

## BENCHTOP AUTOCLAVE



HUAXI 

## Working principle and ability

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The benchtop autoclave is mainly designed by using method of physical sterilization and the principle of humid-heat to kill microorganisms. Both the damage of heat to cell wall, cell membranes and the effect on nucleic acids can lead to the death of microorganisms, while humid-heat mainly coagulates microbial proteins and cause death. The implement of humid-heat sterilization can achieve a high level of effect and can accelerate the death process of microorganisms.



**Model: HX-AST-24**

**Effective Volume: 24L**

- The machine is equipped with built-in independent steam generator
- Built-in heating element in the chamber
- The external surface, bracket and chamber of the whole machine are made of corrosion-resistant stainless steel
- Temperature and pressure range: 140 °C
- Liquid crystal display controlled by microcomputer process
- Large number of programs that can be stored
- Password hierarchical access to avoid mistake operation
- Built-in memory can record up to 100 sterilization cycles
- Program timer
- Automatically add deionized water for generating steam
- PT-100 flexible temperature probe
- Second temperature probe at the cryopumping part
- The function of maintain temperature at the end of liquid sterilization
- Special sterilization program for Durham tubes
- Special pulsating heating for waste sterilization to exhaust air effectively
- Exhaust pipe has function of condensation and cooling with temperature control
- Automatic door opening after finishing the program

## Performance and parameters

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The steam is supplied by the steam generator / The built-in steam generator of the instrument is used to generate steam. This design has the following advantages:

- There is no heating element and sewage tank in the sterilization chamber
- With the preheating, the temperature in the sterilization chamber can reach 121°C in only 10 minutes
- Improve the exhaust of cold air in the sterilization chamber through pulsation heating (reach an ideal steam environment quickly)
- The temperature accuracy of the chamber sterilization is higher than  $\pm 0.3$  K
- Rapid cooling system does not require cooling water nor cooling steam generator
- After cooling, the hot steam can be used immediately to prepare for the next sterilization



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**Model: HX-AST-29**

**Effective Volume: 29L**

- The machine is equipped with built-in independent steam generator
- Built-in heating element in the chamber
- The external surface, bracket and chamber of the whole machine are made of corrosion-resistant stainless steel
- Temperature and pressure range: 140 °C
- Liquid crystal display controlled by microcomputer process
- Large number of programs that can be stored
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