

Large Scale Ethylene Oxide Sterilizer

Model SDE02.0



PRODUCT CATALOG

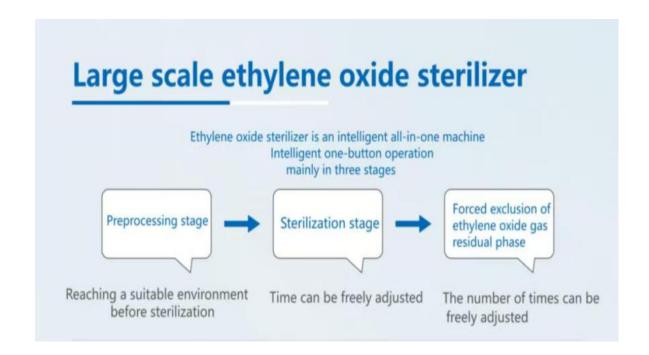


Product Introduction

The SDEO Series Large Ethylene Oxide Sterilizer is a specialized device designed for low-temperature fumigation sterilization using ethylene oxide gas. It operates under specific temperature (low-temperature), pressure, humidity, and duration conditions to sterilize items enclosed within its sealed sterilization chamber. Ethylene oxide gas is a highly reactive chemical disinfectant, offering not only broad-spectrum antimicrobial efficacy but also reliable sterilization performance.

Features

- ◆ Sterilizers a large number of items at a time;
- ◆ One button fully automatic operation, sterilization record printing;
- ◆ Full range of sensing alarms
- ◆ Automated detection
- ◆ Implementation of human-machine interface;
- ◆ Widely used in thoracoscopy, bronchoscopy, laparoscope, cardiac catheters. surgical equipment, anesthesia bag, mask, protective clothing sterilization;





Technical Parameter Description	
Model & Power	SDEO2.0/6KVA
Chamber Size (L * W * H)	$1500*1000*1400$ mm (allowable deviation $\pm~10\%$)
Overall Size (L * W * H)	$2250*1350*1950$ mm (allowable deviation \pm 10%)
Weight	1100kg
Working Pressure	-70 kPa to 60 kPa, Pressure Holding: 60 min, Leakage Rate < 0.01 kPa/min
Sterilization Temperature	35℃-55℃
Sterilization Humidity	30%-90%
Door Opening Mechanism	Sector door or sliding door (user-selectable).
Inner Chamber Material	Constructed with ≥6mm thick Grade 304 stainless steel (national standard), using seamless argon arc welding and flaw detection technology. Durable design with a service life exceeding 10 years.
Exterior Material	Premium brushed stainless steel plate (Grade 304, δ =1.2mm).
Heating System	Wide PTC silicone heating plates on all six sides, with independent temperature control for uniform heat distribution. Dual temperature protection for sterilization safety.
Sterilizer Door	Single-door structure with pneumatic sealing (automatic smooth sliding mechanism). Safety lock ensures door remains sealed during malfunctions. Sealing Method: Silicone rubber inflatable seal.
Monitoring Instruments	Real-time pressure, humidity, and temperature monitoring with precision of $\pm 1\%$.
Humidification System	Steam pipelines: SUS304 stainless steel; Integrated automatic steam generator with dedicated sterile-grade filtered injection lines. Real-time humidity monitoring with alarms for deviations. Chamber humidity tolerance: $\pm 5\%$ RH.
Sterilizing Agent	80% ethylene oxide (EO) mixed with 20% CO ₂ , delivered via single-canister bottle connection for stable and efficient dosing.
EO Residual Removal System	Filtered air injected into the chamber to restore atmospheric pressure; Programmable vacuum cycles (9 -



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	99 repetitions) to evacuate residual EO; Final EO gas
	extraction via water-ring vacuum pump, ensuring
	thorough dissolution in water.
Printing & Storage	Built-in mini printer for sterilization records; Internal
	storage capacity: >8,000 cycles of logs and alarms; USB
	data export with one-click operation.
Alarm System	Real-time fault monitoring with audible/visual alarms
	and English error prompts; Power failure protection and
	memory retention to resume operations
	post-interruption.
Applications	Suitable for heat-sensitive, moisture-sensitive,
	vacuum-tolerant, and EO-compatible items,
	including:Medical devices, endoscopes, rubber/plastic
	products, pharmaceuticals, textiles, biologics, cultural
	relics and archives, instruments, hygiene products, etc.
Power Supply	380V AC.

Notes:

- ◆Technical terms adhere to ISO standards (e.g., SUS304, PTC, RH).
- ◆Units (kPa, ° C, % RH) follow international scientific notation.
- ◆ Safety features (e.g., dual temperature protection, pneumatic sealing) are emphasized for compliance with industrial equipment regulations.
- ◆ Functionality (e.g., programmable vacuum cycles, USB export) highlights user convenience and precision.