

LABSTAC



OPERATION MANUAL
PORTABLE AUTOCLAVE

AUT41-24

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01. Summary

The Portable pressure steam sterilizer have advantages of Thorough sterilization, effective, easy operation,safety in use,electricity saving, High Quality And Inexpensive.

Main intended uses: for clinical institutions to use medical equipment for steam sterilization.

The main working principle of this product is using steam as sterilization factor to kill load microorganism.

02. Structural Characteristics

1. The sterilizer is portable type, it is consist of handle, the sterilization chamber cavity , The outer barrel, sterilizer and barrel cover is made of stainless steel material.
2. Container cover with safety valve, discharge valve. The safety valve pressure exceeds 0.14 MPA can automatically release the pressure, the performance is reliable, open the upper steam before sterilization steam valve can discharge cold air when sterilization finish.
- 3.The container cover with double scale pressure gauge with pressure and temperature reading indication.

03. Technical Parameters

- 1 Use AC power: 220V, frequency 50HZ; power: 2KW;
- 2 Rated working pressure: 0.142MPa; rated working temperature: 126 °C;
- 3 Sterilizer net weight not exceeding 25 kg;
- 4 Safety category: I class B general equipment (not to prevent liquid into the closed device);
- 5 Running mode: short load continuous operation;
- 6 Normal working conditions: ambient temperature range: +5 °C to +40°C; relative humidity range: not more than 80%;
Atmospheric pressure range: 70kPa ~ 106kPa.

04. Safety Information

1. Please refer to the manual before use
2. The equipment according to electric shock protection for class I, can not be used in flammable and explosive anesthetic gas environment.
3. No use equipment over pressure.
4. Warnings "steam not exhausted, may not open": after sterilizer, Don't open the container cover before the pressure gauge not back to zero position. otherwise easily cause steam burns.
5. Pressure gauge, safety valve, steam valve before the first use must be sent to qualified units for calibration, the use of the process must be regularly re calibration (recommended every 12 months).
6. The user according to the product specification and nameplate parameters, connect equipment with power supply, The equipment should be reliable grounding protection to avoid equipment shell charged caused by accidents casualties.

05. Usage Method

Notes: The operator should focus on the equipment operation situation during the equipment working, can leave after sterilization finished , pressure relief and power failure.

- 1) Machine must placed in level surface in order to ensure the sterilizer can work normally,
- 2) Open the equipment cover and take out the sterilizing chamber (see electric heating pipe, heating pipe), to pour more than 3.5 liters of water, each must replenish the amount of water use, to avoid damage due to lack of water and electric heating tube.
- 3) Goods shall be properly covered and the order of the sieve into sterilization barrel, leaving a gap between each other. Conducive to steam penetration, improve sterilization effect. Safety valve, vent valve vapor hole do not plug, and finally cover the lid, diagonally tighten screws.
- 4) Confirm the power supply specifications and equipment requirements of the same type, and requires reliable grounding, before plug in power supply.
If the use of electric furnace or other heating source, should be removed after the power line is arranged in the heating source above the heating sterilizer.

- 5) After equipment work, when the steam pressure rose to (0.142 ~ 0.165) MPa or so, relief valve pressure to maintain a certain pressure.
- 6) After sterilization, please unplug the power cord. After 2 to 3 minutes to open the exhaust valve exhaust, to the pressure gauge to zero back to open the lid after the exhaust steam.

06. Attention and Maintenance

1. The equipment shell should be good grounding, and often check whether good, lest accident.
 2. The equipment should be placed in ventilated, dry, flammable and explosive indoor.
 3. Stacked sterilization items, is strictly prohibited to plug the vent valve, must leave room to ensure the smooth flow of equipment, otherwise the safety valve can not work because of air hole blockage, causing accidents.
 4. Sealing ring do not attach oil, so as not to damage the rubber strip caused by leakage phenomenon.
 5. Check whether the amount of water in the sterilizer is kept at the foot before each use.
 6. Sterilization liquid, should be liquid filling in the hard heat-resistant glass bottle, with no more than 3/4 volume as well, selection of cotton yarn bottle plug, do not use non perforated rubber or cork.
- Attention: After sterilized liquid is not allowed to immediately release steam, must exhaust air when pressure gauge pointer back to zero.
7. Different types, different sterilization requirements of items, such as dressing and liquid, do not put together in order to avoid losses caused by sterilization, care for this and lose that.
 8. Prohibited to contact with the steam medium explosion or sudden pressure caused by chemical sterilization.
 9. At the end of sterilization, the pressure gauge must return to zero position, the steam valve will be placed in the steam release position. The outside air into the vacuum sterilizer, eliminated, container cover can be opened.
 10. Pressure gauge is used for a long time after the pressure indication is not correct or not reset to zero, should be timely maintenance, usually should be regular and standard gauge contrast, if not normal, should be replaced with new table.

11. Keep the equipment clean and dry to extend the service life, Rubber seal will ageing after

long time use, it should be replaced regularly.

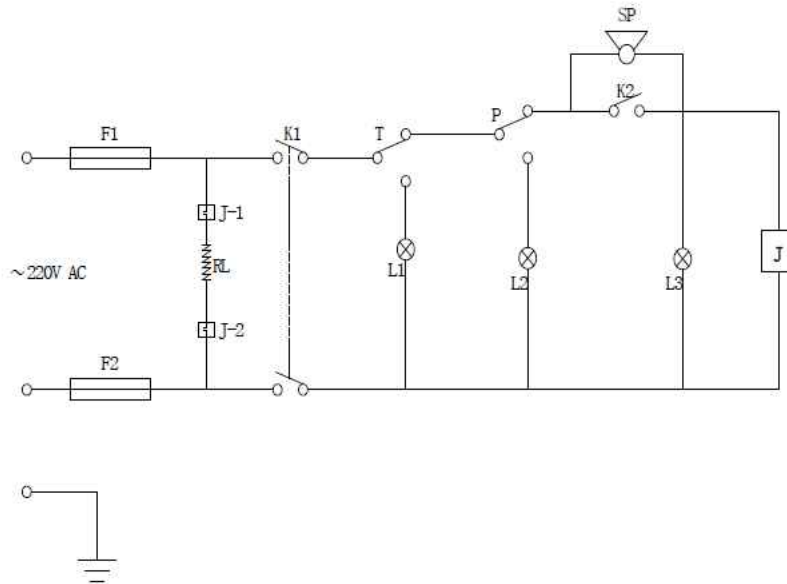
12. In use, when the pressure gauge is more than 0.165MPa, the safety valve does not start, should immediately cut off the power supply, open the valve, when the pressure gauge 0MPa wait 1 to 2 minutes, open cover and replace the valve and open the container.

13. Transportation storage environment:

Ambient temperature range: -40 °C~ +55 °C; relative humidity range: not more than 80%;

Atmospheric pressure range: 50kPa ~ 106kPa.

14. This product and accessories in its service life (8 years) (production date see product body label) at the end, should take the initiative to have qualified qualified units or individual recycling.



Schematic diagram of electrical apparatus

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|--------------------------------------|-------------------------|---------------------------------------|
| K1: POWER | K2: 0~300°C heat switch | L1: end sterilization indicator (red) |
| J: 220V high power relay | SP: buzzer | P: pressure control |
| L2: sterilization indicator (yellow) | F1 F2: 15A fuse | RL: heating tube |
| T: calculator | | L3: working indicator (green) |



Fault Handling

Number	Fault phenomenon	Reason	solution
1	Plug in but no power	1.Power line broken 2.Plug damage	1. change power line 2. change plug
2	Shell is charged or not warming, not boosting at working	1.Not well plug in 2.Heating tube broken	1.Check plug 2.Replace heating tube
3	Steam in pressure gauge	Leakage of joint	Screw up
4	Safety valve take off when the pressure haven't reach specified	Safety valve leak or broken	Replace safety valve
5	Panel display working, heating lamp light, but not warming, not boosting	Heating tube or 40A solid state relay damage	Replace it



LABSTAC

LABSTAC LTD.

Email: contact@labstac.com

Website: www.labstac.com