



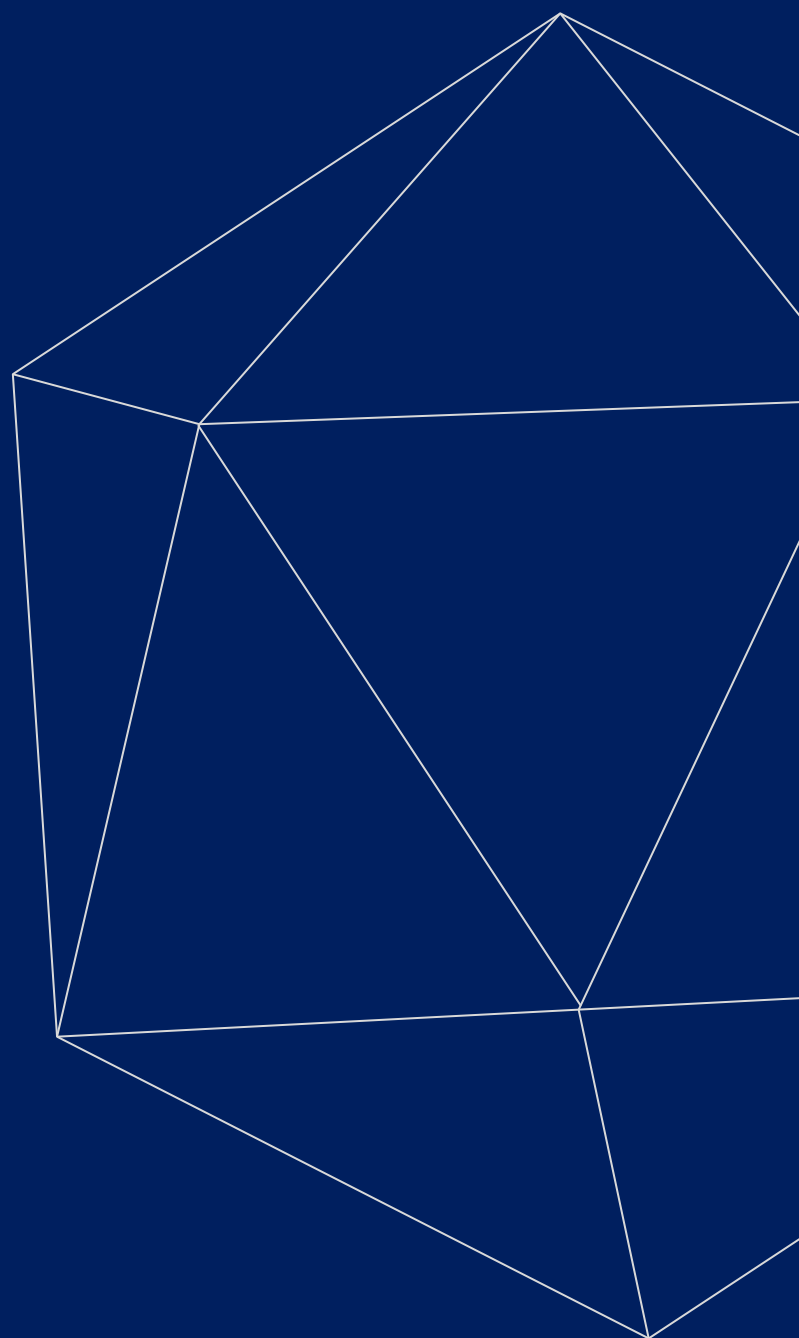
LABORATORY SECTOR

AUTOCLAVE



Kalstein®

A different accompaniment, at your service





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OUR SERVICES

Benefits and Support

In Kalstein France, we take care of the full satisfaction of our customers, that is why we provide value-added services of the highest level based on our experience.



Online Inductions and Trainings

In any part of the world, receive your induction or training from our specialized team of engineers



Quick Response

Our work team is always available to response all your consults or questions, in order to support you in any situation.



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Enjoy of personalized advice for the correct preventive and corrective maintenance of your equipment, thanks to Kalstein's manuals and articles, special catalogues and video tutorials.



Delivery Logistics

We take care of all the necessary logistics for the dispatch of your goods, whether is by sea, land or air.



Kalstein Worldwide

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® Autoclave
650 L Hot Water Spray Autoclave
Model YR0HSW600



Main Parameters:

- ✓ Design pressure: -0.1/0.3Mpa Design temperature: 150°C
- ✓ Sterilization temperature range: 60 - 134°C Sterilization pressure range: 0 - 0.22Mpa Temperature control accuracy: $\leq \pm 0.2^\circ\text{C}$ Timer range: 0 - 999min
- ✓ Vacuum: -97Kpa
- ✓ Temperature equilibrium: $\leq \pm 0.5^\circ\text{C}$ Water source: 0.2 - 0.3MPa
- ✓ Steam pressure: 0.4 - 0.8Mpa Compressed air source: 0.5 - 0.8MPa Safety valve open pressure: 0.28Mpa

Main Configuration:

- ✓ Control: PLC + HMI + Recorder + Printer Display: 7 inch touch screen
- ✓ Printer: Built-in Printer
- ✓ Optional configuration: Air compressor Language: English
- ✓ Voltage: 220/380V. 50/60Hz, three-phase.

Sterilization Field & Sterilization Object:

- ✓ Sterilization Field: Pharmaceutical factory/ Lab/ Research institutions/ Industrial sterilization etc...
- ✓ Sterilization Object: Glass bottles, ampoules, oral solution, vials, plastic bottles, plastic bags, soft bags and other liquids, drinking liquids, canned food, etc...



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Main Configuration:

Items	Configuration
Chamber	SS316L (thickness: 8mm)
Jacket	SS316L
Door	SS316L
Pipeline	SS316L
Temperature sensor	2 PCS
Loading cart	SS304
Transfer trolley	SS304



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Main Configuration List:

No.	Items	Brand and Country	Features
1	PLC	Siemens, Germany	High-performance PLC, automatic program control for the whole process, with powerful, stable and reliable.
2	Touchscreen	Siemens, Germany	7 inch color touch-screen, menu programming, one-click touch, dynamic display curve of work process and report.
3	Temperature sensor	JUMO, Germany	Pt100, good stability, fast speed, temperature accuracy $\leq 0.1^{\circ}\text{C}$
4	Pressure transmitter	HUBA, Switzerland	High precision pressure conversion
5	Contactator	Schneider, France	Safe and reliable, long life.
6	Electromagnetic valve	Airtac, China	Reliable action and long life
7	Liquid ring vacuum pump	SPECK, Germany	Low noise, no water leakage, no vibration, long lifespan.
8	Water pump	DES, France	Maintenance-free and leak-free mechanical seal
9	Sprinkler system	Hongshun, China	Double-layer spray plate
10	Pneumatic angle seat valve	GEMU, Germany	Pneumatic valve guarantees 4 million trouble-free operation.
11	Plate type heat exchanger	Alfa Laval, Sweden	High thermal efficiency, good interchangeability of plates
12	Waterproof hammer valve	GEMU, Germany	The system is stable without impact
13	Steam trap	Spiraxsarco, Britain	Automatically discharge the steam condensate and air in the steam pipeline without leaking steam
14	Air filter	AirTAC, China	0.22 μm ultra-fine sterilization filter, the sterilization rate is 99.9999%.
15	A/D	Siemens, Germany	High precision pressure and temperature analog to digital conversion
16	Printer	Xunpu, China	Printing sterilization time, pressure, temperature, curve, report output
17	Recorder	Pangu, China	Show sterilization time, pressure, temperature in real time.



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Product Features:

Main body:

Rectangular ring stiffener jacket structure, superior bearing capacity, seal structure design, with circular hollow sealing ring, long service life

Chamber:

The rectangular chamber + jacket, checked by X ray. The sterilization chamber is integrally formed without any dead angle. Mechanical mirror electrolytic polishing on surface, corrosion resistance.

Control System:

It is integrated by PLC + HMI + Recorder + 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. With USB port. The master controller system equipped with three levels of authority, administrator, engineer and operator.

Insulating Layer:

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

Seal Door:

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 door equipped with complete electromechanics safety interlocking device to ensure the safety of personnel and equipment.

Remote communication (optional):

The introduction of computer control technology enables the system to easily implement various forms of central monitoring mode.



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Pipeline System:

- ✓ The equipment piping system is mainly internal circulation and external circulation.
- ✓ The internal circulation is the sterilization medium channel, which is mainly composed of three parts: circulation pump, plate heat exchanger and spray device.
- ✓ The external circulation is an external "heating" and "refrigeration" energy channel, which is composed of various valves and plate type heat exchanger.

Plate type heat exchanger:

Key control links of work efficiency.

Spray Device:

The use of double-layer spray plate can make the high-temperature circulating water spray evenly to the sterilized items and every corner of the chamber, without any blocking and retention phenomenon, and no dead angle that cannot be sprayed, thus effectively ensuring the temperature uniformity.

Plate type heat exchanger:

Key control links of work efficiency.

Automatic hydrophobic device:

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

Leak detection method:

Vacuum leak detection or color water leak detection.

Cooling system:

Equipped with fast cooling system..

Cooling system:

Automatic drainage temperature adjustment system, drainage temperature $\leq 50^{\circ}\text{C}$...

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.



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Water-saving 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.

Control valve: Adopting German GEMU products.:

The cooling water system is a special waterproof hammer angle seat type pneumatic valve to ensure that the system operates smoothly and without impact; the rest are high temperature resistant (180°C) water vapor special angle seat type pneumatic valves. These valves are self-adjusting two-way sealed, with large flow rate, life span of 4 million times, and remote central pneumatic control..

Pulsating mode:

Multiple negative pressure pulsation + cross pressure pulsation + positive pressure pulsation mode is adopted to reduce the alternating load of the sterilizer and improve the fatigue life of the equipment.

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.

GPM:

The device come with a standard GMP verification interface. Provide a full set of verification program software..

Qualification documents:

PQ, DQ, OQ, IQ, FAT, SAT, SOP as per requirement..



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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 of doors
- ✓ Perfect fault information warning and fault self-diagnosis function

Loading method:

<input type="checkbox"/> Shelf loading	<input checked="" type="checkbox"/> Loading cart + transfer trolley The chamber is provided with two rails for easy movement of carriage.	<input type="checkbox"/> Floor trolley loading The chamber is provided with two rails for easy movement of carriage.



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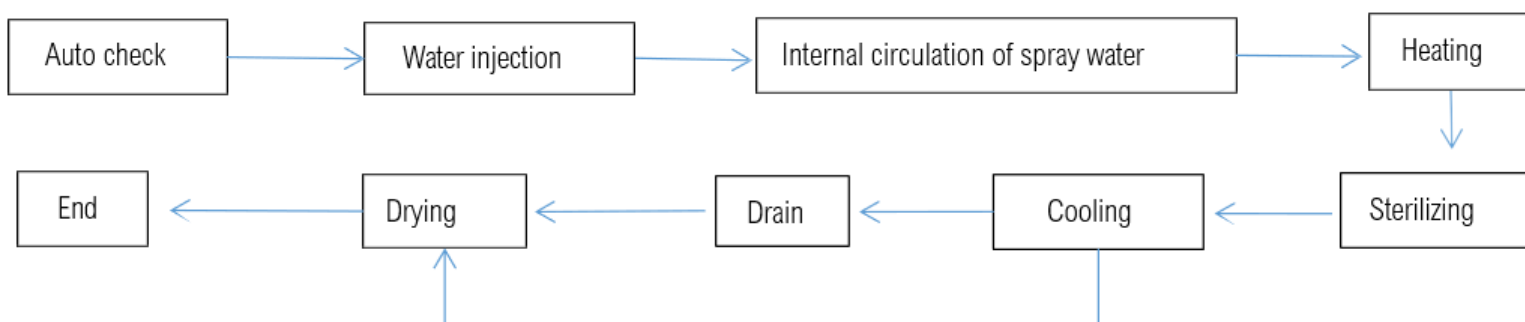
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Process Flow:



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Packing Info:

Model	Chamber Size (D×W×H)	Outer Size (L×W×H)	Packing Size (L×W×H)	Net Weight	Steam Generator
YR0HS-HSW600	650L 1150*610*910mm m	1470*1440*2110mm	-	1250kg	36kw

Configuration Quotation:

Model	Loading	Steam Consumption	Water Consumption	Control Power
YR0HS-HSW600	Loading cart × 1 Transport trolley × 2	35kg/cycle	320kg/cycle	3kw



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