

Model DW-B35L

Hand Wheel & Digital Vertical High Pressure Steam Sterilizer

User Manual



Please read operating manual before installation and operation.

Drawell International Technology Limited

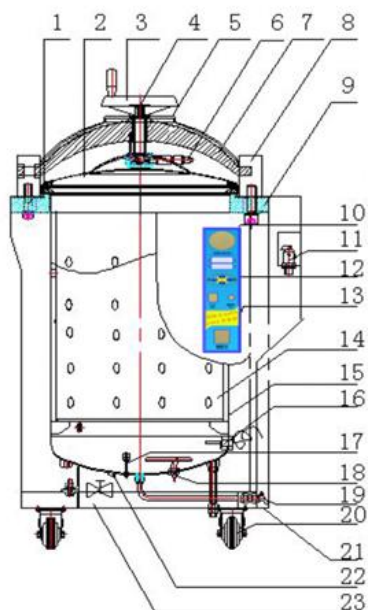
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Sketch diagram

1. Silicone seal.
2. Lid of container
3. Hand Wheel
4. Screw
5. Anti-hot housing
6. Pressure self-locking
7. Carrying pole
8. Column
9. Lower Flange
10. Pressure gauge
11. Safety valve
12. LED screen
13. Switch
14. Sterilization barrel
15. Outer barrel
16. Temperature sensor
17. Water gauge
18. Electric Heating tube
19. High pressure faucet
20. Universal wheel
21. Under discharge valve
22. Over-temp. protect
23. Housing



Warm Tips

- Before using, please read these instructions thoroughly and keep properly for your future reference and service
- Our company will be irresponsible for the human factors, such as the damage and malfunction caused by installing, using and moving the machine improperly .
- When the pressure gauge pointer is over 0.165 Mpa and safe valve is still not exhausting, please stop using it immediately and check its sensitivity. Please do not hit the sterilizer container during using. Over-pressure use is forbidden. To make sure its accuracy please check pressure gauge 1-2 times per year .
- Autoclave should be kept clean and dry in daily use. After using, please empty the container's water and wipe water scale so that the machine can be used longer.
- Please check seal ring often in case there is any wear and aging, and replace it in time to ensure the sealing performance.

1.1 Application

The sterilizer applies to medical and health , scientific research, agriculture and other institutes;it can sterilize medical equipment, dressings, glassware, solution culture medium and so on.

2.1 Structural Features

- The sterilizer has features such as modern design, small size, large volume, fast heating, fully automatic control for the sterilization process, digital control and light indicator to show working status and audible and visible alarm and so on.
- The main body of sterilizer is made of high quality stainless steel, which can resist acid, alkali, corrosion and so on.
- Equipped with a safety valve on the sterilizer. When the steam pressure reaches 0.14- 0.165 Mpa, the safety valve can automatically release the excess pressure. It is also equipped with pressure self-locking device.If there is pressure in the sterilizer, the door can not be opened. With double security function to keep more reliable security。
- When it finishes the appointed sterilization time , the digital screen will show“End”,the buzzer alarm will also remind you that the working is completed.

- Sterilizer has electric leakage protector, so when leakage occurs, the device can automatically cut off the power to ensure operators' safety.
- With Universal wheels under the machine to help move easily.
- With over-temperature protect function, so when temperature is over than appointed temperature, power will be cut off automatically.

3.1 Technical Data

- Sterilization capacity: 35L
- Max working pressure: 0.22 MPa
- Working Temperature: 100-134°C
- Time scope: 0-9999min
- Power: AC220V/50Hz/2.5 KW

4.1 Use Method

4.1.1 Filling Water

Take out the sterilized bucket, fill water into the container until water is higher than the water level (level float ball floats 2mm-3mm), then it can be used. If the water exceeds the bottom exhaust hole, the excess water will be discharged from the bottom discharge port. If water is lower than the water level, the controllers will refuse to work, alarm will show water shortage .

4.1.2 Pile Up

Put the disinfect items which is well classified and wrapped into sterilizing container. There should be gap between wrapped objects to help steam penetration and improve the quality of sterilization.

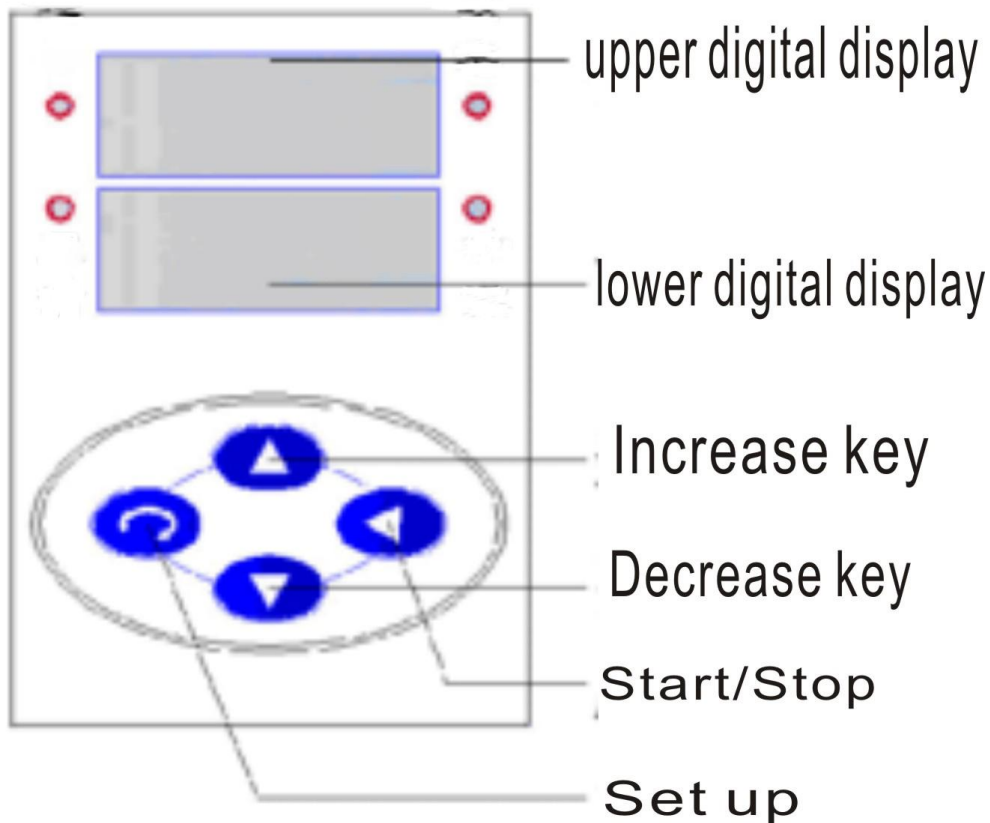
4.1.3 Sterilizer Seal

Move the door right above the sterilization barrel, tighten the hand wheel clockwise, to make container lid and the container body tightly sealed and until no air leakage.

4.1.4 Heating

- Insert the power cable into the matched power supply, turn on the leakage protection switch, open the exhaust valve, press the start switch.
- When the temperature rises to 100 °C, shut down the bottom exhaust valve.
- The upper digital display screen shows the actual measured temperature inside sterilizer, the lower digital display screen shows the setting temperature of sterilization .

Lights and buttons



- Operating indicator light: It will flash when the machine works
- Sterilization indicator light: It will light when sterilized in the sterilized state;
- Water shortage indicator light: It will light when water shortage;
- Temperature Rise indicator light: It will light when temperature rises;
- Set key : Used to modify the settings data and adjust the functions ;
- Increase key: Used to modify the setting data and control specification and

check operating time;

- Decrease key: used to modify the setting data about each specification ;
- Start / Stop button: Press to start / stop control.

① Press the set-up button once

The upper digital display screen shows temperature code (SP), the lower digital display screen shows temperature data; Press the increase / decrease keys to adjust to the required sterilization temperature. (The initial temperature after you start up the machine is the temperature you set last time)

② Press set-up button twice

The upper digital display screen shows time code (ST), the lower digital display screen shows time data; Press the increase / decrease key, adjust to the required sterilization time, When ST shows "0", the controller will cancel timing function (The initial temperature is the temperature you set last time).

③ Press set-up button three times

The upper digital display screen shows time code (GST), the lower digital display screen shows drying time data. Press the increase / decrease keys to adjust the required drying time .When GST is "0", the controller will cancel the timing function (The initial temperature is the temperature you set last time).

④ Press the setting key one more time

To confirm the setting parameters, then back to the main digital interface (the upper digital display screen shows the actual measured temperature inside the barrel, the lower digital display screen shows the set sterilization temperature).

⑤ Press the start / stop button

Press the start button, the machine starts to sterilization work, running/operating lights flashes. Sterilizer automatically rises the temperature, counts time and finishes. After finishing, audible and visible alarm will remind.

(1) If you want to cancel the sterilization Command, pls press the start / stop button for 3 seconds, the controller will immediately stop working and the buzzer alarm will remind, then you can press any key to keep it silent.

(2) If the machine is lack of water during operation, the controller will automatically stop working, alarm will show "----", the water shortage light will remind you that it is lack of water. Press any key to keep it silent. (If want it to continue working, have to wait the pressure gauge to be zero, and then fill rated water)

(3) If any emergency situation occurs during operation, pls press the stop switch in time. Then cut off the power and restart the machine after

troubleshooting.

4.15 Exhaust phase

When finish sterilizing, the buzzer will alarm . Digital display screen will show "End"and then The system automatically open the exhaust pressure Until the pressure gauge to zero.

4.16 End

After finish sterilizing, please turn off the power and check the pressure gauge pointer to zero, and then open lid of the container.

5.1 Use and maintenance instructions

- Operator must use machine according to these instructions to avoid accidents.
- Make sure the container's water volume.If water level is too high,the dressing will be over-wetting and it will waste power. If the water level is too low ,the machine will not work properly.
- After finish sterilizing every time, please turn off the power.
- When sterilize the solution, pls pour the solution into high temperature resistant glass bottle.Pour 3/4 solution into the bottle and plug the bottleneck with gauze.And do not use airproof or stuffy bottle stopper . Also put the solution bottle into a container or vessel which can accommodate solution

amount so that if the solution bottle burst during sterilization process ,it will not harm other items.

- After stopping using autoclave every day,empty the waste water inside the container when the container is still hot and wipe the water scale in the container so that to improve the quality of disinfection and sterilization and save energy and extend service life. If there is too much water scale inside the container and can't be wiped,please use the following solution to clean.Volume ratio: 10 kg of water, 1 kg of caustic soda, 0.25 kg of kerosene into a container, soak for 10 hours, then wash the water scale, and finally rinse with water.
- The sealing washer will get aging when use for long time and it will affect seal effect ,by this time should replace the old sealing washer.
- Test pressure gauge at least once every year , if the pointer can not be back to“0”, please find professional personnel to maintenance or update.

Different Sterilization Type Goods Sterilization Temp And Time Refer Table

Sterilization Type	Time	Pressure Gauge(Pressure)			Temperature
		Mpa	Kgf/sq.cm	Pound/sq . in	
Rubber	15	0.11	1.1	16	121-126°C
Dressing	30-45	0.105-0.14	1.05-1.4	15-20	121-126°C
Utensils	10	0.105-0.14	1.05-1.4	15-20	121-126°C
Medical Devices	15	0.105-0.14	1.05-1.4	15-20	121-126°C
Bottled solution	20-40	0.105-0.14	1.05-1.4	15-20	121-126°C

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