

PRODUCT: RETORT STERILIZATION
Tank/Vessel/Pot (Back Pressure Type)

1. DESCRIPTION:

Back pressure Retort pot is a kind of small and medium-sized microcomputer program-controlled back pressure retort equipment. The sterilizer adopts electric heating method, and directly injects water into the sterilization chamber to heat, and generates high-pressure steam required for sterilization. After the sterilization is completed, external compressed air and water pressure are used for rapid cooling for 3 minutes, and the contents of the cylinder can be lowered to 30-40°C. The sterilizer is equipped with program control and can perform two types of operations: boiling disinfection and rapid cooling pressure sterilization. The boiling range is set at $\leq 100^{\circ}\text{C}$. The temperature of the rapid cooling pressure sterilization range is pre-selected between 101°C and 134°C; and it is equipped with heater overload protection and buzzer alarm performance at the end of sterilization. It is easy to operate, safe and reliable. This product is suitable for the disinfection and sterilization of food packaging, utensils and instruments. It is especially suitable for ideal equipment for sterility test in food research institutes.

2. Working Principle of Retort Process

This product is designed with two principles of disinfection and sterilization; in this way, it can provide customers with dual-use equipment. Direct heating with heater to generate pressure steam. The pressure steam reacts with the microorganisms on the sterilized item, destroying its structure and achieving the purpose of sterilization. When the rapid cooling and sterilization program starts; first, inject 6 liters of external tap water into the cylinder, and heat it for about 25 minutes to enter the sterilization holding time. **The sterilization time is 35-40 minutes.** At the end, 0.24MPa compressed air and water pressure are manually injected into the cylinder, and then the 1/2 drain valve is opened to drain, and the flexible packaging and other items are back pressure cooled. Quickly cool for 3 minutes, manually shut off the entry of compressed air and tap water, and the contents of the cylinder can drop to 30-40°C.



3. Requirements for the environment and working conditions of this product

- 1) Ambient temperature: 5~40°C;
- 2) Relative humidity: ≤80%;
- 3) Atmospheric pressure range: 86~106kPa;
- 4) Power requirements: AC220V±22V, 50Hz±1Hz (there should be a grounding wire that must meet the conditions)
- 5) Water source pressure: 0.15 ~ 0.2 5MPa (must meet the conditions)
- 6) Air source pressure: 0.24 MPa constant pressure (must meet the conditions)

Transportation and storage conditions:

- 1) Ambient temperature: -10~50°C;
- 2) Relative humidity: 10%~90%;
- 3) Atmospheric pressure range: 50~106kPa.

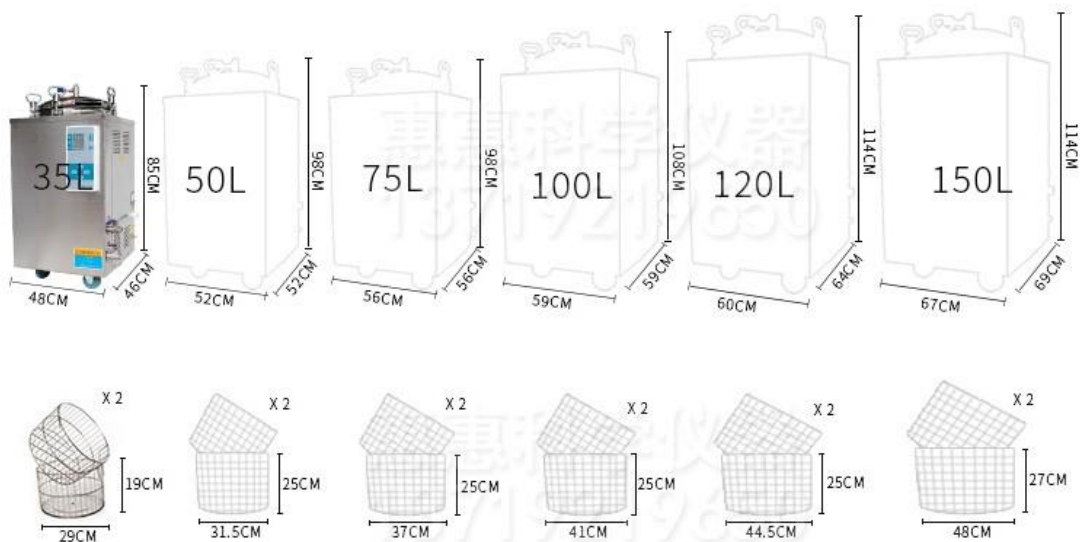
This product is equipped with a safety valve, with a steam overpressure of 0.25MPa and self-relief. When the temperature reaches 140°C, the power supply will automatically cut off. Double safety protection, water and overheat protection, current overload automatic cutoff safety interlocking device protection, safe and reliable use.

4 .Performance characteristics

- a) Equipped with pressure/temperature controller, the pressure setting range is 0.07 ~ 0.22MPa (corresponding to the saturated steam temperature of 115 ~ 134°C).
- b) Equipped with a timer to automatically control the sterilization time.
- c) Equipped with a safety valve, a steam release valve and a mechanical pressure/temperature gauge. When the sterilization pressure exceeds the maximum allowable pressure, the safety valve automatically releases the pressure; the steam release valve is used for manual pressure release; the mechanical pressure gauge is dual pressure and temperature Scale dial.
- d) The immersion electric heating tube is used, which has the function of preventing dry burning. When the water level is lower than the specified water level, the sterilizer will automatically cut off the heating power and send out an alarm signal at the same time.

Technical Parameter:

MODEL	WORKING VOLUME (L)	WORKING PRESSURE (MPa)	WORKING TEMP. (°C)	POWER (kW)	TIMER SET RANGE (min)	PRES/TEMP RANGE SET (MPa/°C)	DIMENSION (cm)	GROSS/NETT WEIGHT (kg)
W-F760-35LD	35	0.22	134	1x2.5	0~99	0.07~0.22/ 115~134	48x46x85	56/42
W-F760-50LD	50			2x1.5			52x52x98	65/55
W-F760-75LD	75			3x1.5			56x56x98	90/70
W-F760-100LD	100						59x59x108	105/85
W-F760-120LD	120			3x2			60x64x114	125/100
W-F760-150LD	150						67x69x114	135/110



*SS304 Basket Included