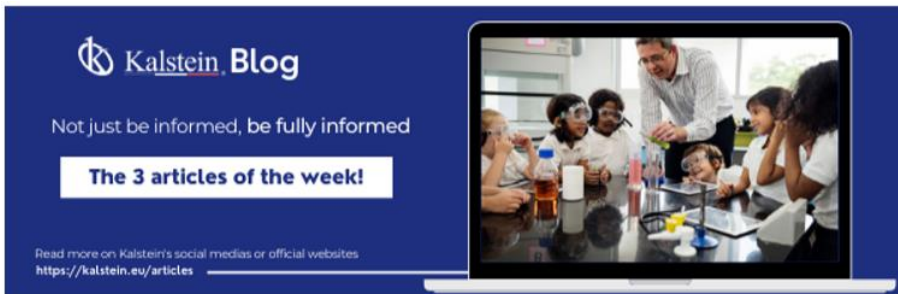
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Not just be informed, be fully informed

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1
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microscope is an instrument that allows observing and measuring small objects. This is achieved through the use of lenses or a system of mirrors that collect and focus light from the object being observed.

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2
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What is the importance of the laboratory refrigerator?

Refrigerator is a device that is one of the most common equipment that is used to maintain, in a controlled environment (refrigerated space), various fluids and substances.

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