

### **tabletop high pressure steam sterilizer with printer**

Benchtop autoclave is a small high-efficiency sterilizing equipment specially designed for laboratories, medical institutions and health units, suitable for placing in the common desktop space.

Benchtop autoclave is capable of rapidly inactivating bacteria, viruses, germs and other microorganisms through high temperature and high pressure saturated steam, ensuring the safety and sterility of instruments and laboratory consumables. This benchtop autoclave is equipped with advanced monitoring and testing features, such as Bowie Dick penetration test, Helix spiral test and vacuum test, to guarantee the reliability of the sterilization process.

#### **Main Features of the Benchtop Autoclave**

1. moderate capacity: about 45 liters volume, just right for 60 cm wide laboratory desktop, does not take up space, easy to install.
2. double side cooling design: equipment with cooling windows on both sides, effectively improve the cooling efficiency, to avoid poor heat dissipation due to the back against the wall.



3. dual steam generator system: the use of dual steam generators working in parallel, steam production and stability, faster sterilization, temperature uniformity, to ensure the complete sterilization of large-capacity chamber.
4. high torque self-priming door lock mechanism: door lock design using high torque motor drive, self-priming locking, sterilization process to ensure that the chamber sealed tightly to eliminate steam leakage, to ensure safety.
5. built-in intelligent recording system: equipped with USB interface and mini-printer, real-time recording of sterilization curves and parameters, to facilitate data traceability and quality control.
6. open large-capacity water tank: net water tank volume of 7 liters, easy to replenish water and maintenance.
7. vacuum pumping and refrigeration function: built-in high-efficiency oil-free vacuum pump, rapid vacuum, to ensure that the air is completely excluded, to enhance the steam penetration ability, refrigeration system stable control of temperature changes, low noise and long equipment life.
8. intuitive digital display: high brightness digital screen, easy to operate, intelligent program at a glance, modern and beautiful interface.

### **Advantages of Desktop Autoclave**

1. sterilization effect is complete: can effectively inactivate the AIDS virus (HIV), hepatitis B virus (HBV), mad cow disease virus and a variety of bacterial spores, to protect medical safety.
2. fast and efficient: double steam generator and efficient vacuum pumping system significantly shorten the sterilization cycle, improve work efficiency.
3. Convenient and safe operation: automatic door lock control and intelligent program preset to avoid misoperation and ensure the safety of operators.
4. perfect data management: sterilization process monitoring, data can be exported and printed to facilitate quality management and meet the specifications.
5. energy-saving and durable: high-efficiency motor and vacuum pump design, reduce energy consumption, reduce maintenance frequency, equipment stability and durability.
6. flexible to adapt to the environment: double cooling design to ensure that even if the equipment is placed against the wall can also be good heat dissipation, suitable for a variety of laboratory environments.

## **Working Principle**

Benchtop autoclave uses the thermal energy of high temperature saturated steam to rapidly heat the items in the sterilization chamber through the closed high-pressure environment. At the beginning of the sterilization process, the equipment first through the vacuum pump to extract the air inside the cavity, to avoid air to prevent steam penetration. then double steam generator to produce high temperature steam to fill the cavity, the use of latent heat of steam to kill microorganisms, including viruses, bacteria and their spores. Under high pressure, the steam temperature can reach 134°C, effectively destroying the protein structure of microorganisms and realizing complete sterilization. After sterilization is complete, the equipment starts a refrigeration program to lower the temperature of the chamber to ensure safe door opening.

Bowie Dick test is used to detect the steam penetration performance, Helix spiral test to verify the internal sterilization effect of complex instruments, vacuum test to ensure that the vacuum degree is up to standard, these tests to ensure the effectiveness and safety of each sterilization process.

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<b>Model</b>	<b>DA101-45</b>
Capacity	45L
Working Temperature	121°C, 134°C
Sterilization Grade	European Class B Standard
Special Sterilization	inactivation of HIV, HBV, Prions (e.g., BSE), and Bacterial Spores
Drying Program	powerful Vacuum Drying
Temperature Control Accuracy	±0.1°C
Pressure Control Accuracy	±0.1kPa
Tests	bowie-Dick Steam Penetration Test, Helix Test, Vacuum Leak Test
Sterilization Record	Equipped with a Printer and USB Interface for Recording the Sterilization Process
Safety	Safety valve, motor-driven self-locking door, pressure interlock

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<b>Model</b>	<b>DA101-45</b>
	system, fault self-diagnosis, over-temperature and over-pressure protection
Water Supply System	Built-in open-type water tank, clean water tank capacity: 7 liters
Sterilization Chamber Configuration	Three-layer removable tray rack with 3 trays
Chamber material	Medical-grade 304 stainless steel
Water Consumption per Sterilization Cycle	0.45L to 0.5L
Noise	less than 50db
Sterilization Chamber Dimensions	diameter 325x623mm
External Dimensions	758X640X580mm
Weight	90kg
Power Supply	220Vac, 50Hz, 2.8kw

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