



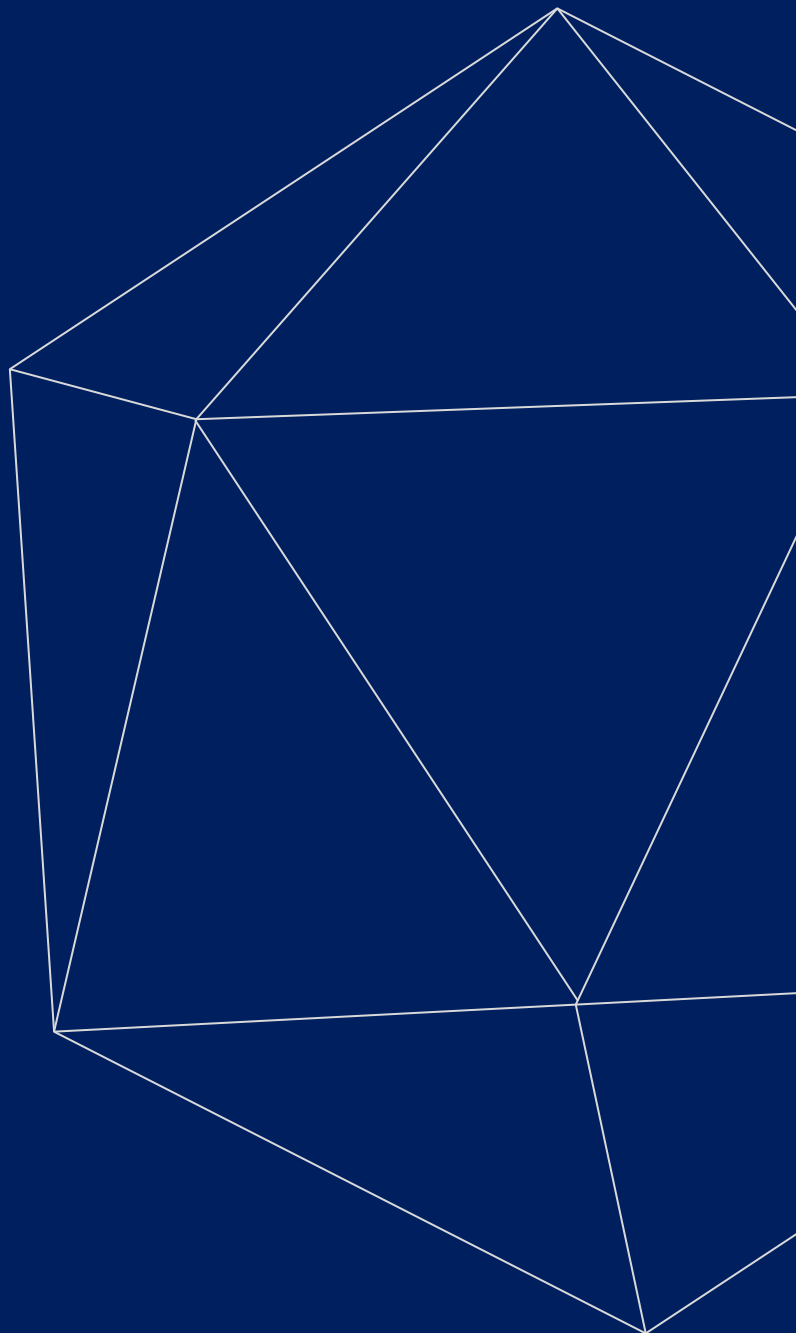
LABORATORY LINES

AUTOCLAVE



Kalstein®

A different accompaniment, at your service



KALSTEIN® Autoclave

Automatic Vertical Sliding Door Horizontal Pulsating Vacuum Autoclave

Model YR05651 // YR05654-1



Product Description:

YR05647 // YR05654-1 series horizontal pressure steam autoclave is the equipment which disinfects and sterilizes the objects with saturated steam, its structure is horizontal and the heating way is electric. It is composed of sterilization chamber, housing, jacket, door, steam generator, vacuum system, cooling system, piping system, control system, display system and power supply system.

It is widely used in CSSD, laboratory, scientific research institution, pharmaceutical, food industry and is suitable for items which are resistant to high temperature and high pressure, including unwrapped or wrapped instruments, dressing, rubber, liquid, plant instruments, porous item, hollow instrument to be sterilized.

CAD-Assisted Design :

Application of finite element analysis tools: good structural design is derived 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 service life of the sterilizer.

Main Structure :

The machine adopts rectangular horizontal triple layer design structure, with chamber and jacket, the thickness is 8mm. Horizontal sterilization chamber, rectangular cross section, European style ring-shaped reinforcement jacket structure. The unique combination of inner shell and ring-shaped jacket structure improves the strength and rigidity of the main body.

Welding :

Automatic welding with plasma welding machine, strictly follow the WPS standard..



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Insulating Layer :

The insulation layer is made of aluminum silicate, which is the best insulating material, and is equipped with silicate insulating 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 when sealed, the service life is more than 2000 sterilization cycles. The door equipped with complete electromechanical safety interlock device to ensure the safety of personnel and equipment.

Control System :

- ✓ It is integrated by PLC + HMI + Printer. This system is easy to implement in program selection, parameter setting, equipment operation, report processing, printing, storage and other functions. FO value and temperature time give double guarantee for sterilization. Equipped with Ethernet and USB port.
- ✓ Equipped with independent temperature control system.
- ✓ The master controller system equipped with three levels of authority.
- ✓ When the automatic controller fails under the circumstances, the safety device makes the inner sterilization pressure safe in the atmosphere pressure at the back of the state and allows the loading door can be opened.
- ✓ For maintenance, testing and emergency needs, manual operation can be carried out by using access control tools to complete.



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User Interface :

- ✓ User login: administrator, engineer, user
- ✓ Monitoring interface: real-time running status
- ✓ Parameter settings: user-defined cycle
- ✓ manufacturer parameter
- ✓ Time settings
- ✓ Print configuration
- ✓ Door operation: front door/back door
- ✓ Operation interface: automatic operation, manual operation, cycle selection, B & D test, vacuum test.
- ✓ Maintenance
- ✓ Emergency button and light

Piping System :

The pipes connected with the inner chamber are made of AISI 316 and the rest are made of AISI 304. All the pipes are polished inside and outside, they are seamless medical grade stainless steel pipes, whose material composition can be traced. The main control and action components are all from internationally renowned brands to ensure stable operation of the equipment. The piping system is mainly composed of pneumatic angle seat valve, air filter, vacuum pump, heat exchanger, etc.

Sterilization Cycle :

- ✓ Preset sterilization cycle: Instrument, Textile, Rubber, Liquid (a new preset cycle can be created according to the user's needs)
- ✓ User defined cycle
- ✓ Test cycle (B and D test, vacuum test)
- ✓ The user can adjust the parameters of all preset cycles as needed and can set up new cycles through the user defined cycle. We can also preset a new cycle according to the user's needs.



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Drainage Control System :

Automatic drain temperature adjustment system, drain temperature ≤ 55 °C.

Automatic hydrophobic device :

Automatic hydrophobic control device installed for chamber and jacket, automatic program control, automatic drainage, ensures steam saturation.

Internal drainage :

The bottom of the chamber has a certain slope, which is convenient for cleaning and draining, and ensures condensate discharge into the inner chamber and is equipped with a drain line filter.

Water saving and noise reduction system :

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

Vacuum System:

- ✓ Highly efficient liquid ring vacuum pump is provided to effectively remove the air inside 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 service life of the equipment.
- ✓ The steam condenser is installed in the exhaust/vacuum line to condense the steam before entering the vacuum pump....



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Model	YR05651	YR05651-1	YR05652	YR05652-1	YR05653	YR05653-1	YR05654	YR05654-1
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	≤ ± 0.2°C							
Temperature display accuracy	0.1°C							
Sterilization time range	0-999min							
Drying time range	0-999min							
Vacuum rate	-97Kpa							
Temperature equilibrium	≤±0.5°C							
Safety valve open pressure	0.28Mpa							
Water source	0.15-0.3MPa							
Steam pressure	0.2-0.6Mpa							
Compressed air source	0.4MPa-0.7MPa							
Door Number	Single Door	Double Door	Single Door	Double Door	Single Door	Double Door	Single Door	Double Door



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Sterilization capacity Capacity	400 L	450 L	600 L	800 L
Size	652*700*900	652*700*1000	652*700*1320	652*700*1750
Type	Front loading fully automatic horizontal autoclave			
Class	Class B			
Door type	Automatic vertical sliding door			
Control	PLC + HMI + Printer			
Display	7.0 inch color touch screen			
Additional Features	Built-in printer			
	Warranty: 2 years			
	Language: English, Spanish, Chinese			
	Built-in water tank			
	Built-in water pump			
	Built-in steam generator			



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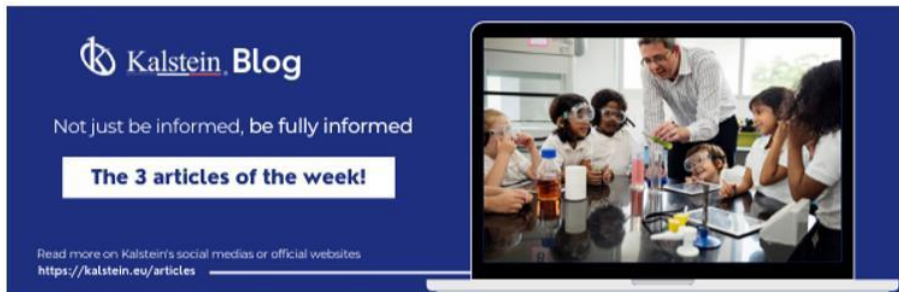
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