

# FLOOR TYPE AUTOCLAVE STERILIZER

*A highly safe sterilizing product with stable function, suitable for major hospitals, clinics and biochemical research laboratories etc.*



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# FLOOR TYPE AUTOCLAVE STERILIZER

## Purpose:

The steam sterilizer is a highly safe sterilizing product with stable function, suitable for major hospitals, clinics and biochemical research laboratories etc., for the sterilization of instrument, cloth, glassware and liquid etc.

The inner chamber is designed to be made of #304 stainless steel, and the outer chamber and the door cover is to be made of #304 stainless steel. The outer layer will be separated by thermal insulation wool for heat preservation. The outside is covered by rectangular stainless steel sheets which provides a more aesthetic appearance and heat preservation.

Stainless steel door with radial lever can effectively lock the door cover tightly and prevent steam leakage

Silicone door gasket is high- temperature resistant, durable, and without deformation.

Indicator: Displays the processing status of the sterilization process according to its sequence when the machine is operating.

## Practical Sterilization Function:

- 1.Preset Vacuum Function is able to shorten the sterilization time.
- 2.Vacuum drying function is able to remove unwanted moisture quickly, and to reach the Bowie Dick t est criteria.
- 3.Cloth / apparatus / liquid, Sterilization Functional Switch Mode can be selected to switch according to different kinds of materials to be sterilized.
- 4.Auto Water Supply Device: Electrical control system is able to detect and sense the water volume automatically. Upon insufficient water volume, it will supply to high water level automatically. Use equipment for soft water purification can prolong the life cycle of sterilizer.

## Safety Devices:

- 1.Auto Power-Off Protection Device for water shortage, when water runs out, the electrical control system will automatically cut off the heating power to prevent heating device from overheating, dry-out or even meltdown.
- 2.Pressure Controller, the maximum pressure in the boiler is limited to  $2.2 \pm 0.1\text{kg/cm}^2$ . When the pressure reaches the set value, the heating power will be automatically off to prevent the pressure from rising.
- 3.Safety Valve, when the pressure reaches  $2.8\text{kg/cm}^2$ , it will start a rapid exhaust of steam and release the pressure from the chamber.
- 4.Pressure Lock, when the pressure of inner chamber exceeds  $0.2\text{kg/cm}^2$ , the clutch will be locked automatically, and the door cover will not be able to be opened, in order to keep the operator safe.
- 5.Safety Switch of Door Cover, when the door cover is opened, the steam in the outer chamber is unable to enter the inner chamber. It cannot be operated normally unless the door cover is closed tightly.

## Simple Operation Interface:

- 1.Digital LED electronic timer is able to control the working hours of sterilization and drying precisely within the range of 0~99 minutes
- 2.Digital LED electronic temperature controller is able to set the required working temperature quickly, and show the current temperature status of inner chamber. The highest setting temperature is  $134^\circ\text{C}$  ( $218.47^\circ\text{F}$ )
- 3.The temperature recorder can monitor and record the time and temperature during the whole process of sterilization
- 4.The pressure gauge of inner and outer chambers is able to clearly show the current working temperature status of interior of sterilizer.



5.The opening and closing of turning type door cover is easy to operate.

The highest sterilization temperature is  $134^\circ\text{C}$  ( $218.47^\circ\text{F}$ ), and the pressure value for sterilization is able to reach up to  $2.2\text{kg/cm}^2$  ( $2.16\text{ bar}$  or  $31.29\text{psi}$ ).

Heating device with high power takes 20 minutes to complete sterilization under  $121^\circ\text{C}$ , or 15 minutes under  $132^\circ\text{C}$ .

## The preparation steps for sterilization function shown as following:

### Fully-automatic operation-

put the items to be sterilized inside, and close the door cover set mode (Cloth / apparatus / liquid) / temperature/time turn on the power/activate the switch supply water automatically heating preset vacuum for 3 times sterilizing steam exhaust for inner chamber vacuum drying completion

## Function list

Function	operating system	Automatic and vacuum drying function	Function	operating system	Automatic and vacuum drying function
Timer		99Minutes x 2pcs	Chamber Design		ASME STANDARD
steam exhaust valve outer chamber		YES	Chamber material stainless steel #304(optioned#316)		Optional
Dry valve inner chamber		YES	6 Points Temperature Recorder		CAN BE OPTIONED
water Level Control & Protection		YES	Optional Accessories		ST.ST. BASKET TRANSPORTATION (TRAY x 2, FRAME x 1)
safety door lock activated by pressure		YES	standard Accessories		ST.ST. #304 TRAY x 1 pcs
Preheating function		YES	Construction		ST.ST. #304 HOUSING FRAME, DOOR, CHAMBER AND JACKET
Auto water filling		YES	control System		TEMPERATURE DISPLAY TEMPERATURE CONTROL SYSTEM
sterilization function		YES	Safety Device		PRESSURE PROTECTION SWITCH TEMPERATURE CONTROL SWITCH WATER LEVEL CONTROL SYSTEM LOW WATER INDICATION/CUT-OFF SAFETY VALVE, DOOR ALARM PRESSURE DOOR AUTO-LOCK Emergency off, EMO
Low water indication cut-off		YES	Life Time		7 YEARS
Pressure Control Switch		YES			
Temperature Control Switch		YES			
Pre-Vacuum Function		YES			
Dry-Vacuum Function		YES			
Glass & Liquid sterilization function		YES			
Using Temperature		$121^\circ\text{C} \sim 134^\circ\text{C}$ ( $1.1 \sim 2.2\text{kg/cm}^2$ ) ( $250^\circ\text{F} \sim 273^\circ\text{F}$ ) ADJUSTABLE			
Design Temperature		$140^\circ\text{C}$			

Model	External DIA L.W.H.(cm)	Chamber ØxD(cm)	Capacity (Liter)	Power Consumption(Kw)	Max Sterilization Temperature( $^\circ\text{C}$ )	Operate Pressure ( $\text{kg/cm}^2$ )	N.W. (Kg)
TC-750	163x105x206	75x120	530L	24	$134 \pm 2$	$2.4 \pm 0.1$	415
TC-615	183x90x190	60x150	424L	24	$134 \pm 2$	$2.4 \pm 0.1$	355
TC-612	153x90x190	60x120	339L	18	$134 \pm 2$	$2.4 \pm 0.1$	300
TC-600	135x90x190	60x100	283L	13	$134 \pm 2$	$2.4 \pm 0.1$	255
TC-500	135x78x185	50x100	196L	12	$132 \pm 2$	$2.4 \pm 0.1$	215
TC-459	110x70x164	45x90	143L	9	$132 \pm 2$	$2.2 \pm 0.1$	170
TC-409	109x65x160	40x90	113L	9	$132 \pm 2$	$2.2 \pm 0.1$	140
TC-336	82x56x158	33x66	56L	6	$132 \pm 2$	$2.2 \pm 0.1$	97

**AC 220V 1P, 220V 3P, 380V 3P, 50/60Hz (please specify when ordering)**  
**TC-500, TC-612, TC-600, TC-615, TC-750 : 380V 3P phase only**

**AMPERE conversion formula**  
**(1-phase → 3-phase) Wattage/ Voltage | 1.732=Amp for 3-phase**