Model YX-18LM

PORTABLE PRESSURE STEAM STERILIZER



USER'S MANUAL

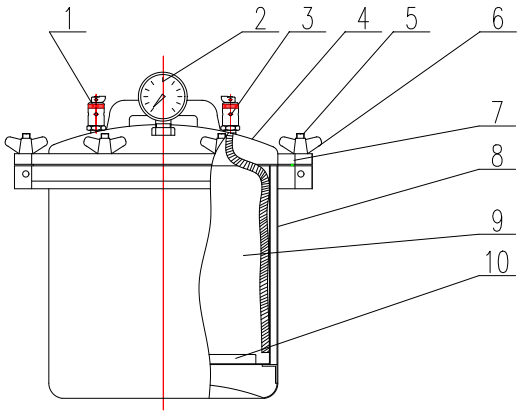
MODEL YX-18LM PORTABLE PRESSURE STEAM STERILIZER

Ⅰ Applications

The product uses saturated steam to rapidly and efficiently sterilize articles. It can be used in hospitals, public health centers, health stations, clinics in factories and mines, scientific research institutes, etc, to sterilize medical equipment, surgical dressings, glass utensils, solutions, substrata. It can also be used as cooker in plateau areas and be used to make high quality drinking water in industrial and mining enterprises.

Structure Figure of Product

1. Safety valve
2. Pressure gauge
3. Air releasing valve
4. Lid
5. Bolt
6. Wing nut
7. Gasket
8. Container
9. Sterilizing drum
10. Sieve plate



Ⅱ Structure Characters

- The product is heated by the immersed electro-thermal tube. It featured to quick rise temperature and low power consumption (saving about 50% of energy as compares with electric stove).
- The container is made of 0Cr19Ni9 (stainless steel), which is not only alkali & acid proof but also more than 3 times more tensile and compressive than aluminum alloy, ensuring safety and service life.
- The lid is equipped with safety valve and air releasing valve. When the steam pressure exceeds 0.16MPa, the safety valve can automatically release the pressure that is too high, having double safety function and featuring safety and reliability in use. The lid is also equipped with a pressure gauge with megabar and temperature readings, which conveniences the user.

Ⅲ Technical Parameters

1)Volume of the sterilizing drum:0.018 m^3；

2)Rated working pressure: 0.14~0.16MPa；

3)Max. safe pressure: 0.165MPa；

4)Voltage: AC220V50HZ;

5)Power of the electro-thermal tube: 2kW.

Table of the time, pressure and temperature for various kinds of articles to be sterilized

Articles	preservation time	Steam Pressure(gauge pressure)			℃ Relative Temperature
		MPa	Kgt/cm^2	lbf/in^2	
Rubber	15	0.11	1.1	16	121~126
Fabrics	30~45	0.105~0.14	1.05~1.4	15~20	121~126
utensils	15	0.105~0.14	1.05~1.4	15~20	121~126
Instruments	10	0.105~0.14	1.05~1.4	15~20	121~126
bottled liquid	20~40	0.105~0.14	1.05~1.4	15~20	121~126

Ⅳ Usage Method

1) Pouring water: Pour 3.5 liters of water into the container and be ready for use. As sterilization will consume certain amount of water, add water to the rated amount before using again, otherwise the electro-thermal tube will be damaged owing to shortage of water.
2) Piling: Put the articles to be sterilized on the sieve plate in the sterilizing drum, properly wrapped up, leaving certain space between the bundles so as to let the steam penetrate, thus guaranteeing sterilizing quality.
3) Sealing: Put the sterilizing drum into the container and then insert the hose (on the lid) into the half-round slot in the sterilizing drum. Making alignment of the lid and the bolt slot on the container and evenly tightening the wing nuts to make the lid and container closely fit each other.
4) Heating: Connect sterilizer to power AC 220V. displays the beginning of heating, and at this time air releasing valve should be opened to let cold air out. When the steam urgently jets out from the air-releasing valve, then close it. With The heating, the pointer of pressure gauge will indicate steam pressure in the sterilizer.

5) Sterilization: When steam pressure reaches the requested pressure of sterilization, begin to account the needed time of sterilization. When steam pressure rises up to 0.14MPa, safety valve starts to operate automatically so as to keep the constant pressure. If needing the pressure below 0.14MPa to sterilize, you can control the power switch (on or off) by hand to keep constant pressure when the pressure reaches the requested range.

6) Cooling: When complete the sterilization, cut off the power. Waiting for the cooling till the readings of pressure gauge returns to zero then open the air releasing valve and the lid. Donut release steam or open the lid immediately to avoid the boiling liquid to flow out the container or to exploding to injure persons.

Ⅴ Safety Measure and Maintenance

1. This sterilizer is steam pressure vessel so do not impact in using and forbid overpressure. If the pressure pointer of pressure gauge reaches the 0.165MPa and the safety valve does not exhaust, it should stop using at once and check up the safety valve.
2. The pointer should be at zero position before usage the pressure gauge, otherwise the gauge has been failure and it should repair or replace the gauge. The pressure gauge should be regulated 1~2 times per year, ensuring sensitiveness and correctness.
3. Drain the water inside the container and condensing water below the sieve plate and had better wipe out water and deposit on the electro-thermal tube in order to benefit the sterilization quality and prolong the working life.

Gasket is easy to wear. If it does not wok well, see it whether become aging and hard, then replace it in time.