#### Ethylene Oxide Sterilizer

| Order No.                       | XG2.C-130     | XG2.C-130S    | XG2.C-220     | XG2.C-220S    |
|---------------------------------|---------------|---------------|---------------|---------------|
| Chamber size ( L×W×H ) mm       | 750×450×400   | 750×450×400   | 1250×450×400  | 1250×450×400  |
| Overall dimensions ( L×W×H ) mm | 950×830×1730  | 1104×830×1730 | 1450×830×1730 | 1604×830×1730 |
| Package size ( L×W×H ) mm       | 1050×930×1900 | 1184×930×1900 | 1550×930×1900 | 1684×930×1900 |
| Sealing door                    | Single door   | Double door   | Single door   | Double door   |
| Chamber volume ( L)             | 135           | 135           | 225           | 225           |
| Net weight ( kg )               | 300           | 300           | 400           | 400           |
| Power supply (AC220/50Hz)       | 3.5kw         | 3.5 kw        | 4.5 kw        | 4.5 kw        |

#### Ethylene Oxide Gas Tank

| Order No.             | Z-100                | V-170                |
|-----------------------|----------------------|----------------------|
| Tank Net weight       | 100g                 | 170g                 |
| Applicable sterilizer | XG2.C-130/XG2.C-130S | XG2.C-220/XG2.C-220S |

#### **Automatic Lifting Trolley**

| Order No.                       | T-100                | T-200                |
|---------------------------------|----------------------|----------------------|
| Overall dimensions ( L×W×H ) mm | 1150×780×1165        | 1650×780×1165        |
| Max. load weight ( kg )         | 100                  | 150                  |
| Applicable sterilizer           | XG2.C-130/XG2.C-130S | XG2.C-220/XG2.C-220S |

### Ethylene Oxide Exhaust Gas Disposer

| Order No.                   | REO-10          |  |
|-----------------------------|-----------------|--|
| Overall dimensions(L×W×H)mm | 1100×550×1050   |  |
| Net weight ( kg )           | 150             |  |
| Power conditions            | AC380 50Hz/13kw |  |

#### **Environmental Concentration Safety Monitoring Alarm System**

| Components                                    | Order No. |
|---|-----------|
| Alarm control host                            | ET3000    |
| Ethylene oxide concentration monitoring alarm | ET3000-1  |

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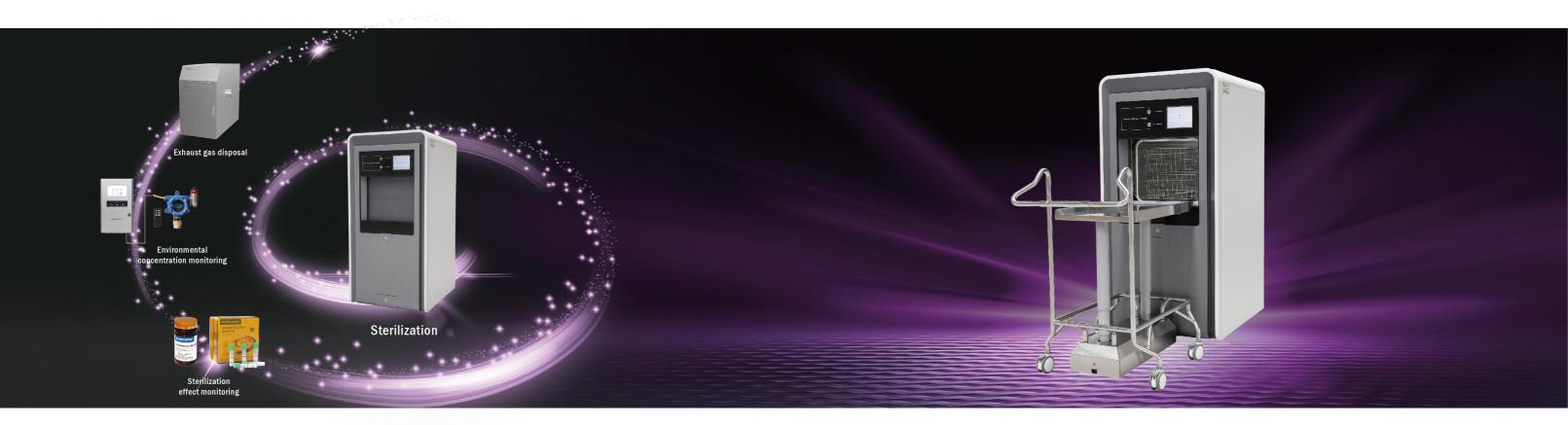
\*Version: 2022. 01



# XG2.C Ethylene Oxide Sterilizer



# **XG2.C** Ethylene Oxide Sterilization Integrated Solution



# **Ethylene Oxide Sterilization Integrated Solution**

#### It features:

- Wide sterilization spectrum
- High penetration
- No damage to articles
- No environmental contamination
- Complete, simple and reliable chemical detection and biological monitoring methods
- Easy preservation of sterilized items

It is a necessary low temperature sterilization method for hospitals

With years of technical accumulation in the field of ethylene oxide sterilization, SHINVA can provide you with comprehensive and systematic solutions.

# **Ethylene Oxide Sterilizer**

XG2.C Ethylene Oxide Sterilizer uses 100% ethylene oxide gas as sterilization medium, which is used for sterilizing moisture and heat sensitive items, such as surgical precision medical instruments, optical instruments, electronic equipment, plastic products and various medical supplies, etc. It does not produce any corrosion on plastic, metal and rubber materials.



## Safe

- Negative pressure working system The whole process is under negative pressure, which ensures that EO gas does not spill out during the whole operation, even if there is a leak, it is the outside air that enters the chamber.
- Negative pressure puncture gas canister The 100% pure EO gas is contained in disposable aluminum alloy canisters, which will automatically puncture in the sterilization chamber only when the sealing and vacuum of the sterilization chamber meet the requirements.
- Automatic safety monitoring function Real-time monitoring of pressure changes in the sterilization chamber, if there is an abnormal rise, it will alarm and run emergency ventilation.
- Effective ventilation to remove residues Fully automatic pulse exhaust ventilation minimizes ethylene oxide residues in sterilized items.
- O Door safety interlock device The door cannot be opened when the cycle is running.

# **XG2.C** Ethylene Oxide Sterilization Integrated Solution



## Reliable

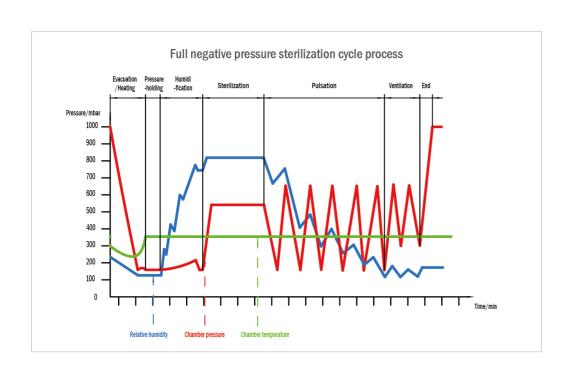
- Precise control of sterilization parameters The temperature, humidity and pressure related to sterilization are precisely collected by the corresponding probes, and the cycle is strictly controlled by the controller.
- Aluminum sterilization chamber The aluminum body has good thermal conductivity and the temperature of the chamber is more balanced.
- $\odot$  Two sterilization temperature options 55°C and 37°C, multiple temperature probes to protect the equipment
- Dual pressure control function Two pressure controllers monitor the pressure changes in the chamber in real time to ensure that nothing can go wrong.
- Humidification control system Unique structure, precise control of humidification effect, built-in humidity sensor for real-time monitoring.
- Power failure memory function After power failure, the sterilization information is memorized, and the machine can continue to work without restarting when power is restored.
- Digital connection to remote server, real-time monitoring of equipment operation status.





## Convenient

- Intelligent automation design Microcomputer control, touch screen display of working status (including temperature, humidity, vacuum level, etc.). If there is a fault or error, the machine will automatically stop running or emergency treatment, alarm and print all information.
- O Electric lifting door Reliable sealing and easy to operate.
- Ocolor touch screen Man-machine control interface, more intuitive and convenient operation.
- Simple installation Only 220V power supply and exhaust pipe are needed, and the equipment has built-in vacuum pump and compressed air pump, which is economical and reliable.



| Cycle                       | 37℃ cycle      | 55℃ cycle      |
|-----------------------------|----------------|----------------|
| Sterilization exposure time | 3 hours        | 1 hour         |
| Ventilation resolution time | Min. 2.5 hours | Min. 2.5 hours |









# **Ethylene Oxide Sterilization Monitoring Consumables**

SHINVA chemical indication card for ethylene oxide sterilization





Order No.: 010007

SHINVA chemical indicator labels for EO sterilization







Order No.: 0100058

Roll label

Can print all kinds of information according to the demand; can realize computer batch printing; can be used for traceability system.





Order No. : 0100068

O Ethylene oxide sterilization bio-indicator

- Bacillus subtilis black variant bacterium ATCC 9372 is used;
- The results can be read after sterilization and incubation at 37°C for 48 hours.



Order No.: 010052

# **XG2.C** Ethylene Oxide Sterilization Integrated Solution

# **Environmental Concentration Safety Monitoring Alarm System**

Environmental Concentration Safety Monitoring System is specially designed to continuously monitor the environmental concentration of ethylene oxide gas in the low temperature sterilization chamber, and alarm when the gas concentration exceeds the safety range.







#### Concentration monitoring alarm

- O Collect the gas concentration value in the room
- O Alarm when the concentration value exceeds the safety

#### **Alarm Control Host**

- O Analyze and process the data collected by the concentration detection alarm
- O Alarm when the concentration value exceeds the safety range

## **Product Features**

- Professional Real-time display of 8h and 15min weighted average gas concentrations;
- Remote monitoring Real-time monitoring of indoor concentrations from up to 200 meters away via the alarm control host;
- O Safe and reliable Alarm linkage mechanism, if the indoor gas concentration is too high, it will automatically start the indoor exhaust fan;
- Easy operation > 7" colorful wide screen display with full touch operation, humanized operation interface, built-in clock and parameters:
  - > Automatic storage function
  - > Remote control, no need to operate from close distance.

# **Ethylene Oxide Exhaust Gas Disposer**

Through high-temperature catalytic decomposition, the ethylene oxide exhaust gas left after sterilization of ethylene oxide is decomposed into non-toxic carbon dioxide and water vapor and discharged directly to the outdoors without installing high-altitude emission piping. The decomposition efficiency is over 99.99%, which greatly reduces the emission of ethylene oxide.





# **Product Advantages**

- **⊙ Safety** > With self-test function and self-monitoring system;
  - > During the decomposition process, the equipment is under negative pressure, no leakage, safe and reliable;
  - > During the decomposition process, ethylene oxide gas does not come into contact with open flame and the gas concentration is greatly diluted, which is far below the explosion limit;
- High efficiency The purification efficiency of ethylene oxide exhaust gas can reach more than 99.99%.
- O Automatic operation One-touch start, linkage control with sterilizer for automatic operation, easy to operate.
- Remote control The exhaust gas disposer can be controlled and monitored from up to 100 meters away.
- Multiple installation methods Indoor or outdoor installation, easy to install.