

# Portable Type Pressure Steam Sterilizer

## SPECIFICATION

- Before the installation, uses in front of this product, carefully read this specification

## CATALOGUE

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## Dear Customer

Thank you for purchasing Xingfeng instrument please take your time to read carefully the instructions before starting to use this Electric pressurized steam sterilizer please also pay special attention to those letters in bold which is very useful for maximizing the functions of the instruments Please take good care of this instrument after reading it for future use Make sure that the purchase voucher and the warranty card are well preserved after buying this instrument, and send back the Maintenance receipt to our main office within the month after purchasing our product

### I. Security considerations

1. The operator should always be there to observe the running condition of the instrument until the whole process is finished make sure the pressure has to be released and the power be turned off before leaving.
2. It is strictly prohibited that the instruments working beyond the service pressure things which are easy to explode when contacts the steam or boost abruptly are also both strictly prohibited.
3. When you first use the instrument, the safety valve and exhausting valve on the instrument should be sent to qualified organization for examination and you should also have them examined regularly.
4. The instrument must be adequately grounded to prevent having an accident because of the electrified case.

### II. Application of product

XF series Electric pressurized steam sterilizer is mainly used as medical appliances or sterilize different kinds of wound dressing in medical institutions.

### III. Classification of product

1. Grouped by the type of electric shock: this instrument belongs to "I".
2. Grouped by the degree of electric resistance this: instrument belong to "B".
3. Grouped by degree of protection against the noxious liquid substance this instrument belongs to normal level(enclosed type equipment).
4. Grouped by degree of safety when using this instrument under the circumstances of flammable anesthetic gas mixed with atmosphere or mixed with nitrous oxide: this instrument can not use under the circumstances of flammable anesthetic gas mixed with atmosphere or mixed with nitrous oxide.
5. Grouped by working system it is short-time loading and continuous operation.

### IV. Classification of the products:

1. Product name description

XF	S - 280	MB
—	—	—
I	II	III

- I. According to locking way of the lid 1 by securing rod (XPS-) 2. by quick open type (XF-)
- II. According to the volume of the inner cylinder of the instrument: 8liter (260), 12liter (260\*) 18liter (280). 24liter (280+).

- III. According to degree of automation: 1. can use both coal and electricity (A or no); 2. electric type (B); 3. self control type (MB), 4. automatic type (CB);

For example: XFS-280MB locking way is by securing rod and it is self control type.

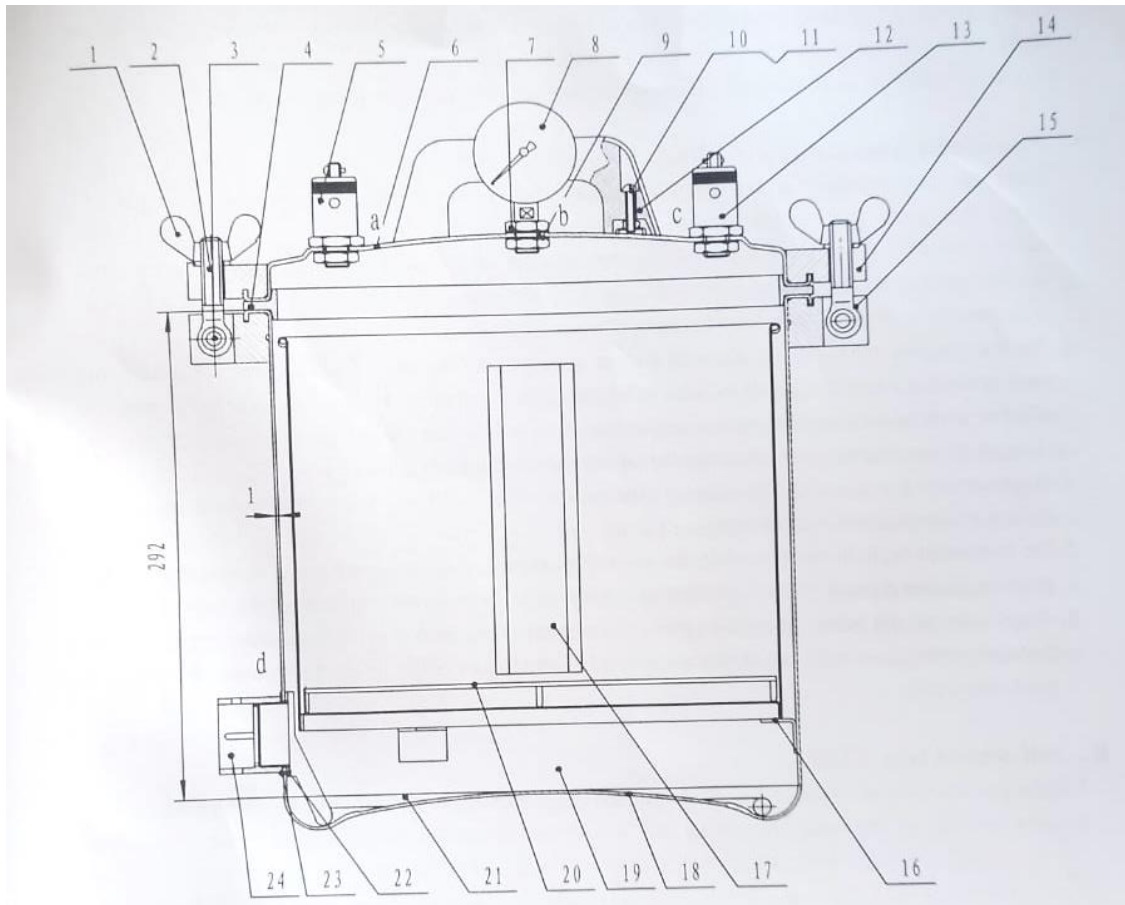
XFS-280A an use both coal and electricity to operate

XFK-280CB locking way is by quick open type and it is automatic type.

2. Please refer to the above Classification and your model of the products, choose the following different instructions with different degree of automation to operate the instrument.
3. Classification of the products and explanation:

Model of the product	Specification	Power (Electric heating tube)	Heating methods
XFS (K) —260	8 litre	1 KW	Can use both coal and electricity
XFS (K) — 280	18 litre	2 KW	Can use both coal and electricity
XFS (K) —280A	18 litre	2 KW	Can use both coal and electricity
XFS (K) —280B	18 litre	2 KW	Electric heating
XFS (K) —280MB	18 litre	2 KW	Electric heating
XFS (K) —280CB	18 litre	2 KW	Electric heating
XFS (K) —260+	12 litre	1 KW	Can use both coal and electricity
XFS (K) —280+	24 litre	2 KW	Can use both coal and electricity
XFS (K) —280A+	24 litre	2 KW	Can use both coal and electricity
XFS (K) —280B+	24 litre	2 KW	Electric heating
XFS (K) —280MB+	24 litre	2 KW	Electric heating
XFS (K) —280CB+	24 litre	2 KW	Electric heating

## V. Structure of the products



1 nuts	9 spacer	17 tank
2 securing rod	10. screws	18 the bottom capped end
3 adjusting pin	11 screw frames	19 barrel
4.sealed ring	12 handle	20. castor
5 steam release valve	13 security valve	21 electric heating tube
6.the top capped end	14 the top flange	22 sealed tap
7 copper nut	15 the bottom flange	23 spacer
8 pressure gage	16 shelf	24 copper suit

## VI. Technical parameters

1. Rated working pressure of the instrument: 0142-0 165MPa. rated working temperature 128 C.
2. The power of the heating electric heating tube IKW(tr. 12) 2KW (18. 24tre).
3. Working voltage 220V/50112 (tres 12tros. 18tres 24).

## VII. Application procedure

Please refer to your model of the products and above(4 Classification of the products) to confirm the degree of automation, choose the following different instructions to operate the instrument

A can use both coal and electricity: B. self control type (MB). C. automatic type.

### **A. Can use both coal and electricity:**

1. Make sure the instrument put on a solid flat surface in order to ensure the instrument working normally
2. open the lid of the instrument,take out the inner cylinder(then you will see electric heating tube), then pour more than 3.5litres of water into the electric heating tube please take care that enough water should be in the electric heating tube everytime when you want to use the instrument in order not to burn out the tube because of water shortage
3. Put the wrapped goods ready for sterilization in sequence into the inner tub,make sure that there is still some space left inside of the tub in order to let the steam penetrate well into the goods and increase the effect of sterilization also please take care that the steam hole on the security valve, exhaust valve not be plugged during the process at last, fasten the lid and tightened it in diagonal form
4. Make sure the power supply coincide with the source of your instrument and be adequately grounded before you plugged into electricity
5. The instrument begin to work normally,the security valve will release the pressure as soon as the working pressure reaches about 0.142-0.165Mpa and then keep such stable pressure to work
6. Please turn off the power as soon as the sterilization finishes, then open the exhaust valve to release the steam after 2-3 minutes, it is not allowed to open the lid of the instrument unless the pressure gage reaches 0.

### **B. Self control type (MB)**

1. Make sure the instrument put on a solid flat surface in order to ensure the instrument working normally
2. Open the lid of the instrument,take out the inner cylinder (then you will see electric heating tube), then pour more than 3.5litres of water into the electric heating tube please take care that enough water should be in the electric heating tube everytime when you want to use the instrument in order not to burn out the tube because of water shortage.
3. Put the wrapped goods ready for sterilization in sequence into the inner tub,make sure that there is still some space left inside of the tub in order to let the steam penetrate well into the goods and increase the effect of sterilization also please take care that the steam hole on the security valve, exhaust valve not be plugged during the process at last, fasten the lid and tightened it in diagonal form.
4. Make sure the power supply coincide with the source of your instrument and be adequately grounded before you plugged into electricity
5. After plugging into the electricity, first,set the timer to your required selected time, (turn up by clockwise rotation, the maximum time you can set is 60minutes) second, set the the temperature of sterilization and it is advisable to set the working temperature of sterilization for about 126°C. After setting these two parameters, please turn on the power now the working indicator should be on and the instrument set heating to work.

6. Now the instrument begin to work normally when the working temperature reaches the designed temperature, the instrument will keep warm automatically and now it is time to begin the timing
7. There will be an alarm as soon as the machine count down to the end of sterilization, it is a signal that the whole sterilization now finishes. Please turn off the power as soon as the sterilization finishes, then open the exhaust valve to release the steam after 2-3 minutes it is not allowed to open the lid of the instrument unless the pressure gage reaches 0

### **C. Automatic type**

1. Make sure the instrument put on a solid flat surface in order to ensure the instrument working normally
2. Open the lid of the instrument take out the inner cylinder then you will see electric heating tube). then pour more than 3.5 litres of water into the electric heating tube please take care that enough water should be in the electric heating tube everytime when you want to use the instrument in order not to burn out the tube because of water shortage
3. Put the wrapped goods ready for sterilization in sequence into the inner tub, make sure that there is still some space left inside of the tub in order to let the steam penetrate well into the goods and increase the effect of sterilization. also please take care that the steam hole on the security valve, exhaust valve not be plugged during the process at last, fasten the lid and tightened it in diagonal form
4. Make sure the power supply coincide with the source of your instrument and be adequately grounded before you plugged into electricity
5. After plugging into the electricity, please set well the temperature of sterilization and the time of sterilization, the instrument will begin to work normally after you also setting well the water.
6. Now the instrument begin to work normally when the working temperature reaches about 105°C, you will hear the buzzer warning, it is a signal that remind the operator should open exhaust valve to release the cold air out of the instrument the instrument will keep warm automatically and now it is time to begin the timing when the working temperature reaches the designed temperature, the instrument will keep warm automatically and now it is time to begin the timing
7. You will hear the buzzer warning and see the screen shows "END" as soon as the machine count down to the end of sterilization Please turn off the power as soon as the sterilization finishes, then open the exhaust valve to release the steam after 2-3 minutes it is not allowed to open the lid of the instrument unless the pressure gage reaches 0.
8. SETTING THE PARAMETERS

#### **1. SETTING THE TEMPERATURE OF STERILIZATION**

- Press the setting key, then you will see the screen shows "A123" on the bottom, A means it is time for you to set the temperature. 123 means the actual value of the temperature.
- Press the shift key for one time. then you will see 1 flashes, then it is time for you to press to increase the value and press "-" to reduce the value, the range of value is time for you to between 0-9
- Press the shift key for two times, then you will see 2 flashes, then it is press to increase the value and press " " to reduce the value, the range of value is between 0-9
- Press the shift key for three times, then you will see 3 flashes, then it is time for you to press to increase the value and press "-" to reduce the value, the range of value is between 0-9
- Press the shift key for four times, save the setting temperature into the instrument
- The setting range of the temperature is 0-130.

## 2. SETTING THE TIME OF STERILIZATION

- Press the setting key once again, then you will see the screen shows "BA123" on the bottom. B means it is time for you to set the time. 123 means the actual value of the time
- Press the shift key for one time, then you will see 1 flashes, then it is time for you to press "+" to increase the value and press to reduce the value, the range of value is between 0-9.
- Press the shift key for two times, then you will see 2 flashes, then it is time for you to press to increase the value and press to reduce the value, the range of value is between 0-9
- Press the shift key for three times, then you will see 3 flashes, then it is time for you to press to increase the value and press to reduce this value the range of value is between 0-9
- Press the shift key for four times, save the setting time into the instrument

## 3. BEGIN TO WORK NORMALLY

- Press the setting key 3 times the Instrument begin to work normally

**NOTES:** With using any of the above type, if the customer have the high requirement on the uniform temperature in different parts of the inner cylinder, you can first open the exhaust valve before you plug into the electricity, please keep the exhaust valve discharging the steam until there is a stable working temperature inside of the Instrument usually, 10 minutes releasing is enough, but you can prolong this time if you have a much higher requirement on the stable working temperature inside

## VIII Points for attention

1. The shell of the instrument must be adequately grounded and always checked to avoid accidents
2. The instrument must be kept in a place which is airy and dry and no inflammables & explosives
3. The security valve and the exhaust steam valve should be sent to qualified organization to check regularly to ensure the safety
4. The volume of the inner cylinder can not be more than 4/5 of the total volume of the instrument
5. Make sure the sealing ring not contact the oil to avoid steam loss because of the broken adhesive tape
6. Things which are easy to explode when contacts the steam or boost abruptly during the sterilization are both strictly prohibited
7. When you want to sterilize the liquid, it is advisable that use a durable Heat resistant glass wares to put the liquid, and the volume of the liquid can not be more than 3/4 of the wares, it is prohibited to use a wrapped rubber or cork at the mouth of the wares, it is advisable to use a cotton plugs
8. It is prohibited to put sterilized goods (wound dressing and liquids) with different type and different sterilizing requirement together into one instrument
9. If the pressure indicator shows not right after long time use you should have it serviced regularly
10. The security valve should also be examined regularly to ensure the reliability, if the security valve not take off when the working pressure above 0.165MPa, then this security valve should be examined and replaced, it is easy to arise accident because the security valve can not release the pressure well and make the inside of cylinder too much of the pressure
11. Transport environment
  - A. **required temperature -40-55C**
  - B. **required relative humidity <80%**



**C. required atmospheric pressure 500-1060hPa**

12. Storing environment

**A. required temperature -40-55C**

**B. required relative humidity <80%**

**C. required atmospheric pressure 500-1060hPa**

#### IX. Maintenance of the product

1. Examine the sealing effectiveness of all pipes regularly
2. Please check if the instrument be adequately grounded before you start to see the machine again after stop ming of the machine more than one month
3. Examine regularly to ensure the reliability of the sealed ring and flannel not drop out locally, please put the sealed ring into the water trough promptly to avoid sudden pressure releasing accidents because of sealed ring dripped out during the process of increasing the pressure
4. Cleanup sales on the instrument and the electric heating tube regularly to prolong the lifetime of the electric heating tube and the whole machine

#### X. PACKING LIST

1. ONE INSTRUCTION
2. ONE Warranty card
3. ONE CERTIFICATE

#### XI Failure handling

Number	Symptom of instrument failure	Analysis of causes	Solution
1	Plug into 220V electricity, but the instrument still don't have the power	1.Electric power line is broken 2.The plug is broken	1.Replace promptly 2.Replace promptly
2	The instrument doesn't arise temperature or pressure or the shell of the instrument with electricity	1.The power supply don't connect well 2.electric heating tube is broken	1.Examine the power taps 2.Replace promptly
3	There is steam in the pressure gauge	Steam leakage between the connection	Tighten the connections
4	If the security valve take off ahead of the time when the working pressure still not reach the designed pressure	Steam leakage from the security valve broken	Replace promptly
5	The indicator on the screen shows in normal position and the heating indicator is on, but the instrument is still neither arising the temperature nor arising the pressure.	The electric heating tube is broken or 40A Solid state relay is broken	Replace promptly

6	The telephone number of the technical department from Zhejiangn Xingfen medical instruments Co. Ltd.: 400-688-7575
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## XII. After-sales services

Without violation of the Rules of storing and application, the instrument can be guaranteed for a whole year after leaving the factory But please take note that some easily damaged parts are outside the range of the guarantee for example the electric heating tube 40% Solid state relay, the water level detector Please refer to the following details to make the Warranty card

### CERTIFICATE OF GUARANTEE

Thank you for purchasing our product we can assure that all the people in my factory always take a strict attitude towards our quality control and management the following can be guaranteed once the troubles occurs

The name of the product Electric pressurized steam sterilizer City Zhejiang Province

Add Daoxu Town, Shangyu

Model of the product: XF

Buying date

Product number

Buyer commissioned

Zip code 312368

TEL 0575 82589337

Buyer

FAX 0575-82588038

### GUARANTEED CONDITIONS

#### I. The conditions for free maintenance service:

1. If the material of the instruments not good or there is some problems in design and manufacture then we can give free maintenance service according to the certificate within one year after the invoice date
2. If the instrument failure is arise from design and manufacture even the warranty expires, we will also help to fix for you by only taking some small amount of money for door to service and component

#### II. We will charge from you under the following circumstance even within the period of guarantee

1. the failure arise from the incorrect use of the instrument
2. the failure arise from randomly change the line or the product
3. the failure arise from case of force majeure as floods, earthquake fire or arise from the unsteady electric voltage or other special external factors

4. The failure arise from operating the instrument not according to the instructions, or anse from carrying the instrument in Hot correct way
5. The failure arise from sending out the instrument abroad without contacting with our factory in advance
6. Regularly examination and maintenance required by customer

### **III. Periodic examination and repair**

When the customer requires periodic examination and repair, please write clearly on our Maintenance receipt your required examination date and contents and send your filled Maintenance receipt back to our technical department after receiving this maintenance receipt our company will send to customer an evidence and waiting to receive a remittance from customer, then we will arrange the time when come to give the maintenance service.