

## **vertical pressure steam sterilizer with internal circulation**

Vertical pressure steam sterilizer is a kind of equipment that uses high temperature and high pressure of steam to sterilize items, widely used in medical, laboratory, pharmaceutical and other industries.

Vertical pressure steam sterilizer through the PID microcomputer control technology, can automatically complete the whole process of sterilization, from the injection of water, warming to sterilization, drying and other processes, to ensure the stability and efficiency of each sterilization effect.

### **Vertical Pressure Steam Sterilizer Features**

1. high-quality stainless steel: the main body of the equipment is made of S30408 stainless steel, with excellent corrosion resistance and high temperature resistance, to ensure the long-term stability of the equipment.
2. automatic water filling function: connected to the distilled water machine or ultra-pure water machine, the equipment can be automatically filled with water, eliminating the need to manually add water to the trouble, improve work efficiency.



3. PID microcomputer control: equipped with PID microcomputer control system, can accurately control the temperature, time and pressure and other parameters, to ensure that the sterilization process of high precision and efficiency.
4. a variety of shortcut programs: equipped with instruments, auxiliary materials, packaging instruments, liquid four fixed program shortcut keys, according to the sterilization needs of different items, quickly select the appropriate program.
5. full automation process: automatically complete the water injection, heating, sterilization, exhaust steam, drainage and drying and other links, the entire sterilization process without human intervention.
6. handwheel type quick opening design: equipped with handwheel type quick opening structure, easy to open quickly, save operating time, improve work efficiency.
7. double safety chain: when the door is not closed, the equipment can not start. when there is pressure in the sterilization barrel, the machine can not open the door, to ensure the safety of the operation process.
8. built-in water tank and steam circulation: the equipment is equipped with a built-in water tank and steam circulation system, the steam is condensed and then recycled to avoid steam leakage, improve energy efficiency and reduce environmental pollution.
9. multiple protection systems: equipped with overpressure self-evacuation, over-temperature, over-current, water shortage protection and other safety features to ensure the safe operation of the equipment.

- 10.glass fiber reinforced plastic cover protection: equipment external glass fiber reinforced plastic cover, to prevent scalding during operation, enhance operational safety.
- 11.the end of sterilization alarm: sterilization is completed, the equipment through sound and light alarm to remind the operator to remove the items in a timely manner, to avoid prolonged placement to affect the results.
- 12.optional printing function: according to the need for optional printing function, record the data of each sterilization process, to facilitate quality control and record management.

### **Advantages**

1. high efficiency sterilization: high temperature and high pressure steam to quickly kill bacteria, viruses and other microorganisms, sterilization effect is remarkable, widely used in industries with strict requirements for sterilization.
2. fully automatic operation: automated sterilization process reduces the complexity of manual operation and possible errors, to ensure the consistency and reliability of the sterilization process.
3. multiple safety protection: the equipment adopts double safety chain, over-temperature, over-voltage and other multiple protection functions to protect the equipment and operator safety.
4. intelligent control: the use of PID microcomputer control technology, can accurately adjust the temperature, time and pressure and other parameters to ensure that the sterilization of high precision and efficiency.

5. energy saving and environmental protection: built-in steam circulation system reduces steam waste, saves energy and reduces the impact on the environment.
6. easy to operate: equipped with LCD liquid crystal display, real-time monitoring of the sterilization process, easy for operators to understand the status of the equipment in real time, easy to use.
7. increase the data management function: optional printing function, realize each sterilization data recording and printing, help quality management and monitoring.

### **Working Principle**

Vertical Pressure Steam Sterilizer produces high temperature and high pressure steam by heating water to steam state and injecting it into the sterilizing room to sterilize the items in a closed environment. The equipment through the PID microcomputer control technology, precise control of temperature, time and pressure, to ensure the stability and consistency of the sterilization process. During the sterilization process, the steam internal circulation system condenses the steam and reuses it, reducing steam emission and achieving the effect of energy saving and environmental protection. After the end of sterilization, the equipment automatically carries out exhaust and drying treatment to ensure that the sterilized items are in good condition.

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<b>Model</b>	<b>VA50B</b>	<b>VA75B</b>	<b>VA100B</b>
Capacity	50L	75L	100L
Maximum Operating Temperature	134°C		
Maximum Operating Pressure	0.22Mpa		
Time Setting Range	0 to 9999 minutes		
Temperature Setting Range	100°C to 134°C		
Drying Temperature Setting Range	60°C to 110°C		
Sterilization Chamber Dimensions	diameter 320x530mm	diameter 400x470mm	diameter 400x580mm
Power Supply	220Vac, 50Hz, 3.5kw	220Vac, 50Hz, 3.5kw	220Vac, 50Hz, 4.0kw