

vertical autoclave with internal exhaust for laboratory use

Vertical autoclave is a use of high-temperature and high-pressure steam sterilization of items of equipment, widely used in medical, scientific research, pharmaceutical and other fields.

The powerful sterilization function of vertical autoclave can effectively eliminate bacteria, viruses and other microorganisms, to ensure that the sterilized items are sterile.

Main Features of Vertical Autoclave

1. high-quality materials: all S30408 stainless steel material, with excellent corrosion resistance and high temperature resistance, to ensure the long-term stability of the equipment.
2. automatic microcomputer control: warming, emptying, sterilization, exhaust steam and other processes are precisely controlled by the microcomputer to reduce human error, to ensure the consistency and reliability of each sterilization effect.
3. LCD touch screen display: equipped with touch LCD display, can real-time display of the sterilization process, including temperature, time, pressure and other important parameters, convenient for operators to monitor and adjust.



4. handwheel type quick open design: the use of handwheel type quick open structure, convenient for operators to quickly open and close the equipment, improve the efficiency of use.
5. Double safety chain: Equipped with the safety protection function that can not start the machine if the door is not closed, and at the same time, the machine can not open the door when there is pressure in the sterilizing barrel to ensure the safety of operation.
6. multiple safety protection: with overpressure self-evacuation, over-temperature, overcurrent, water shortage and other multiple protection functions, effectively preventing the equipment from abnormal conditions.
7. sound and light alarm function: when the sterilization is completed, the equipment will sound and light alarm to remind the operator to remove the sterilized items in a timely manner.
8. optional features: according to the needs of the choice to add the printing function and drying function, to further enhance the flexibility of the use of equipment.

Advantages

1. high efficiency sterilization: through high temperature and high pressure steam to kill bacteria, viruses and other microorganisms, sterilization effect is remarkable, can effectively protect the sterility of the product.
2. easy to operate: microcomputer control and touch screen operation makes the equipment more intelligent, the operator only needs simple settings to automatically complete the sterilization process.

3. strong reliability: double safety chain and multiple protection design, to ensure the safety and stability of equipment operation, to avoid human error or equipment failure risks.
4. energy saving and environmental protection: equipment design optimizes the efficiency of steam use, to avoid the waste of steam, saving energy consumption.
5. adaptable: provide optional printing function and drying function, to meet the needs of different users, enhance the versatility of the equipment.
6. high safety: no steam leakage in the whole process, the design of glass fiber reinforced plastic cover to effectively prevent scalding, reducing the operation of the safety hazards.

Working Principle

vertical autoclave through the microcomputer control system for temperature rise, emptying, sterilization and steam exhaust process for precise control. First of all, the water is heated into high-temperature and high-pressure steam through the heating element inside the equipment, and the steam enters into the sterilizing room and sterilizes the articles thoroughly through the high-temperature and high-pressure effect. In the sterilization process, the equipment through the microcomputer real-time monitoring and adjustment of temperature, time, pressure and other parameters to ensure the sterilization effect. After the sterilization is completed, the equipment automatically exhausts, cools and prompts the operator to take out the articles through the alarm system. Double safety devices to ensure that the operation process will not appear unsafe operation, such as the door is not closed or the internal pressure is too high when the equipment can not start.

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Model	VA35A	VA50A	VA75A	VA100A
Capacity	35L	50L	75L	100L
Maximum Operating Temperature	134°C			
Maximum Operating Pressure	0.25Mpa			
Time Setting Range	0 to 9999 minutes			
Temperature Setting Range	100°C to 134°C			
Sterilization Chamber Dimensions	diameter 318x420mm	diameter 318x530mm	diameter 388x480mm	diameter 388x630mm
Power Supply	220Vac, 50Hz, 2.5kw	220Vac, 50Hz, 2.5kw	220Vac, 50Hz, 3.5kw	220Vac, 50Hz, 4.0kw