



Portable Steel

Autoclave LB-41SPA

Index

Sr. No	Title	Page no
1.	Safety Measures	2
2.	Introduction	3
3.	Features	3
4.	Specifications	3
5.	Applications	3
6.	Instrument Introduction	4
7.	Operations	5

1. Safety Measures

- This sterilizer is a steam pressure vessel so does not impact in use and forbids overpressure. If the pressure pointer of the pressure gauge reaches 0.165MPa and the safety valve does not exhaust, it should stop using it at once and check the safety valve.
- The pointer should be at zero position before using the pressure gauge, otherwise, the gauge has failed, and it should be repaired or replaced with the gauge. The pressure gauge should be regulated 1~2 times per year, ensuring sensitivity and correctness.
- Drain the water inside the container and condense water below the sieve plate and better wipe out water and deposit on the electro-thermal tube to benefit the sterilization quality and prolong the working life.
- A gasket is easy to wear. If it does not work well, see it becomes aging and hard, then replace it in time.

2. Introduction

Portable Steel Autoclave LB-41SPA is a benchtop sterilizing unit with auto controlled electric heating mode. The self-inflating seal ensures air tight sterilization. It is characterized with a microprocessor controlled temperature and time system.

3. Features

1. Dual scale numerical pressure gauge
2. Auto-discharging on over pressure
3. Automatic alarm indication on over rise in temperature
4. Operational convenience due to axially rotational interior
5. Auto power cut off in case of low water
6. The locking mechanism prevents spillage
7. LED display for visual monitoring of the data

4. Specifications

Model No	LB-41SPA
Capacity	24L
Heating mode	Electric heating
Disinfecting pressure	0.14 MPa ~ 0.165 MPa
Working temperature	126 °C
Timer	0 ~ 9999 mins
Power	2 KW
Voltage	110 V; 60 Hz
	220 V; 50 Hz
Dimensions	390 × 390 × 650 mm
Weight	22.5 kgs

5. Applications

Used in sterilizing glass apparatuses, metal instruments, biological products, utensils, medical appliances, culture media, etc. in the fields of botany, zoology, biochemistry, forensic, pharmaceuticals, cytology, immunology, genetics, bioengineering, health and sanitary, etc.

6. Instrument Introduction

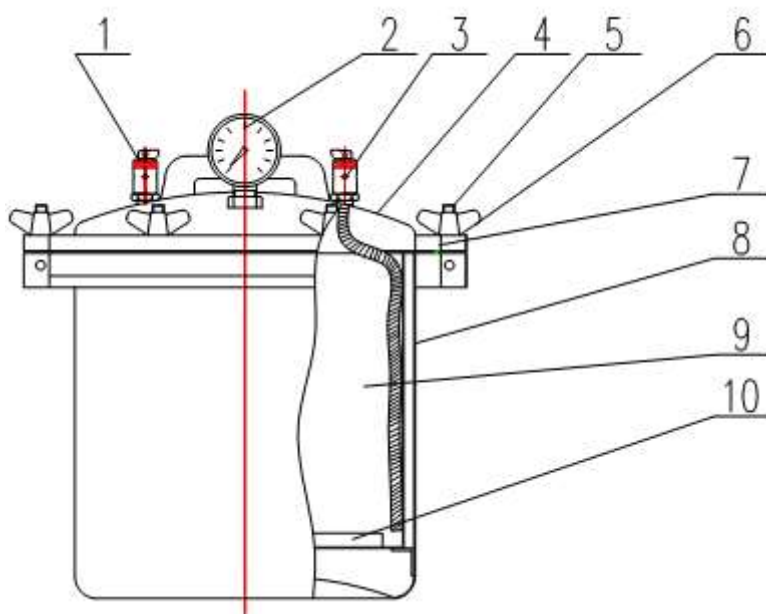


Figure-1

- 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

7. Operations

- 1) **Pouring water:** Pour 3.5 liters of water into the container and be ready for use. As sterilization will consume a 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 a certain space between the bundles 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 the 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 the pressure gauge will indicate steam pressure in the sterilizer.
- 5) **Sterilization:** When steam pressure reaches the requested pressure of sterilization, begin to account for the needed time of sterilization. When steam pressure rises to 0.14MPa, the safety valve starts to operate automatically to keep the constant pressure. If needing 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 the sterilization, cut off the power. Waiting for the cooling till the readings of the pressure gauge return to zero then open the air releasing valve and the lid. Donuts release steam or open the lid immediately to prevent the boiling liquid from flowing out of the container or exploding to injure people.



Labotronics Scientific. 1007 N Orange St., Wilmington, DE 19801, USA.
info@labotronics.com | www.labotronics.com