

pre-vacuum horizontal pressure steam sterilizer factory

Pre-vacuum Horizontal Pressure Steam Sterilizer combines modern pre-vacuum technology and steam sterilization principle, which is widely used in the efficient sterilization of medical equipment, laboratory apparatus, food packaging materials, etc.

Pre-vacuum Horizontal Pressure Steam Sterilizer can quickly complete the sterilization process under high temperature and high pressure environment through the built-in pre-vacuum pumping system to ensure that every item can be thoroughly sterilized.

Main Features of Pre-vacuum Horizontal Pressure Steam Sterilizer

1. horizontal rectangular chamber design: the use of horizontal rectangular chamber with reinforcing bars and jacket structure, effectively enhance the stability of the equipment, to ensure the uniform distribution of heat, improve the insulation performance and optimize the drying effect.
2. embedded tooth type motor locking door structure: door locking structure adopts motor embedded tooth type design to reduce the failure rate and improve the safety and reliability of the equipment. Ensure that the equipment will not leak under high pressure due to poor door sealing.



3. pneumatic sealing door design: provide pneumatic sealing function, support single and double door interlocking system, double door design can more effectively avoid the risk of door not closed tightly in the sterilization process, to ensure the safety of operators.
4. equipment validation interface: provide standard equipment validation interface, easy to carry out equipment calibration and testing, to ensure that the equipment is still used for a long time to maintain efficient and stable performance.
5. Optimized design of piping system: SUS304 stainless steel piping, with clamp type quick-fit, easy to install and clean, while enhancing corrosion resistance.
6. HMI human-machine interface and PLC control system: the equipment is equipped with advanced HMI human-machine interface, combined with touch screen and PLC control, easy to operate, real-time display of sterilization status and various parameters.
7. F0 value and temperature and time double guarantee: through the double parameter control, F0 value and temperature and time at the same time to ensure the sterilization effect, to ensure that each batch of sterilization process can meet the strict standards.
8. perfect archive records: equipment built-in automatic archiving function, can record each sterilization process data, for quality traceability and audit support.

9. multiple safety protection design: a variety of safety mechanisms, such as over-pressure protection, over-temperature protection, low water level protection, etc., to ensure that the equipment does not occur in the process of running accidents, to ensure the safety of the operator.
10. program selection and a variety of sterilization processes: support for the sterilization of fabrics, instruments, liquids and other different items, as well as BD test, pressure retention test and other special programs to meet the needs of different industries.

Working Principle

Pre-vacuum Horizontal Pressure Steam Sterilizer ensures that items are thoroughly sterilized through a series of pre-vacuum and high-temperature and high-pressure steam sterilization processes. In the sterilization process, the inner chamber is first vacuumed through the pre-vacuum system to remove the air on the surface and inside of the articles, and then saturated steam is introduced to kill microorganisms completely by using the high temperature and high pressure of steam. After the sterilization is completed, the equipment will automatically discharge the steam for cooling and drying to ensure that there is no residual moisture in the sterilized articles. The dual control of F0 value and time makes the sterilization process more accurate and guarantees the stability and reliability of the sterilization effect.