

pre-vacuum sterilizer autoclave with built-in water tank

Pre-vacuum sterilizer autoclave is an efficient and reliable medical sterilization equipment, specially designed for thorough sterilization of various instruments, widely used in medical institutions, laboratories, operating rooms, stomatology, ophthalmology and other fields.

Pre-vacuum sterilizer autoclave adopts advanced pre-vacuum technology and precise temperature control system to sterilize and disinfect under high temperature and high pressure, which can effectively remove bacteria, virus and other pathogenic microorganisms on the instruments and ensure the sterility and safety of the articles. It meets the European B standard and passes EN13060 safety test to ensure the quality of equipment and sterilization effect.

Main Features of Pre-vacuum Sterilizer Autoclave

1. Conforms to European Class B standards: This equipment conforms to European Class B sterilization standards and passes EN13060 safety certification, which has efficient sterilization performance and reliable safety.



2. three times pulsation vacuum drying: through three times pulsation vacuum technology, can better exclude the air and moisture in the sterilization cavity, to ensure efficient penetration of steam, thorough sterilization.
3. Vacuum up to -0.9 bar: Adopting high-precision vacuum system, the vacuum can be pumped up to -0.9 bar to enhance the sterilization effect and ensure that even the instruments with internal piping can be sterilized well.
4. Low humidity residue: After sterilization, the residual humidity of the instruments is less than 0.2%, which ensures that the sterilized items are completely dry and avoids bacterial re-growth.
5. Advanced microprocessor control: Equipped with a D16-bit microprocessor to provide precise operation and control, users can easily set and monitor sterilization parameters.
6. BD Test and Vacuum Test Program: Equipped with BD Test and Vacuum Test Program to check the steam penetration and the effectiveness of the sterilization process to ensure that each round of sterilization process meets the standard requirements.
7. Jet steam generator: Jet steam generator ensures the temperature and pressure inside the pot are evenly distributed, improving the sterilization effect and guaranteeing the uniformity of the sterilization process at the same time.
8. wastewater tank full of water alarm: equipped with wastewater tank full of water alarm system, to prevent the return of wastewater caused by secondary pollution, to protect the effectiveness of the disinfection process.

9. digital display and fault alarm: clear digital display interface to facilitate real-time monitoring of the sterilization status of the operator, equipment failure will be automatically alarmed to ensure the safety of the operation and smooth running.
- 10.double interlock protection door: the door of the equipment adopts double interlock protection design, to ensure that in the case of pressure in the cavity, the door can not be opened, to avoid the safety accidents caused by improper operation.
- 11.optional built-in printer: you can choose the built-in printer, automatic recording of the sterilization process and date, easy to record and traceability, to meet the compliance requirements.

Working Principle

The working principle of the pre-vacuum sterilizer autoclave is based on the synergy between vacuum technology and high temperature and high pressure steam. First, the device removes air and moisture from the sterilization chamber through a three-pulsation vacuum process, ensuring that the steam can fully penetrate all parts of the instrument. Subsequently, high-temperature saturated steam is rapidly generated by a built-in jet steam generator and sterilized under high pressure. This steam completely destroys bacteria, viruses and other pathogenic microorganisms on the instruments. Once the sterilization process is complete, the unit automatically cools down and removes wastewater through the waste water tank overflow alarm system, ensuring an efficient and safe sterilization process every time.

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Model	DA4-12M	DA4-16M	DA4-18M	DA4-23M
Capacity	12L	16L	18L	23L
Rated Working Temperature	134°C, 121°C			
Rated Working Pressure	0.22Mpa			
Sterilization Chamber Dimensions	diameter 200x360mm	diameter 230x360mm	diameter 249x355mm	diameter 249x450mm
External Dimensions	445x550x395mm	445x550x395mm	445x550x395mm	445x640x395mm
Power Supply	110Vac, 220Vac, 50Hz, 60Hz			
Power	1.8kw			2.0kw
Weight	46kg	47kg	48kg	53kg