H_2O_2 Low Temperature Plasma Sterilizer

PS-100X

PS-100XP

PS-200X

PS-40X

Product introduction

WANROOE Plasma sterilizer takes H_2O_2 as sterilizing agent and form plasmatic state of H_2O_2 by electromagnetic field under low temperature. It combines both gaseous and plasmatic H_2O_2 to make sterilization for the items in chamber and decomposes the residual H_2O_2 after sterilization.

It is widely used in CSSD or other medical institute for the sterilization of electric wire and cable, optical glasses and glass lens, power equipment and batteries, endoscopes, catheter, nonmetallic and other wet or heat sensitive instruments.

Scope of application

The sterilizer is applicable to sterilize the medical instruments that are thermolabile or non-moisturetight. It is not applicable to the sterilization of liquid, powder or cotton fabrics. All the medical instruments that meet the following conditions can be processed by this sterilizer.

PS-100:

- Metal tubular instrument: inner diameter≥1mm; length≤500mm
- Nonmetal tubular instrument: inner diameter≥1mm; length≤2000mm

PS-200:

- Metal tubular instrument: inner diameter≥0.8mm; length≤300mm
- Nonmetal tubular instrument: inner diameter≥1mm; length≤1000mm

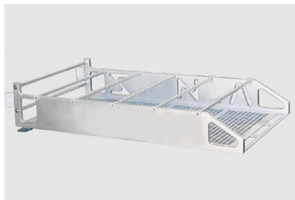
H_2O_2 Low Temperature Plasma Sterilizer

Product features

- **Low temperature sterilization**
  The sterilization temperature is 50±5℃ which is much lower than steam sterilization. It is dry sterilization that has no harm on instrument, so it extends the device service life.
- **Safe and environment friendly**
  The matter after sterilization is water and oxygen molecule that have no toxic harm to staff or patient, and there is no need for drainage or air exhausting. High efficient H_2O_2 filter is installed in the exhausting outlet to guarantee no H_2O_2 pollution to the environment.
- **Time-saving and cost-efficient**
  Rectangular chamber has greater capacity, high efficiency and short sterilizing cycle (≤50mins). The sterilized articles can be used directly without extra processing. It can increase the instrument turnover and decrease the storage of precious instrument to cut cost indirectly.
- **Convenient**
  Only power supply is needed for installation. The system adopts man-machine control interface with intelligent program design. Equipped with foot switch (alternative) and integrated biological incubator (alternative).
- **Multiple models**
  The door structure of the sterilizer is customizable (single or double door). To meet pharmaceutical factory needs, chamber material can be stainless steel.
- **Reliable sterilization**
  The chamber adopts alloy material which has good thermal conductivity to guarantee a stable temperature in the chamber. The purification system makes the H_2O_2 diffuses uniformly. The low temperature storage system provides a stable concentration of H_2O_2.
- **Safe sealing door**
  The sterilizer adopts mandril-driving auto overhead door with reliable sealing function and safe lock device to guarantee personal safety.
- **Data management**
  The 2048M storage (alternative) can store original data for inquiring. Mini printer can be used to print operation data timely. There are two types of record methods to guarantee the data is 100% acquirable.
- **Advanced configuration**
  The vacuum pump, controller, pressure transmitter and other key components are world famous brand. The sterilizer equipped with multiple programs and bar code identification system (alternative).
- **Reassuring**
  We provide comprehensive operation training materials to key components maintenance intelligent reminding system for your convenience.

Alternative configuration

- **USB flash disk storage**
  Timely sterilizing information storage to guarantee all data can be safely stored and traced during the sterilizer service life. This configuration can also be updated to traceability system.
- **Integrated biological incubator**
  The biological incubator will timely display temperature and incubate time. It equipped with independent control system that could work in the case of the sterilizer switched off.
- **Foot switch**
  Simply kick the switch to open or close the door.
- **Alloy storage rack**
  The alloy storage rack realizes that sterilized articles can be separately stored.
- **Metallic sterilizing container**
  To improve sterilizing result, we provide various sterilizing container for different kinds of instruments and operation kits.
- **Auto elevating trolley**
  The trolley equipped with auto elevating platform, chargeable lithium battery. The convenient memory function could record three different positions.



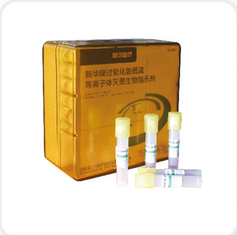
Auto elevating trolley

Order code	T-100	T-200
Overall dimensions(L×W×H)mm	1150×780×1165	1650×780×1165
Suitable sterilizer	PS-100	PS-200

Technical Parameters

Model	PS-40	PS-100		PS-200	
Order code	PS-40	PS-100X	PS-100XP	PS-200X	PS-200XP
Chamber dimensions (L×W×H)mm	650×380×260	750×450×400	750×450×400	1250×450×400	1250×450×400
Volume (L)	64	135		225	
Overall dimensions (L×W×H)mm	850×725×750	990×760×1600	990×760×1600	1460×760×1600	1460×760×1600
Weight (Kg)	200	400		500	
Power supply	220V 50Hz	380V 50Hz		380V 50Hz	
Power (Kw)	3.5	3.8		4.7	
Environment temperature	10~40				
Minimum installation room(L×W)mm	1500×900			2000×1200	
Minimum repair distance	1 meter for each side				

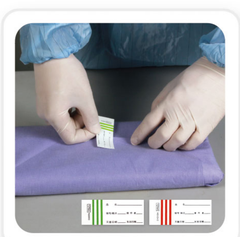
Consumable items



Biological indicator (self-contained)
Bacteria: Thermophilic fat bacillus
Quantum: $2\sim5\times10^6$

Chemical indicator card

Microbicide
Name: hydrogen peroxide (H_2O_2)
Concentration: 60%
Specification: 12 capsules per cassette



Chemical indicator label

Paper-plastic wrapping bag
Size: wide: 75/100/150/250mm

Non-woven fabric
Size: 500×500mm, 800×800mm, 1200×1200mm

100% Ethylene Oxide Gas Sterilizer

XG2.C-130 / XG2.C-220

Product introduction

XG2. C series sterilizer takes 100% ethylene oxide (EO) gas as sterilization medium. It is mainly used to make sterilization for precise medical instrument, optical instrument, and medical electronic instrument, plastic and medical materials that cannot bear with high temperature and wet sterilization.

EO gas is one of the most efficient low temperature sterilization agents. It has advantage of wide-pedigree bacterium killing range, strong penetrability, no damage and pollution, easy and reliable chemical and biological monitoring method.

Product features

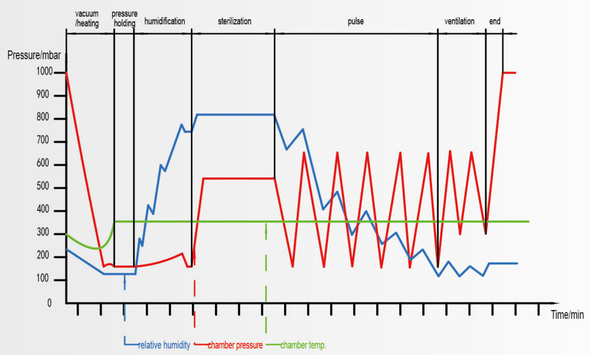
- **Negative pressure in whole cycle**
  Chamber pressure is always negative in whole cycle ensures EO gas no leakage to outside during working.
- **Safety EO gas puncture device**
  EO gas can automatically punctured by special device in the chamber, no need human intervention.
- **Chamber pressure real-time monitoring function:**
  Any pressure abnormal in the chamber will cause the machine alarm.
- **Efficient ventilation system**
  Automatic pulse Vacuum ventilation ensures EO gas exhaust thoroughly.
- **Door interlock**
  The door cannot be opened while program is running.
- **EO gas concentration monitor (optional)**
  Accuracy: 0.1PPM, portable design.

100% Ethylene Oxide Gas Sterilizer

- **Accurate parameter control**
  Sterilization temperature, humidity, pressure and time data are collected by relative sensor and transferred to PLC.
- **Perfect chamber temperature conducting**
  Chamber is made of aluminum alloy which has good thermal conductivity makes chamber temperature conducting fast and uniformity.
- **Dual sterilization temperature choices**
  High temperature 55℃, Low temperature 37℃.

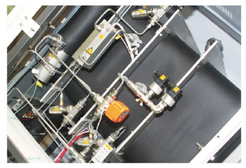
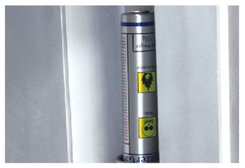
- **Humidify control system**
  Humidity sensor in high accuracy ensures chamber humidity keep in stable level.
- **Power off memory function**
  Once power off, the sterilization data will be saved automatically and will automatically continue the sterilization when power on.

Sterilization process



Technical parameters

Model	XG2.C	XG2.C
Order code	XG2.C-130	XG2.C-220
Chamber dimension (L×W×H)mm	750×450×400	1250×450×400
Overall dimension	950x860x1730	1450x860x1730
Chamber volume L	135	225
Net weight Kg	300	400
Input power	3.5kVA, 220V,50Hz	4.5kVA,220V,50Hz

EO gas can		
Oder code	Z-100	V-170
Net weight	100g	170g
Suitable sterilizer	XG2.C-130	XG2.C-220
Sterilization concentration	735mg/L	750mg/L

Automatic lifting trolley		
Oder code	T-100	T-200
Loading platform dimension (L×W)mm	800×400	1300×400
Overall dimension(L×W×H)	1150×780×1165	1650×780×1165
Sterilization concentration	735mg/L	750mg/L
Lifting range	720-1220	720-1220
Max. load capacity Kg	100	150
Weight	55	70
Suitable sterilizer	XG2.C-130	XG2.C-220