

### **pre-vacuum horizontal autoclave with clamp-type piping**

Pre-vacuum horizontal autoclave ensures the thorough sterilization of items through the combination of pre-vacuum system and high-temperature and high-pressure steam, which is suitable for the disinfection treatment of all kinds of instruments, liquids, fabrics and so on.

Pre-vacuum horizontal autoclave ensures rapid and thorough sterilization of items through advanced pre-vacuum technology and precise temperature control. The horizontal circular inner chamber and optimized piping system provide uniform heat distribution and efficient steam penetration, meeting diverse sterilization needs across industries.

#### **Main Features of Pre-vacuum Horizontal Autoclave**

1. Horizontal circular inner chamber design: horizontal circular inner chamber and jacket structure is adopted to provide more uniform temperature distribution and more efficient heat exchange. This design can significantly improve the sterilization effect, optimize the heat preservation and drying effect, and ensure that each batch of items is thoroughly sterilized.



2. Embedded teeth + motor or manual locking door structure: the door lock adopts disk-type embedded teeth design, which can be locked by motor or manual way to reduce the occurrence of mechanical failure and increase the reliability and service life of the equipment.
3. Pneumatic or self-rising door sealing: according to the actual demand, the equipment provides pneumatic or self-rising sealing mode, to ensure that the door can be tightly sealed under high pressure to prevent steam leakage and ensure the safety and stability of the sterilization process.
4. Equipment validation interface: equipped with standard equipment validation interface, convenient for equipment calibration and periodic inspection, to ensure long-term stable operation of the equipment, in line with the relevant quality management standards.
5. Optimized design piping system: the use of corrosion-resistant SUS304 stainless steel piping, combined with clamp-type quick-fit, easy to install, maintain and clean, and improve the long-term reliability of the equipment.
6. Human-machine interface and microcomputer control system: the equipment is equipped with HMI human-machine interface, combined with touch-screen operation and microcomputer control system, making the parameter setting, equipment operation and sterilization process control more convenient and intelligent.
7. F0 value and temperature and time dual control: F0 value (the cumulative sterilizing effect of the sterilization process value) and the temperature and time of the double guarantee, so that the sterilization effect is more accurate, to ensure that the sterilization process in line with the strict sterilization standards.

8. Perfect sterilization file record function: the equipment can automatically record the detailed process data of each sterilization, providing a basis for quality tracing and auditing, to ensure that the operation can be traced.
9. Multiple safety protection measures: the equipment is designed with multiple safety protection systems, including over-temperature, over-pressure, low water level protection, etc., to ensure operational safety in the sterilization process.
10. A variety of sterilization process procedures: the equipment supports a variety of sterilization processes, such as fabrics, instruments, liquids, BD test, pressure retention test, etc., and can be customized according to the needs of a number of procedures, flexible response to a variety of different sterilization needs.

#### **Advantages of Pre-vacuum Horizontal Autoclave**

1. High-efficiency Sterilization: Through the pre-vacuum technology, the air inside the articles is removed and the steam penetration rate is improved, which makes even the articles with complex shapes or tiny pipes can be sterilized evenly and thoroughly.
2. Intelligent control: fully automatic control system, simple operation, real-time display of the sterilization process, temperature, pressure and other parameters can be traced and recorded to ensure that each sterilization can meet the standards.
3. Energy saving and environmental protection: optimized jacket and piping system design, making effective use of heat, reducing energy consumption. At the same time, the equipment through the built-in steam circulation system to avoid unnecessary energy waste.

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4. Convenient operation: touch screen operation interface, program settings, parameter adjustments at a glance, so that the use of equipment is more simple, intuitive, reducing the difficulty of operator training.
5. High safety: multiple safety protection measures to ensure stable operation of the equipment at high pressure and high temperature, reducing the potential safety hazards.
6. Adaptable: according to the actual need to choose different sterilization procedures, support a variety of items sterilized, widely applicable to different industries and uses.