Kalstein

YR0038-8

Hand Wheel Vertical Autoclave

Instruction Manual

Thank you very much for purchasing our Autoclave model YR0038-8.

Please read the “Operating Instructions” and “Warranty” before operating this unit to assure proper operation. After reading these documents, be sure to store them securely together with the “Warranty” at a hand place for future reference.

Warning: Before operating the unit, be sure to read carefully and fully understand important warnings in the operating instructions.

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CONTENTS

INTRODUCTION

The product use scope. Applicable to medical and health services, scientific research, agricultural and other units, to the medical equipment, dressings, glassware, solution culture medium to carry out sterilization, also is a necessary test equipment food factory, drinking water plant to do QS, HACCP certification.

TECHNICAL FEATURES:

- Water inlet filter to keep high water quality (except YR0046-8/ YR0047-8).
- Optional printer for recording sterilization data.
- LED screen displays all steps of full process as well as error codes.
- Independent quick service window, easy for repairing and maintenance.
- Automatic selecting quick or low exhaust to avoid sterilization liquid overflowing.
- Sterilization programs for dressings, equipment, rubber, culture medium, waste, etc.
- Hand wheel type of quick-open door structure, self-expandable sealing ring, easy operating and safe.
- Complete process of filling water, dynamic pulse exhaust, heating, sterilizing, draining and drying runs automatically.
- Adopting certain temperature (98~102℃) exhaust method and dynamic pulse exhaust method to empty the cold air inside chamber for ensuring steam saturability.
- Inner stainless steel water tank for water and steam to circulate inside. Steam dose not exhaust during sterilization, so as to keep the outside clean and dry (except YR0046-8/ YR0047-8).

TECHNICAL FEATURES

Design pressure: 0.28MPa

Rated working pressure: 0.22MPa

Working temperature: 134 degrees

Source: Deionized water (pure water, distilled water)

Volume: 50/75/100/120L

voltage: 220V

Minimum equipment sales unit: 1

Attention

1. Please open the door after discharging all the steam. Do not close to the sterilizer atthe same time.

2. The chamber is still keep at high temperature after the sterilizing, please payattention to insulate the chamber in case of scald.

Methods to monitor sterilization effect including adopting temperature-inspectingsterilization test paper, biological indicator

4. Please avoid the safety valve towards people or other equipment in case of scaldingby steam.

INSTALLATION AND ADJUSTMENT

When the arrival of the autoclave, please pay special attention to the packing, carefully check whether the model, product name etc. in product packaging box is consistent, andkeep the packaging materials. Vertical autoclave packing list.

Equipment unpacking Installation Preparation

Before unloading, please note:

- Don't stand at the bottom of the hoisting equipment.
- Please use the qualified hoisting equipment.
- Adjust the hoisting equipment, find the center of gravity, so that making theequipment hoisting horizontally.
- Pay attention to personnel safety.

After opening the packing box please carefully check:

- Whether the equipment and parts are in good condition, if there are any damage orloss, please kindly make record and contact our company.
- After unpacking the equipment, firstly check the model and product name on the
- product nameplate whether compliance with the order. (Product name plate is at the
- rear cover of the equipment)
- Whether the equipment has apparently collision trace, whether it is intact, if youhave questions, please make record and contact the shipping company or our company.

The process of installation should be under the guidance of professionals, responsible by professional construction personnel.

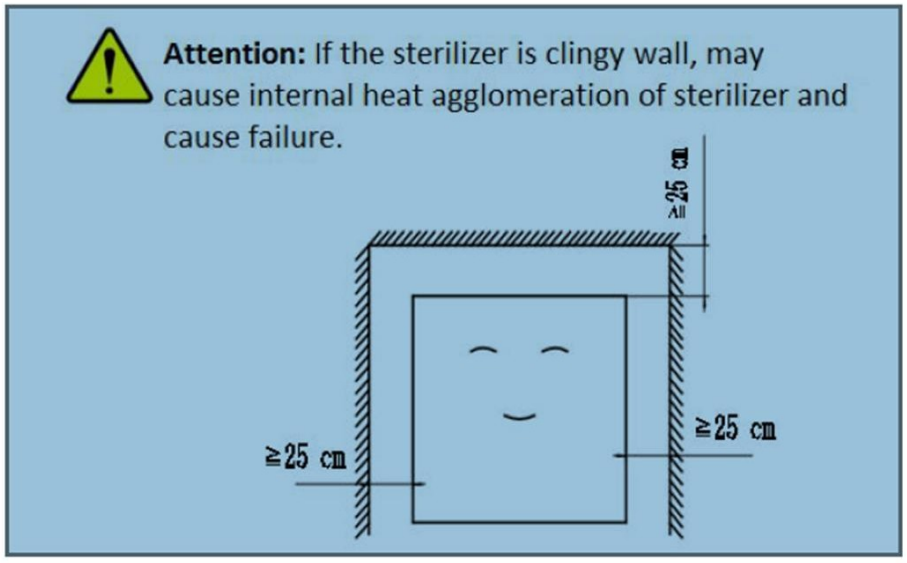
- Please do not hand wheel carrying mobile autoclave.
- When mobile the autoclave, please put the autoclave and control the power disconnect, loosen the castor and carefully moving.
- Due to the drainage device at the back of equipment, so please avoid the wallsockets and appliances.
- When carrying this equipment, avoid put the autoclave sidelong and backward.

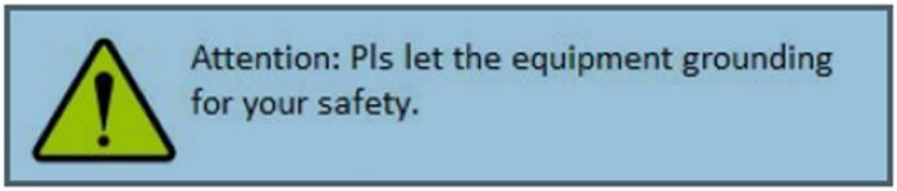
- When Install and carry equipment, it should be conducted by professional personnel, handle and put down gently. It is strictly prohibited to severe fall andcollide.
- In the process of moving, be careful not to damage or scratch outer cover

Installation and Debug

- Put the vertical autoclave on the ground of the smooth, clean and spacious, adjust the machine feet, make them parallel to the ground, to ensure stable reliable. The distance between back and sides of the sterilizer and other objects at least 250mm.

- To ensure the ventilation is well.
- In addition to keep a safe distance from other objects, the existence of other objectsshould not affect the equipment operation. When there is a failure in the equipmentoperation, you should be able to cut off the power quickly.





Power installation

- Please install a dedicated connection for wiring devices at the equipment nearbybuildings.

The height is about 1 meter. (such as circuit power supply and load capacity of the power line should be greater than the rated load of the equipment.

Advice: Single-phase AC 220 v ± 10% (50 HZ), more than 25 A.

- Please don't put equipment in a place which hard to disconnect the power supply,make sure that you can disconnect the power supply in case of an emergency.
- Please make sure that the fixed socket and power plug of power line with same specification.
- Equipment use two phase three wire connection mode, please connect line according to equipment configuration connection way. To ensure your personalsafety, please be sure to lay a ground wire.

Please do not arbitrarily change the connection mode. If you need, please contact us.Fire wire (L), brown or black; zero line (N) - blue; ground wire (PE) - green and yellow.

Please entrust specialized electrical construction personnel to do construction work.

Water source required

Devices do not need to connect the water; you need to add water to sterilizer watertank or sterilization chamber manually. You are advised to use soft water or pure water, because if use water which is not suitable may shorten the service life of equipment,

cause unnecessary trouble. Water quality must meet the following requirements:

1. Electrical conductivity is less than 15μS/cm
2. The content of bleach is less than 2mg/L.
3. PH value is 5~7.
4. Hardness is less than 0.02mmol/L.

Storage Environment

Sterilizer should be stored in a temperature of - 20 ℃ ~ 55 ℃, relative humidity is not morethan 80%, indoor or sheltered places which is no corrosive gas and good ventilation.

Working conditions

- Sterilizer is required to place in indoor environment which is clean, dry, avoid light,ventilation, small temperature difference.
- The environment temperature 5 ℃ to 40 ℃.
- The relative humidity is not more than 85%.
- Avoid heavy dust, oil mist, containing conductive particles, corrosive gas, combustible gas environment.
- Avoid easily shock or vibration of the occasion.
- Avoid high temperature and high humidity or easy to be wet places.
- Avoid strong magnetic field environment.

EQUIPMENT USE INSTRUCTIONS

In strict accordance with the instructions of equipment, installation and operation error would endanger the life and property safety of people, and make the generationof manufacturers of equipment performance guarantee is invalid;

- In the equipment usage period kept complete instructions for use;
- Ensure that all updates received can be preserved in the specification;

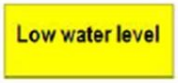
- In the device using the site or the use of units of change, we must ensure that the instruction for use as part of the overall transfer or transfer equipment.

Equipment marking instructions

To show should pay great attention

The sign of opening the door

The sign of high water level



The sign of low water level

The sign of power

The sign of ground connection

The sign of the power input

The sign of air circuit breaker

The sign of draining off water

The sign of high temperature

Instructions must be carefully preserved, in case of loss or damage, even a slight damageshould be avoided. The operating personnel have the obligation to repair technology,

complete specification, damaged or lost is not suitable, the part of the contents ofdirectories and relevant section.

Any person, not under any circumstances will use any content of the specification are torn or out. If the experience and instruction for use the instructions in the manual does notmatch or not relates to the situation, please timely contact with the manufacturers, to upgrade or update. Manual save to keep ventilation drying, avoid high humidity and temperature.

Equipment principle and range of application

YR0038 series full-automatic vertical autoclave has a microprocessor control system,it can be sterilized at constant temperature steadily. The equipment use LED display, touch button and easy one button operation with a high control accuracy in different ambient temperature, heating power and voltage fluctuation.

Model YR0038-8 series autoclave use immersion heating with a high heating efficiency;using saturated steam as working medium to make sure effective sterilization in a short time. The autoclave is surrounded by dry plate so that it can dry the sterilization products effectively.

The equipment is simple and easy to use, it can sterilizer completely, also has abuilt-in water tank and water and steam circulate inside, also save energy.

It can be used sterilization of medical apparatus, surgical dressing, glassware, rubberproducts, liquid, etc.

It is widely used in hospitals, testing laboratory, animal husbandry, biomedical research. The autoclave is Unsuitable for heat and humidity sensitive medical apparatus.Do not use this equipment for sterilizing oils, power and paraffin.


1.-The Hand Wheel
2.-The control panel
2.-Door cover
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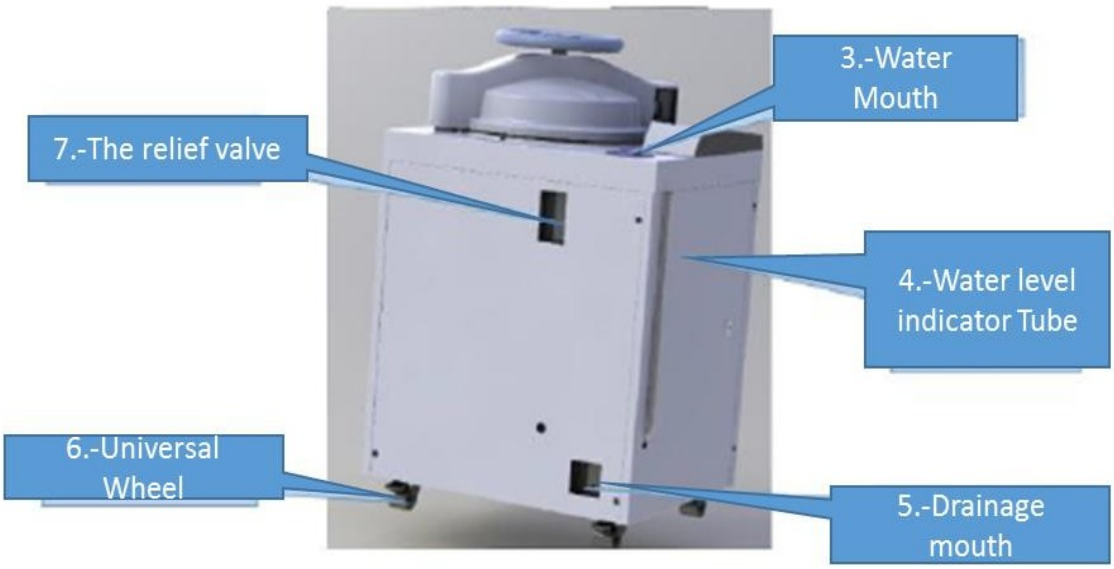
8.-Disinfect basket


3.-Water Mouth
7.-The relief valve
4.-Water level indicator Tube
6.-Universal Wheel
5.-Drainage mouth

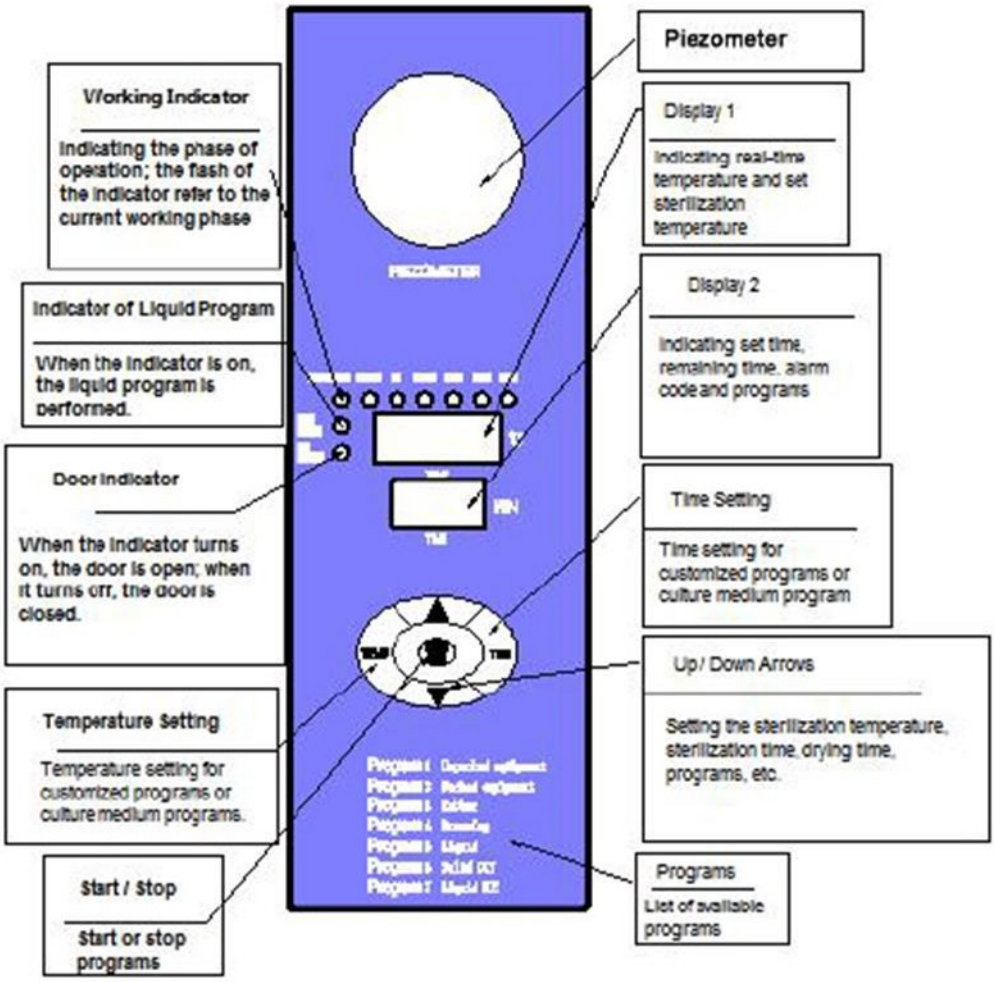
Major function of each device:

NO.	components	Functions
1	The hand wheel	Open or close the door of autoclave
2	Door cover	Heat insulation and protect the operator
3	Water mouth	deionized water is injected from water month to the water tank
4	Water level indicator tube	Indicates water level in the water tank
5	Drainage mouth	Drain the dirty water after cleaning the sterilization
6	Universal wheel	Make the sterilization move smoothly
7	The relief valve	Relief the pressure to make sure the safety
8	Disinfect basket	Load the sterilization articles
9	The control panel	Monitoring the whole sterilization process in real time
10	Piezometer	Display pressure in main body when the sterilization is working

Major functions of each device inside sterilization

NO.	Components	Functions
1	water injection solenoid valve	inject water into the sterilization
2	steam exhaust solenoid valve	Exhaust the cold air when warming, exhaust steam and pressure quickly when cooling
3	Safety valve	The safety valve will be open when the pressure reach to 0.26MPa.
4	Air valve	Exhaust cold air, increase degree of saturation, exhaust steam slowly for liquid sterilization
5	water draining solenoid valve	Drain and exhaust to the built-in circulation tank after sterilization
6	sterilizing temperature controller	Drying burning prevention function≤145±5°Cx
7	dry temperature controller	Control the temperature of dry heating plate
8	Buzzer	Send the alerting and work end signal
9	Strainer	Strainer impurities to make the solenoid valve efficiently

Control Panel



There are 7 sterilization programs:

Sterilization mode/ Program	Times of pulse exhaust	The temp.at which pulse exhaust starts℃	The temp.at which pulse exhaust finishes℃	Sterilizing temp. ℃	Sterilizing time(min)	Drying time (min)	Heat retaining time(min)
1# Unpacked equipment	1	Sterilizing temp. -2.5	The temp.at which pulse exhaust starts-5	134	4	5	0
2# Packed equipment	2	Sterilizing temp. -2.5	The temp.at which pulse exhaust starts-5	134	8	10	0

3#Rubber	2	Sterilizing temp. -2.5	The temp.at which pulse exhaust starts-5	121	25	10	0
4# Dressing	3	Sterilizing temp. -2.5	The temp.at which pulse exhaust starts-5	134	12	18	0
5#Liquid	0	—	—	121	20		0
6#Solid DIY	0-9	Sterilizing temp. -2.5	The temp.at which pulse exhaust starts-5	105~136 （ 134 ）	（0-999）	0~99.0	0
7#Liquid DIY	0	—		105~136 （ 134 ）	（0-999）		0
Close the air discharge valve	Local pressure-2℃（ Default 98℃）; Setting from （80-110℃）				Note: a. Parameters can be set except for the fixed ones. Drying phase starts when the time limit of 4 min for		
Water discharge setting	Water discharge (open/close) after the sterilization can be set freely; Temp. of water discharged (Default: discharging when the temp. of water drops to 105℃) Range: 6#Solid (Customize) 105~134℃; 7#Liquid (Customize):105-110℃				water discharge exhausts or the temp. drops to 100℃. b. Water is discharged when the temp. drops to 105~110℃. When the temp. dropping to 80℃, alarm rings notifying : "sterilization completed, please open the door"		
Attention:	The maximum temp. of air and water discharge can not exceed the sterilizing temp.						

Introduction to the control panel :

There are five buttons: "Temp.", "Time", "▲", "▼" and "Start/Stop"; 9 indicatorslights: "Add water", "Temp. rising", "Sterilizing", "Air discharge", "Drying",

“Finish”, “Alarm”, “Liquid” and “Door”; and “Temp. display” and “Time display”.

Operating procedure:

Plug in, switch on the air switch on the left, and then turn on the rocker switch on thepanel. The panel lights on, the autoclave stands by. “Temp. display” shows the word,“Prog”. “Time display” shows number X (X is the number from 1 to 7) which refers to the chosen program. Then “Time display” alternately shows the current temp. andthe set sterilizing time.

Choose different programs by pressing “▲”and“▼”. When the fifth program, 5#Liquid, ischosen, the light “Liquid” is on. When the seventh program, 7#Liquid (Customize) is chosen, the light, “Liquid”, flashes, indicating users that the current phase is “Liquid”-
related. Then press “Start/Stop” to start the sterilization.

After sterilization is complete, the "Finish" light, buzzer beep every 10 seconds."Finish"lights, the end of this sterilization, then confirm the gauge pointer back to zero, counter-clockwise on the lid hand-wheel, open the lid, and remove the items.

Note:

If you want to terminate the process of sterilization, you can press the "Start / End" button toterminate the sterilization process.

Custom programs can set sterilization temperature and sterilization time: Choose Program6# or 7# first, then set as below.

- Sterilization temperature settings:

Press the "temperature" button, temperature display window shows the set temperature and flashes. Through the "▲", "▼"to turn up and down the temperature, and then press "temperature" button once to save the temperature set value.

- **Sterilization time setting:**

Press the "Time" button, the time display window shows the set value and flashes, by"▲","▼" to change the time set value, then press "time" button once to save the set value.

- **Parameter setting**

Press the "Start / Stop" and "temperature" button both for 5 seconds to enter the menu. Display "iwti" represents the time to add water(unit/minute), when press the "Start /End" , the button shows the value and flashes. Through "▲", "▼" to change the value, press "Start / End" to confirm.

Must be 0 displayed "iwti", press the "▼", "EATE" displayed, and press the "▲" ,"tErF" displayed . "EATE" represents the cooling end temperature, press the "Start / Stop", the button displays the value and flashes, through the "▲", "▼" to change value, then press the"start / stop" to confirm. The default setting is 100.0 ℃. When "EATE" displayed, press the "▼", "EATi" showed, press the "▲" , "iwti" showed.

Display "EATi" said the cooling time, in minutes. Press the "Start / End" , the button showsthe value and flashes , through "▲", "▼" to change value. Then press "Start / End" to confirm. The default setting is 30 minutes. (After the cooling, the temperature can't below the set cooling end temperature, otherwise it will error, if the pot temperature exceeds 105 degrees, the next step will go directly) After displaying "EATi", press the "▼" , "EWTi" willshow. Press the "▲", "EATE" will show.

Display "EWTi" said the drainage time, in seconds, press the "Start / End", shows thevalue and the button flashes, through "▲", "▼" to change the value, then press "Start / End" to confirm. Only solid is program effective, the default is 240 seconds. After displaying "EWTi", press the "▼", "PULS" shows up, if press "▲" , "EATi"after.
Display "PULS" said the sterilization pulsation frequency, in seconds, press the "Start

/ End", then shows the value and flashes, through "▲", "▼" to change the value, and press "Start / End" to confirm. Only custom solid class program effectively, default 0.After displaying "PULS", press the "▼" , "drti" displayed, if press "▲" , "EWTi" after.

Display "drti" said the drying time, in minutes, press the "Start / End", then shows the valueand flashes, through "▲", "▼" to change value, press "Start / End" to confirm. Only customsolid program valid, default is 10. After displaying "drti", press the "▼", "tEFA" displayed,if press "▲", "ESTi" after.

Display "tEFA" indicates the temperature calibration factor, press the "Start / End", then shows the value and flashes, through "▲", "▼" to change value, press "start / end" to confirm, and users are strictly prohibited to modify. When displaying "tEFA" , press the "▼","tErF" displayed, if press "▲", "drti" displayed.

Display "tErF" indicates the temperature deviation, press the "Start / End", then shows the value and flashes, through "▲", "▼" to change value, press "start / end" to confirm, users are strictly prohibited to modify. After displaying "tErF", press the "▼", "iwti" shows up, after pressing the "▲", "tEFA" shows up, so as the cycle. After the parameter modification is complete, press the "Start / End" and "temperature" button both for 5 seconds to save the parameters and exit the menu.

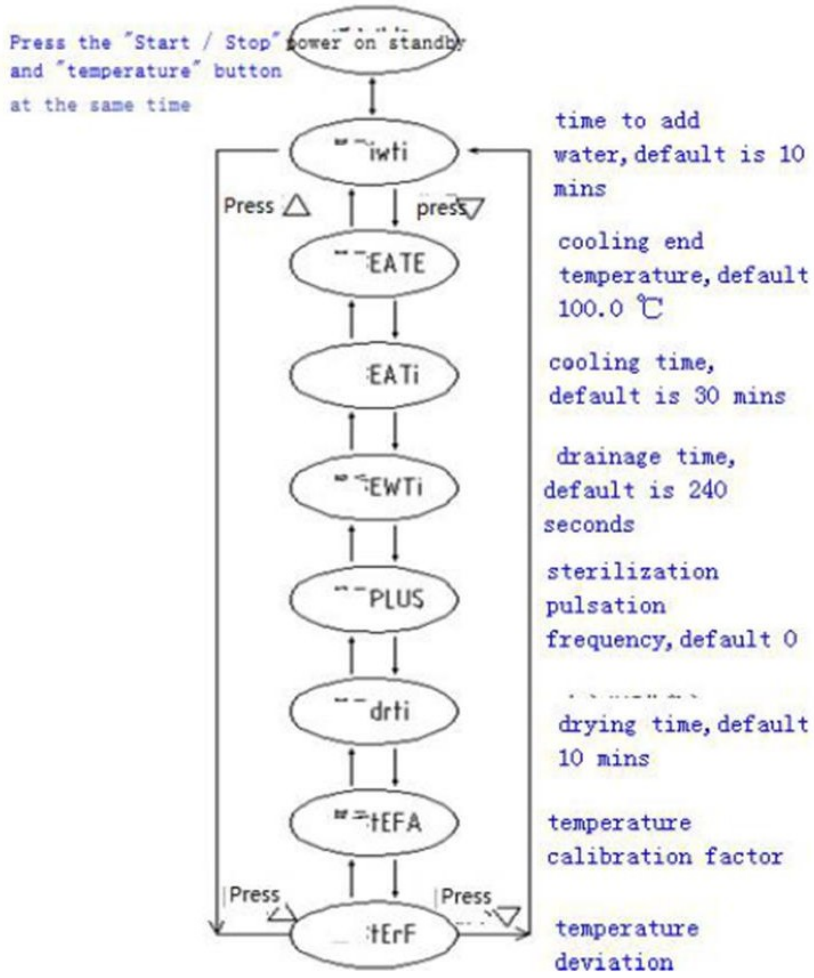
Production debugging, temperature sensor calibration:

First measurement is at cryogenic temperatures (10-30) (can be replaced with ananalog temperature sensor) to record the actual temperature T1, and temperature

displayed is D1. Then measurement at the high temperature (100-130) (can be replaced withan analog temperature sensor) to record the actual temperature T2, D2 shows the temperaturedisplayed Result (T2-T1) / (D2-D1) multiplies parameter K displayed on tEFA menu is obtained a new parameter.

After modifying the parameters in tEFA, then according to the temperature difference between D3(the temperature displayed on the temperature sensor) and T2 to modify the parameters in tErF , if the displayed temperature is low, then the value in tErF plus the

temperature difference, if the displayed temperature is high, the value in the tErF subtractsthe difference.



Operation Run:

Sterilizer operating procedures, include sterilization preparation, sterilization items loading,sterilization, sterile unloading procedure.

- **Sterilization preparation:**

1)Cleaning: article should be thoroughly cleaned before sterilization, avoiding the presenceof blood and other impurities, as these substances would harm sterilizing articles and sterilizer. After washing , items should be timely dried and packaged.

(2) Packaging: For packaging materials, please use beneficial internal air exhaust and steampenetration packaging materials, strictly complying to "Disinfection technical specifications" and the relevant national standards. The following points may be beneficial to your sterilization effect:

Ⓒ plate, pots, bowls and other containers, as a single package, and the lid is opened.

Ⓒ surgical instruments should be placed in a basket or perforated plate for supporting thepackage.

Ⓒ items must be exposed , when the stack release, utensils should be used betweenmoisture cloth, gauze or medical absorbent paper separated.

④ surface should be exposed to the various items, in order to facilitate access to all articlesfactor sterilizing surfaces with mesh containers should be opening down or on its side.

⑤ items should not be tied too tight

⑥equipment package weight was no more than 7 kg, the weight of the fabric bagshould not exceed 5 kg. Volume sterilization package should not exceed30cm*30cm*25cm.30cm× 30cm× 25cm.

Attention: Packaging materials include rigid containers, disposable medical crepe paper, paper bags, paper bags textiles, non-wovens, etc., should meet the requirements of GB /T19633 in. Textiles should also meet the followingrequirements: Non-bleaching textiles; cloth seamless addition to the four sides; hot washbefore first use should skim to pulp, to color; should use records.

Items loading sterilized items please follow the requirements for loading:

Ⓒ When the items put in, up and down should be a certain distance from each other,items cannot be posted near the door and walls to prevent inhalation of more condensate.

Ⓒ similar materials and sterilization equipment and items should be placed together;the material is not the same textile items placed in the upper, heel, metal instrumentsplaced in the lower class.

Ⓒ surgical instruments package, rigid containers should be flat; pots, bowls items should be diagonal, the package contents openings toward consensus; glass beakers,flasks, test tubes and other bottom nonporous containers open class items should beplaced down.

④ recommend using a dedicated configuration sterilization and loading rack andbasket items.

⑤ Gap should be left between the sterile package, which will help the penetrationfactor sterilization.

⑥ large package of difficult sterilization should be placed in the upper , the smallerpacket should be placed on the lower deck.

Ⓒ sterilizer loading volume shall not exceed 80%.

⑧ only liquid bottles and tubes with the heat load, the load should not exceed theamount of container volume.

MAINTENANCE

Attention: must disconnect the power before you use the machine andmake sure there is no pressure.

- To ensure that the sterilizer is in good working condition, and minimize the numberof failures, therefore, the operation described in this chapter must be followed.
- Before starting maintenance, make sure the device is powered down. At the same time, no pressure in sterile containers. After the end of the working day with a softcloth or a piece of gauze to wipe the door gasket.
- Remove the basket.
- With gauze with a detergent and water, wipe the inner wall of the sterilization

container. Do not use steel slag wool or steel brush to avoid damaging the sterilizationchamber wall.

- Cleaning and sterilizing the container chamber to remove scale. The water in thetank let go.
- Once a week, to door sales plus molybdenum disulfide grease with a soft cloth towipe the sterilizer housing.
- Once a week to clean the strainer plug.
- Once a week, check the steam air exhaust valve.
- Once a week, check valve.
- Periodic inspection.
- Once a year, tightening fittings and detection-off state, should be completed by a professional electrician.
- Once, due to extreme wear and tear, lock device must be checked every five years.

Instructions: This repair manual is to provide professionals. Unless you are a professional, otherwise when the equipment fails, be sure to consult the instructions and press the manualfor repair. Instructions have been possible to provide professional maintenance methods.

Changing the water tank

1) Remove the transparent silicone tube can drain until the water tank drain.

2) the distilled water into the tank, the water level the water level should, between themaximum and minimum water.

Exhaust steam valve cleaning steps

Before you begin, you should cut off the power supply and ensure that no pressureinside the sterilization chamber

1) Remove the tank lid.

2) by stretching before and after steam escape valve, flush valve orifice steamescape.

3) If it is necessary to replace the steam escape valve, before replacing, to wait forequipment cooling, the pressure drops to 0MPa.

Checking the safety valve

It is located above the rear. Safety valve in order to prevent the blockade state, undernormal use, every two months, so that steam pressure is released through it once.

1) According to the manual, sterilized operation.

2) the pressure generated inside the sterilization container 0.21MPa.

3) Use a screwdriver to push the safety valve handle, resulting in it is open, about 2seconds.

4) Turn off the main switch, the operation is terminated. Meanwhile, within the dischargevessel steam sterilization.

5) Until the pressure drop is 0MPa time before opening the door.

How to replace the safety valve

Instructions: The only professional repair methods can be used. Unless you are a professionaltalent, otherwise avoid electric shock, equipment malfunction, be sure to consult the instructions and press the manual for repair, while the specification has been possible to provide professional maintenance methods.

1) It is located above the rear.

2) Remove the valve mounting screws, remove the valve from the valve base with aqualified safety valve to replace it. Test the sterilization process.

Replace the heater step

Before this operation, you should turn off the power, and make sure no pressure insidethe sterilization chamber.

1) Remove the cover sterilization.

3) Remove the wiring heater.

3) Loosen the screws on the heater.

4) with a new heater to replace the damaged heater, where the new heater must bereplaced with the consistent position of the heater and wiring.

5) Install the sterilizer housing.

Door Safety Interlock

It is a safety device to prevent the door opening when the autoclave is under pressure. This system is established on the basis that the inner chamber generate pressure. The pressure generated will push the active clutch up to mesh with the fixed clutch. It will prevent the operator opening the door by mistake. When water vapor has been released, the device will return to the initial position, then the door can be opened

.

Strainer Cleaning

Located at the bottom of the device, the strainer isused to strainer out the impurities, ensuring pipeline smoothness and electromagnetic valve leak proof. Screw out strainer nut from the chassisof device, remove and clean the strainer center. It need to be cleaned once a month approximately.

Cleaning steps of electromagnetic valve

1) Remove the cover of the autoclave

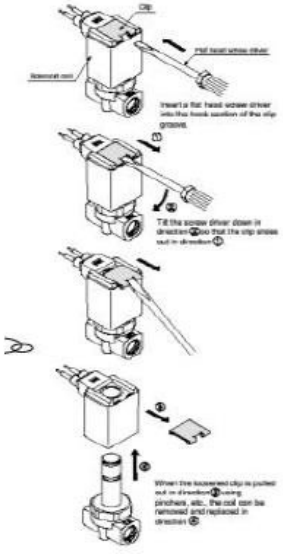
2) Pull out the stainless press slip on the electrical magnetic valve with a screwdriver.

3) Lift the electromagnetic valve coil

4) Open the valve body with a spanner.

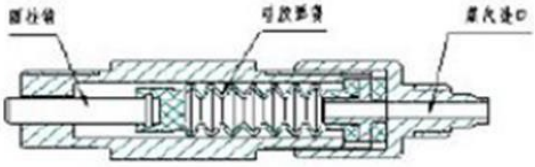
5) Clean sundries on the valve center with cleanwater.

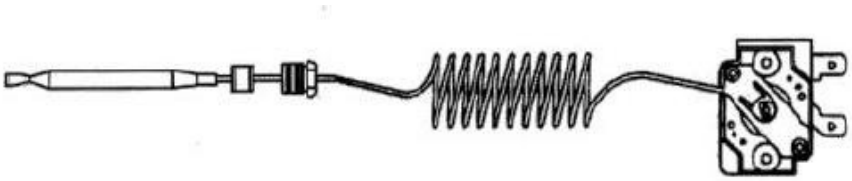
6) Re-install the electromagnetic valve.



THERMOSTAT

Located inside the device. Sterilizer is equipped with a thermostat. In the heating andsterilization phases, it can be turned with the cut off the power supply to maintain a constant temperature. Typically used as a temperature alarm device.





If the pot temperature exceeds the allowable value, the thermostat automatically disconnectsthe heater power.

When the pot temperature dropped below the allowable value, the thermostat automaticallyturns on.

How to improve the operating temperature of the thermostat

This operation is limited to professionals. Use a screwdriver to rotate the center screwclockwise slightly, so that the temperature rise.

COMMON FAULT AND SOLUTION

This Instruction tries to provide the maintenance method for the known fault, the below aresome common faults.

Phenomena	Possible reasons	Correct Operation
Power switch is on, power light is not bright.	1.The circuit breaker is unclosed 2.The main power switch is damaged	1.Close the circuit breaker 2.Change power switch in accordance of specific conditions
The door indicator light is not bright	1.The door is not fully closed 2.The door's micro-switch loose, misplace	1.Try again after fastening the door 2.Adjust the door position switch
Under the condition of warming, Pressure and temperature do not rise, or rise slowly	1.Control circuit of the heater shorts out or burns down 2.pipe joint or safety valve leaks seriously	1.Check and change the damaged elements 2.check, tighten the pipe joint, safety valve, etc
Under the condition of drainage, Pressure and temperature do not drop, or drop slowly	Drain Strainer clogs	Clear up the sundries on the strainer valve core
Fail to reach the sterilization temperature	Whether determined by the boiling point of the altitude. Please check the set temperature of the boiling point	If not the reason of the altitude, please contact us or our distributor
Safety Valve opens	1.Whether the pressure is too high? 2.Whether the safety valve breaks down	1.Adjust temperature departure 2. Adjust and change safety valve
Steam leaking	1.Whether door rubber gasket become hard and aged 2.Whether the door strip cracks 3.Whether door rubber gasket falls off	1. should change door rubber gasket 2.should change door rubber gasket 3. re-install door rubber gasket

Alarm Code

When an error occurs during use, it shows the error code and the buzzer sounds and indicates alarm, the sterilizer automatically stops moving, please look up the followingconditions and deal with them.

The failure code list

Failure code	Condition of the failure	Failure reason
Err 001	It doesn't reach the set temperature after 30 minute's of pulsation exhaust air conditioning.	The heater pipe is broken, have leakage phenomenon.
Err 002	It doesn't reach the set temperature in the exhaust air conditioning or the failure pulsation in duct	The heater pipe is broken. Improper set parameters
Err 04	During the sterilization, temperature fluctuates too large	air leaking
Err 08	The sensor improperly connected or damaged, the temperature in the pot is below 10%	replace the sensor
Err 016	The failure of circuit board temperature measuring component.	Replace control board
Err 032	Not add enough water during the set time of adding water.	Water shortage in the tank, water float broken, failure of solenoid valve
Err 064	The water shortage in the pot caused heating pipe burned	Float failure, after the heating pipe cool down, add enough water to the pot
Err 128	After starting sterilization, the pan is opened	excessive pressure, the pot shifts, pot test failure

WARRANTY

To our distinguished guests: Any product has the possibility of failure, please monitorthe work of the equipment in real time during use, if any abnormal, please first refer to the manual for processing, If the problem still cannot be solved, you shall inform ourCustomer Service Centre, to protect against loss

After-sales service

1. From the day when the equipment is sold (subject to the invoice), one-year maintenance free of charge and all-life services.
2. The warranty card: When you need to normal consultation or maintenance, pleasecontact to our after-sales service centers with the warranty card and the invoice, thewarranty card must be well kept.

TECHNICAL INFORMATION

Model	YR0038-8	YR0040-8	YR0042-8	YR0044-8	YR0046-8	YR0047-8
Capacity	50L	75L	100L	120L	150L	200L
Chamber size(Φ*L)	φ386*500	φ386*682	φ386*875	φ386*1055	φ500*760	φ500*1000
Chamber material	304 medical stainless steel					
Max pressure	0.28Mpa					
Max temperature	150℃					
	0.175MPa				0.217MPa	
Working temp range	105~136℃				50~134℃	
Temp. Accuracy	±0.1℃					
Timing range	0~999min					
Dynamic pulse exhaust time	105~134℃					
Water requirement	60~100℃（programmable）					
Standard Accessories	40~60℃（programmable）					
Power Consumption	110V/ 220V, 50/60Hz					
Power supply	4.4KW	4.7KW	5.2KW	5.2KW	6KW	
Externalsize(W*D*H)mm	550*640*970	550*640*1070	550*640*1270	550*640*1370	715*720*1350	715*720*1550
Packing Size(mm)	780*690*1190	780*690*1130	780*690*1510	780*690*1590	760*800*1500	760*800*1690
Gross weight	115	123	136	151	230	260

ELECTRICAL SCHEMATIC DIAGRAM

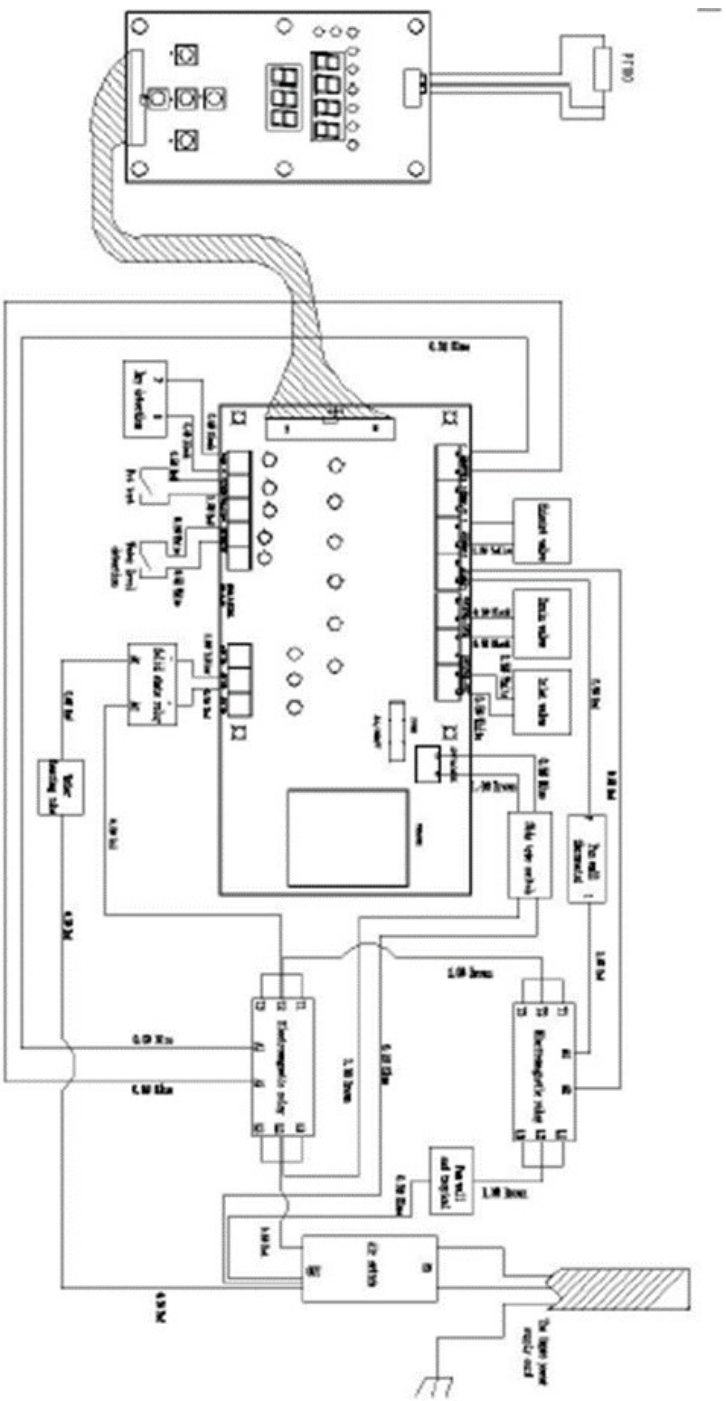


Figure 1 : Electrical Schematic Diagram

Painps

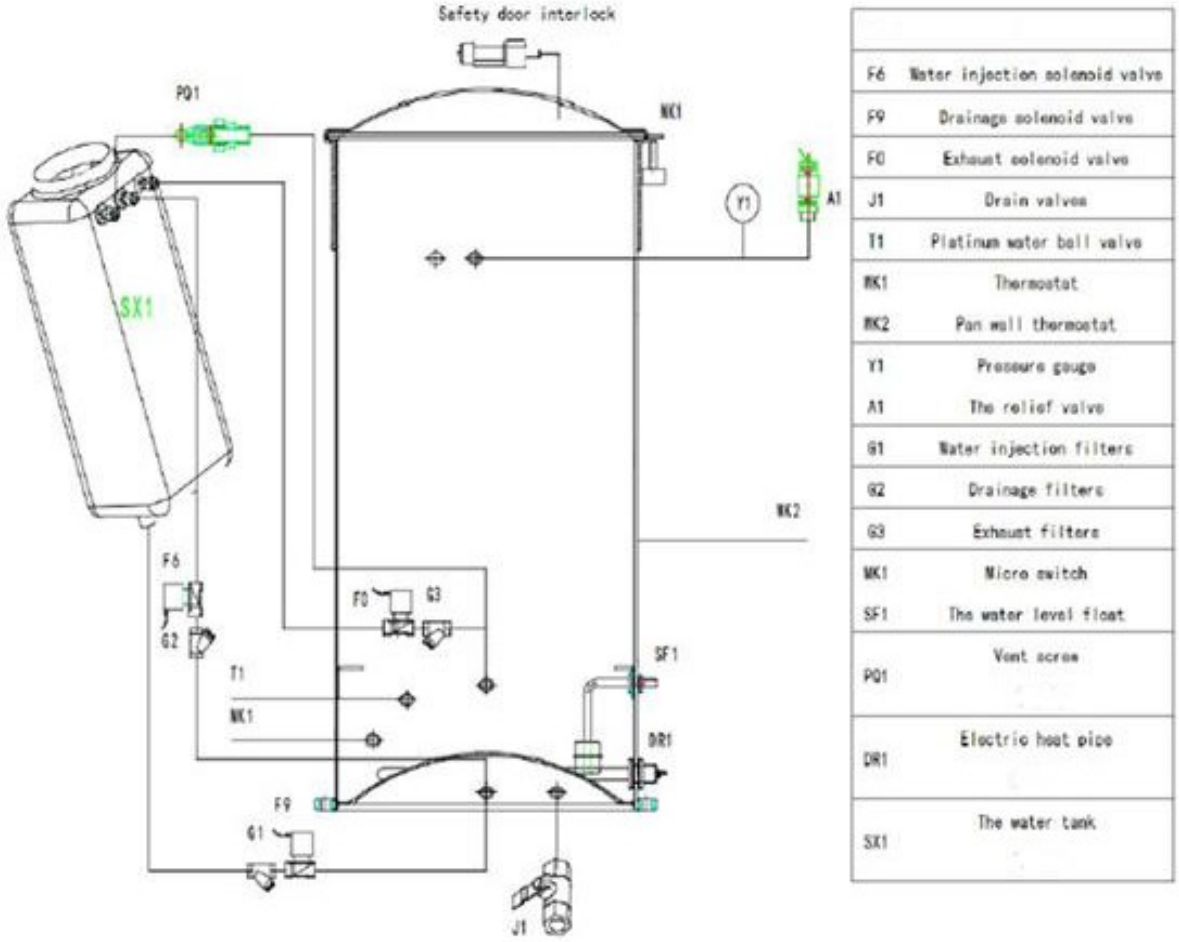


Figure 2 : Pipeline Schematic

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