



# **Biomedical Waste Pulsation**

## Vacuum Sterilizer

Models:

- Acm-23098-TKS

**WEIBER**<sup>®</sup>



## Biomedical Waste Pulsation Vacuum Sterilizer

### Model

ACM-23098-TKS 50 Kg/Hr Automatic Double-doors; built-in Steam Generator

### Application Range

The sterilizer is used for the sterilizing the clothes, apparatus, vessels, culture medium, small amount of liquid in the unsealed bottles.

### Quality System

The sterilizer is strictly designed and manufactured according to ISO 9001-2000 and ISO 13485-2003 quality system. It is implemented by International relative standard. The sterilizer conforms to the CE standard. The performance is stable and the quality is reliable.

### Safety System

The sterilizer has the multiple safety structures, including overpressure protection, low water-level protection, door

interlocking system, electric appliance overloading and short circuit protection, which ensure the safety operation.

### Heat emissions protection

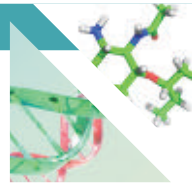
The sterilizer's chamber is covered with mineral wool to protect the heat emission.

### Technical Specification

#### Chamber

1. The chamber is made of 304 stainless steel. It is designed and manufactured by the International standard and is checked by national technical inspection department in India. The sterilizer is firm and durable.
2. The inner surface of the chamber is finely polished, glabrous, corrosion-proof and easy for cleaning.

# Pipeline System




- The equipment has over-pressure safety device, which is safe and reliable.

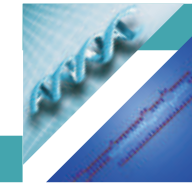
## Door Structure

- The sterilizer is automatic operated door structure. The door is open and closed by motors. It is made of Ss304.
- The door of the sterilizer is pressured-air sealed.
- Double-door Structure. It has double-door safety interlocking system. When the door is not closed, then steam can not enter the chamber. When the steam pressure in the chamber is more than 0.027MPa, the door cannot open. The front door and the back door can not open at the same time.

## Pipeline System



- The pipeline system is composed of the controlling valve, pipelines and the filter. It is also the energy transfusion and controlling channels of the sterilizer. 
- Controlling valve is pneumatic valve, which has the advantages of strong heat resistance performance, reliable operation and low fault rate, which will ensure the overall performance of the sterilizer.
- The pipelines are connected by stainless steel pipelines. It uses hoop fitting, which is easy for installation, maintenance and inspection.

# Pipeline /Controlling & Vacuum System



- The pipeline is polished, glabrous, and easy for cleaning.
- The air filter adopts sterile filter, which can prevent the second pollution of the goods.


## Controlling System

- The controlling system is mainly composed of PLC from Mitsubishi. The whole system operates reliably and controls preciously, which ensure the overall performance and the sterilizing effect. 
- The controlling system has HMI, which has the functions including 

multiple sterilizing processes for users to choose, setting the sterilizing parameters, displaying the parameters and the cycle phases, printing the sterilizing reports and the compelling hand operation.

- The micro printer is used for recording and printing the key parameters of time, temperature and the pressure in the operation process, which is easy for the users to file and analyze technically.
- The whole system has the over current, over loading and leaking power protection system.

## Vacuum System

- Vacuum system is the necessary part which is used 

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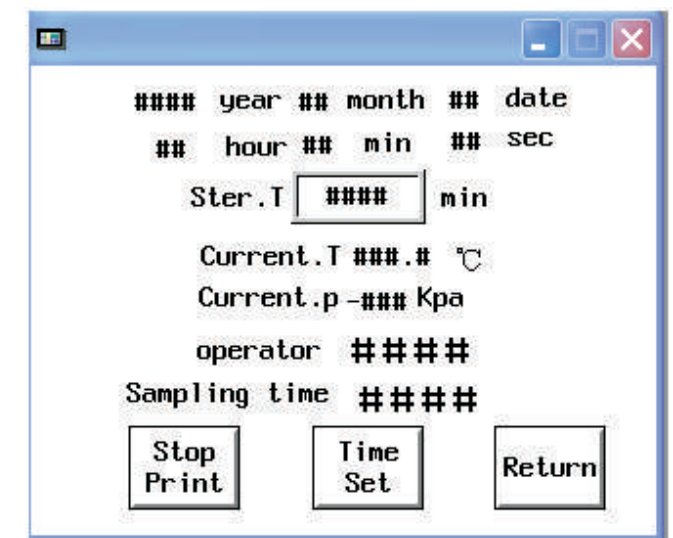
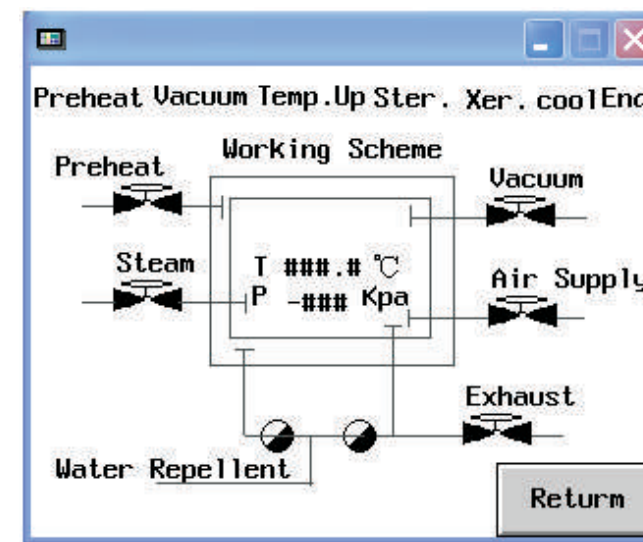
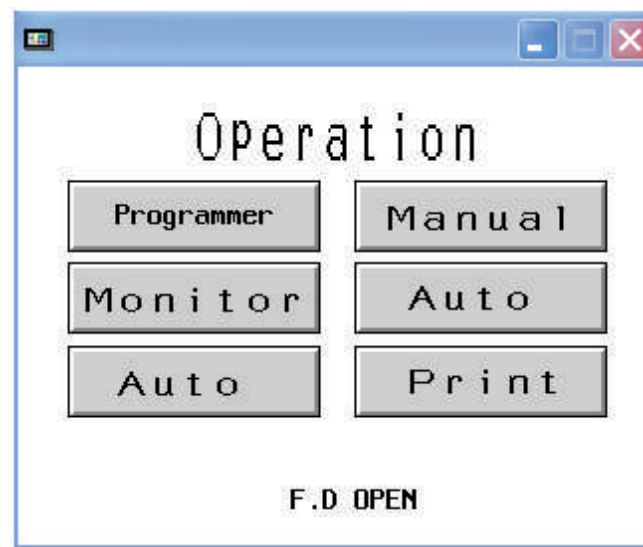
# Biomedical Waste Pulsation Vacuum Sterilizer

for disposing of the cool air, keeping the temperature in the chamber evenly and ensuring the sterilizing results. It plays an important role in the process of vacuum drying clothes and dressing bag.

- The vacuum system of the sterilizer is mainly composed of liquid ring vacuum pump, vacuum valve and the interconnecting pipelines. Among these, the vacuum pump is the key part. The vacuum system has good advantages of operating stably, low voice, high vacuum and quick air suction speed, which ensures the sterilizing effect and the whole performance.

## Sterilizing Programs

The sterilizer has multiple sets of sterilizing programs:

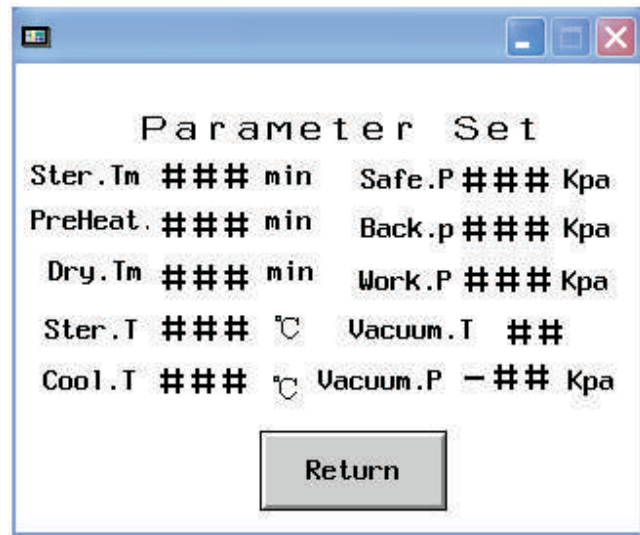


# Biomedical Waste Pulsation Vacuum Sterilizer



## 1. Mechanically Sterilizing Program:

It is used for sterilizing the metal apparatus, vessels and tools. The sterilizing program is composed of pulsation vacuum, rising temperature, sterilizing (keeping the same temperature for a certain time) and cooling. The users can set the sterilizing parameters according to goods' characteristics and manufacturing requirements. The setting range of the sterilizing parameters is: Sterilizing Pressure: 0.07-0.22Mpa; Sterilizing Temperature 115-134?, Sterilizing Time: 1-99minutes.

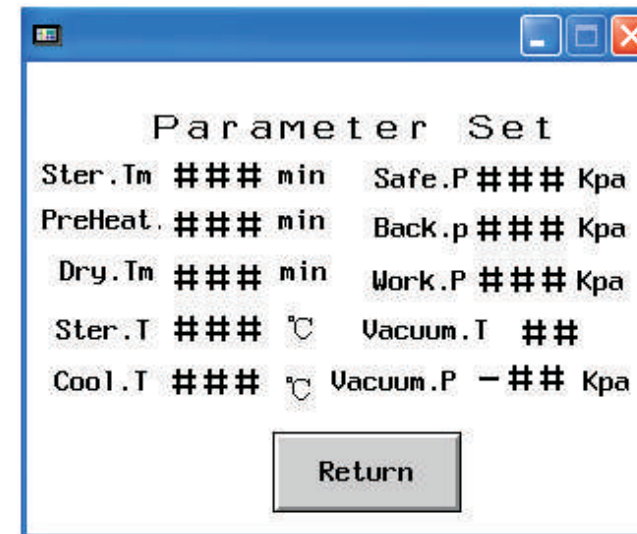


# Biomedical Waste Pulsation Vacuum Sterilizer



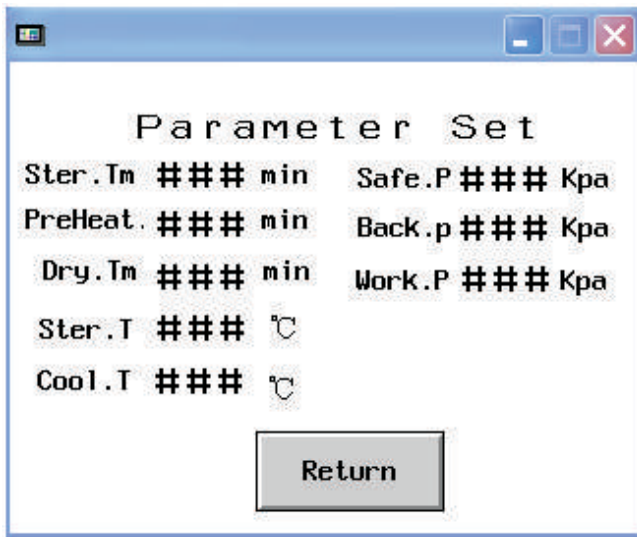
## 2. Clothing Sterilizing Program:

It is used for sterilizing the clothes and dressing bag. The sterilizing program is composed of pulsation vacuum, rising temperature and sterilizing (keeping the same temperature for a certain time) and drying. The users can set the sterilizing program according to the goods' characteristics and manufacturing requirements. The setting range of the sterilizing parameters is: Sterilizing Pressure: 0.07-0.22MPa, sterilizing temperature, 115-134?, sterilizing time 1-99minutes, drying time 1-99minutes.





**3. Liquid Sterilizing Program:**

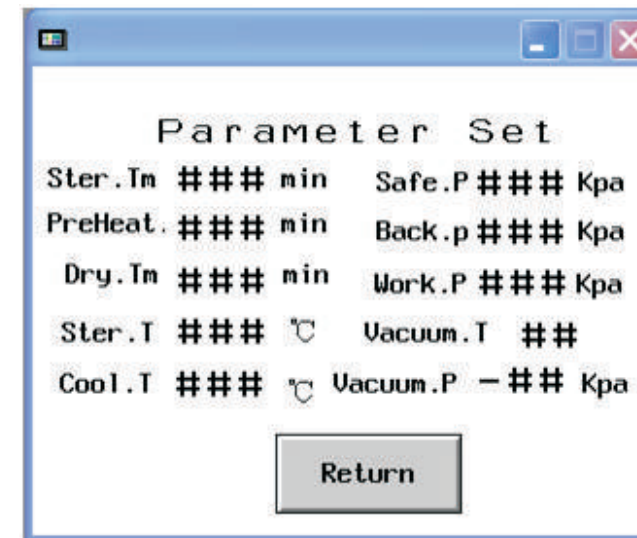


It is used for sterilizing the less amount of liquid in the unsealed bottles and culture medium. The sterilizing program is composed of warming-up, rising temperature and sterilizing (keeping the same temperature for a certain time) and cooling. The users can set the sterilizing parameters according to the goods' characteristics and the manufacturing requirements. The setting range of the sterilizing parameters is: Sterilizing Pressure: 0.07-0.22Mpa; Sterilizing Temperature: 115-134??Sterilizing Time: 1-99minutes.

**4. BD-test and leakage test programs**

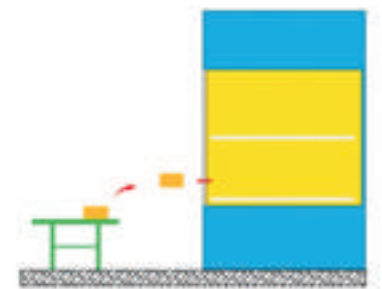
They are used for testing the machine.

**5. Special Sterilizing Programs can be set according to the users' requirements.**



**Loading Ways of Goods:**

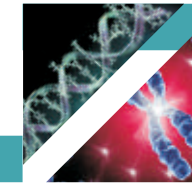
The goods is put into the sterilizer chamber by hands.



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## Steam Generator

1. The sterilizer has inbuilt electric heating steam generator, which generates the steam for sterilizing by itself.
2. The material of the steam generator is Ss304.

Parameter Table:	
TSQ-23098-TKS -202II	0.25m3
TSQ-23098-TKS -202II-D	0.25m3
TSQ-23098-TKS -203II	0.36m3
TSQ-23098-TKS -203II-D	0.36m3
TSQ-23098-TKS -206II	0.6m3
TSQ-23098-TKS 206II-D	0.6m3
TSQ-23098-TKS -208II	0.8m3
TSQ-23098-TKS -210II	1.2m3
TSQ-23098-TKS -215II	1.5m3
TSQ-23098-TKS -220II	2.0m3
TSQ-23098-TKS -225II	2.5m3





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