



# ESV-xxV series

Vertical Vacuum Steam Sterilizer



**STERILIZATION**



## Features

Adopts microcomputer control technology, touch screen operation, the whole process (pulsating vacuum, heating, sterilization, exhaust steam, vacuum drying) procedures automatically run.

Touch screen automatically displays operating status, temperature, pressure, time and other parameters and fault alarm information. With 4 sterilization procedures including instruments, dressings, luminal instruments, rubber, liquid and custom, BD test and vacuum test for users to choose.

Built-in vacuum pump, three times (can be set) pulsating vacuum, vacuum degree up to -0.090 mpa can be fully pumped out of dressings and class A cavity instruments.

Built-in high efficiency steam generator can quickly produce constant pressure steam, do not pollute sterilized goods.

Vacuum drying system, fabric dryness less than 1%, instrument dryness less than 0.1% 0.22 $\mu$ m bacterial air filter ensure that the air breaking the vacuum is sterile air to avoid re-contamination. Printer included.

Optional configuration: real-time sterilization process and fault alarm information.

Safety device:

The over-temperature protection device: when the temperature of the pot exceeds the set temperature, the system automatically cuts off the heating power and displays an alarm.

Door safety interlocking device: only when the door is closed in place, the program can start; The door will not open when there is dangerous pressure in the inner chamber.

Double over-pressure protection: automatic pressure relief valve, pressure exceeds the design pressure, the safety valve opens to release pressure;

Over-pressure automatic protection control, pressure exceeds the set pressure, automatic exhaust pressure relief, display alarm.

Low water level alarm device: the water level is lower than the specified water level, automatically cut off the heating, display alarm.

1. Automatically controlled by computer, digital display of working status, touch type key.
2. Dynamically showed the temperature, pressure time and vacuum rate and the full cycle
3. Fully automatically route for water inlet, pulse vacuum, heating, sterilizing, draining, exhausting, vacuum drying.
4. 3 times pulse vacuum, which make the vacuum rate as -0.081mpa and ensure the high extracting of inner air from dressing, A.B type hollowed appliance.
5. With 4 fixed program for appliance, medical dressing, rubbers and fluid, and the user can also set the program as they need. Surgical instrument S/fabrics/glasses/BD test, SELF-DEFINE, self-setting ,culture media etc
6. Equipped with the PT/TT testing connector, easy to run the testing.
7. Multiple pulse vacuum drying after sterilizing, ensure the nice sterilizing.

## Specification

The vertical pulsating vacuum sterilizer uses saturated steam as sterilization medium, through the way of pulsating vacuum, the saturated steam can completely penetrate to the surface of the article, using high temperature saturated steam under high pressure to kill all microorganisms and their buds, the sterilization effect is reliable, is the most effective physical sterilization method. It is widely used in pharmaceutical, biological engineering, laboratory and other fields to sterilize fabrics, instruments, lumen instruments, rubber, liquid and other items.



- Design pressure: -0.1/0.3MPa;
- Rated working pressure: 0.23MPa
- Ultimate vacuum: -0.096MPa
- Pressure display accuracy: 0.1kpa
- Sterilization temperature: 105 ~ 138°C
- Temperature display accuracy 0.1°C
- Maximum temperature: 138°C
- Temperature uniformity:  $\leq \pm 0.5^\circ\text{C}$
- Time of sterilization: 0-60 min
- Time of drying: 0-60 min
- Chamber material: SUS304 stainless steel

## Specification

Model technical data	ESV-35V	ESV-50V	ESV-75V
Chamber volume	35L (Ø318×450) mm	50L (Ø340×550) mm	75L (Ø400×600) mm
Working pressure	0.22MPa		
Working temperature	134°C		
Max working pressure	0.23 Mpa		
Heat average	≤±1°C		
Timer	0~99min or 0~99hour59 min		
Adjustment of temperature	0~134°C		
Power	2.5KW/ AC220V.50Hz	3.2+1.6KW/ AC220V.50Hz	4.5KW /AC220V.50Hz
Overall dimension	600×410×1030 (mm)	650×410×1140 (mm)	730×510×1270 (mm)
Transport dimension	730×500×1170 (mm)	730×500×1290 (mm)	820×600×1380 (mm)
G.W/N.W	96Kg/ 77Kg	102Kg/ 83Kg	120Kg/98Kg

Model technical data	ESV-100V	ESV-120V	ESV-150V
Chamber volume	100L (Ø386×860) mm	120L (Ø450×760) mm	150L (Ø500×780) mm
Working pressure	0.22MPa		
Working temperature	134°C		
Max working pressure	0.23 Mpa		
Heat average	≤±1°C		
Timer	0~99min or 0~99hour59 min		
Adjustment of temperature	0~134°C		
Power	220V50Hz 5.4Kw	380V50Hz 7.2Kw	380V50Hz 9.3Kw
Overall dimension	566×708×1295 (mm)	620×760×1190 (mm)	730×510×1270 (mm)
G.W/N.W	124Kg/ 100Kg	159Kg/ 137Kg	247Kg/215Kg