

LARGE ETHYLENE OXIDE STERILIZER

MODEL SD-E10³



PRODUCT INTRODUCTION

- SD-E series ethylene oxide sterilizer is a special equipment that uses ethylene oxide gas to perform low-temperature fumigation sterilization on items sealed in the sterilization room under a certain temperature (low temperature), pressure, humidity and a certain action time. Ethylene oxide gas is a very active chemical disinfectant, which can not only achieve broad-spectrum sterilization, but also reliable sterilization.

PRODUCT FEATURES

- Machine controlled by Siemens PLC , all process parameters show on big color LCD screen;
- Easy installation , not need complex pipe and valve system;
- Compact machine structure, and a small room can meet the needs of installation space;
- Convenient installation, no need factory engineers overseas on site install , saving cost;

No	NAME	Technical Parameters Description
1	Model & Power	SD-E10 ³ / 14KVA
2	Inner Chamber Dimensions	4000*1500*1800mm (Allowable deviation $\pm 10\%$)
3	External Cabinet Dimensions	5100*2000*2450mm (Allowable deviation $\pm 10\%$)
4	Weight Approx.	5 tons (Net Weight)
5	Working Pressure	-70kPa ~ 60kPa, Pressure Holding: 60min, Leakage Rate < 0.01 kPa/min
6	Sterilization Temperature	35°C - 55°C
7	Sterilization Humidity	30% - 90%
8	Door Opening Method	Sector door or sliding door, optional
9	Inner Chamber Material	Made of ≥ 6 mm thick 304 stainless steel national standard steel plate, using full-panel argon arc welding with flaw detection process. Sturdy and durable, inner chamber service life exceeds 10 years.
10	External Cabinet Material	Made of high-quality 304 stainless steel brushed plate, $\delta=1.2$ mm
11	Heating Method	Uses high-quality, widened PTC silicone rubber panels for six-sided heating, with comprehensive independent temperature control. Good thermal conductivity, uniform temperature, equipped with dual sterilization temperature protection inside the chamber.
12	Sterilizer Door	Single door structure, pneumatic single door sealing (automatic smooth sliding door opening/closing). In case of failure during use, it must ensure the door remains locked and sealed. Sealing method: Silicone rubber external inflatable seal.
13	Monitoring Instruments	Automatic real-time monitoring of pressure, humidity, and temperature with precision and error of $\pm 1\%$.
14	Humidification System	Steam pipes made of SUS304 material. Equipped with an automatic steam generator and corresponding pipelines to form an independent steam injection line with a filter (sterilizing grade). Steam pipes are made of SUS304 material. Automatic real-time monitoring, alarms when humidity exceeds set value, chamber humidity

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		error: $\pm 5\%$ RH.
15	Sterilizing Agent Type	Uses 80% Ethylene Oxide mixed with 20% Carbon Dioxide. Single cylinder connection to the dosing port for injection, stable and efficient.
16	Residual Removal System	Sterilant gas is discharged, and air enters the sterilization chamber after being filtered. According to the sterilization process, filtered air can be introduced to reach atmospheric pressure, followed by evacuating the sterilization chamber, customizable for 9-99 cycles. After sterilization is complete, excess EO gas in the chamber is extracted by a water-ring vacuum pump and fully mixed and dissolved with water simultaneously.
17	Printing & Storage	Function Built-in miniature printing device for printing and saving sterilization records. Built-in storage capable of storing records for over 8000 cycles as well as alarm records. Equipped with USB data export function for sterilization data, allowing one-click operation for data export.

PHYSICAL PICTURE:



DETAILED IMAGES:



OPTIONAL ACCESSORIES

Delivery car inside machine: It is convenient to transport the objects to be sterilized to the sterilization room, which is convenient and labor-saving. It is made of 304 stainless steel and has super load-bearing capacity.



