

### **pulsating vacuum pressure steam sterilizer with handwheel**

Pulsating vacuum pressure steam sterilizer is an efficient and safe sterilization equipment, using high temperature and high pressure steam and vacuum pulsation technology to effectively kill microorganisms.

Pulsating vacuum pressure steam sterilizer is widely used in medical, pharmaceutical, laboratory and other fields, can efficiently disinfect and sterilize a variety of items, such as medical equipment, laboratory equipment and related items.

#### **Main Features of Pulsating Vacuum Pressure Steam Sterilizer**

1. handwheel pan-type quick-open structure: the equipment adopts handwheel pan-type quick-open design, which is convenient for quick opening and closing, and improves the working efficiency.
2. three times pulsating vacuum: the use of three times pulsating vacuum technology, can more fully exclude air and water, to ensure that the steam can be fully penetrated and sterilized, to achieve a higher sterilization effect.



3. high-quality stainless steel: the whole equipment is made of high-quality stainless steel, with strong corrosion resistance, high temperature resistance, to ensure the stability and reliability of the equipment in long-term use.
4. microcomputer automatic control: the equipment is equipped with a microcomputer automatic control system, according to the need to arbitrarily set the sterilization parameters, such as temperature, time and pressure, automatically complete the sterilization process.
5. safety interlocking device: equipped with multiple safety interlocking system, to ensure that the pulsating vacuum pressure steam sterilizer can not be started in the inappropriate circumstances, such as the door is not closed, the temperature is abnormal, etc., to prevent improper operation of the safety hazards.
6. LCD display and touch screen operation: equipped with LCD display and touch screen, intuitive operation, real-time display of equipment status, easy for the operator to monitor and operate.
7. standard test interface: provide standard test interface, convenient for external equipment connection and sterilization process monitoring.
8. Self-uplifting sealing: Adopting self-uplifting sealing technology to effectively ensure the sealing and prevent steam leakage, ensuring the efficiency and safety of the sterilization process.
9. drying function: equipped with drying function, after sterilization can be drying the items to ensure that the items are in good condition.
10. stainless steel drum or net basket: the equipment is equipped with stainless steel drum or net basket, according to the type of goods to choose the appropriate container for sterilization.

11. automatic protection functions: including over-temperature protection, over-pressure protection, low water level protection and anti-dry burning function, effectively avoid equipment damage due to failure or improper operation.
12. steam internal circulation and automatic water intake: the equipment is designed with steam internal circulation system, which can recycle the steam and reduce the waste of resources. automatic water intake function to ensure the smooth progress of the sterilization process.
13. external evaporator: external evaporator design helps to better control the evaporation of water and steam generation, to ensure the stability of the sterilization process.
14. the end of sterilization buzzer reminder: after the completion of sterilization, the equipment through the buzzer to send a reminder signal, while the automatic shutdown to ensure that the operator to remove the items in a timely manner.
15. automatic discharge of cold air and steam: after the end of sterilization, the equipment can automatically discharge cold air and steam, reducing the impact of heat on the items and the environment.
16. Built-in printer: Equipped with built-in printer, it can record the important data and parameters in the sterilization process, which is convenient for quality tracing and record management.

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Model	VA1-35M	VA1-50M	VA1-75M	VA1-100M
Capacity	35L	50L	75L	100L
Maximum Operating Temperature	134°C			
Temperature Setting Range	116°C to 134°C			
Maximum Operating Pressure	0.22Mpa			
Time Setting Range	4 to 120 minutes			
Drying Time Setting Range	0 to 240 minutes			

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Model	VA1-35M	VA1-50M	VA1-75M	VA1-100M
<b>Sterilization Chamber</b>	diameter	diameter	diameter	diameter
<b>Dimensions</b>	350x400mm	400x505mm	400x655mm	450x650mm
<b>Inner Cylinder Dimensions</b>	diameter 330x320mm	diameter 380x430mm	diameter 380x560mm	diameter 420x540mm
<b>Mesh Basket Dimensions, Optional</b>	diameter 320x350mm	diameter 360x280mmx1	diameter 360x280mmx2	diameter 410x300mmx2
<b>External Dimensions</b>	698x498x940mm	630x530x1180mm	630x530x1180mm	760x560x12600mm
<b>Power Supply</b>	220Vac, 50Hz, 3.5kw	220Vac, 50Hz, 3.5kw	220Vac, 50Hz, 4.5kw	220Vac, 50Hz, 4.0kw

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<b>Model</b>	<b>VA1-35M</b>	<b>VA1-50M</b>	<b>VA1-75M</b>	<b>VA1-100M</b>
<b>Weight</b>	<b>115kg</b>	<b>118kg</b>	<b>124kg</b>	<b>132kg</b>

**Advantages**

1. High-efficiency Sterilization: Through the double action of pulsating vacuum and high-pressure steam, it can eliminate the bacteria, viruses and other microorganisms on the articles more thoroughly and ensure the sterilization effect.
2. automatic control: microcomputer automatic control system can be set according to the needs of the parameters, the entire sterilization process without human intervention, reduce operational errors, improve efficiency and precision.
3. multiple security: the equipment is equipped with over-temperature, over-pressure, low water level and other multiple safety protection devices to protect the stable operation of the equipment.

4. resource saving: steam internal circulation design and automatic water inlet function reduces water and energy consumption, while avoiding unnecessary steam emissions, in line with environmental requirements.
5. a wide range of applications: applicable to all kinds of medical equipment, reagents, laboratory equipment and other items of sterilization, suitable for sterilization of demanding industries.
6. convenient operation: with liquid crystal display and touch screen, the operation is simple and intuitive, suitable for a variety of technical levels of operators.
7. drying function: drying function can effectively remove the moisture on the surface of the items, to prevent the sterilized items from moisture, to ensure the use of the effect.

### **Working Principle**

Pulsating vacuum pressure steam sterilizer sterilizes through the synergistic effect of vacuum pulsation and high temperature and high pressure steam. First of all, the equipment through three pulsating vacuum process will be sterilized room air and moisture discharge, to ensure that the steam can be evenly penetrated into the surface of each item. Then, the equipment automatically injects high-temperature steam to sterilize under a certain pressure. During the whole process, the microcomputer control system adjusts the temperature, pressure and time in real time to ensure the accuracy and stability of the sterilization process. After the sterilization is completed, the equipment automatically discharges steam and cold air, and at the same time carries out drying treatment to ensure the sterility and dry state of the articles.