

eto sterilizers

S T E R I D I U M

Over 25,000 healthcare facilities worldwide use ETO gas sterilizers to process sensitive instruments. The **Steridium** range provides the most simplest of all ethylene oxide sterilizing processes, which has been proven in over 5,000 installations in the past 30 years. The ETO 170, 300 and 500-litre capacity sterilizers have been designed to meet the wide variety of applications and needs of clinics, hospitals, laboratories and medical device manufacturers which require a sterilizing facility for heat-sensitive items which would otherwise be damaged by high temperatures, pressures, or vacuums.



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The **Steridium** system employs 100% ethylene oxide cartridges sealed with the load into a pervious sterilizing bag and processes the load at temperatures of up to 50°C. Gas diffusion technology results in a slow release of ETO gas through the bag membrane, and is then removed by the sterilizer's ventilation system. Any number of bags can be loaded into the stainless steel chamber, thereby significantly reducing the amount of gas used compared to other systems which require the entire sterilizing chamber to be filled with gas. The amount of gas consumed is determined by the size of the load.

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Steridium ETO – The Ideal Low Temperature Sterilizers

Steridium engineers have combined the advanced control systems technology used in our high temperature steam autoclave systems, with the heat transfer technology developed for our precision laboratory incubators. When packaged in our finely engineered cabinets, the end result is a range of low temperature sterilizers ideal for a variety of applications, and with unsurpassed features and benefits for the user.

Selectable sterilizing temperatures from 37 - 50°C

Accurate control to <math><0.5^{\circ}\text{C}</math> throughout the chamber

Variety of chamber volumes – 170, 300 & 500 litres

Sterilization and aeration over 14 hrs in one cabinet

100% ethylene oxide – no harmful fluocarbons

Low installation and maintenance costs

80% less gas consumption

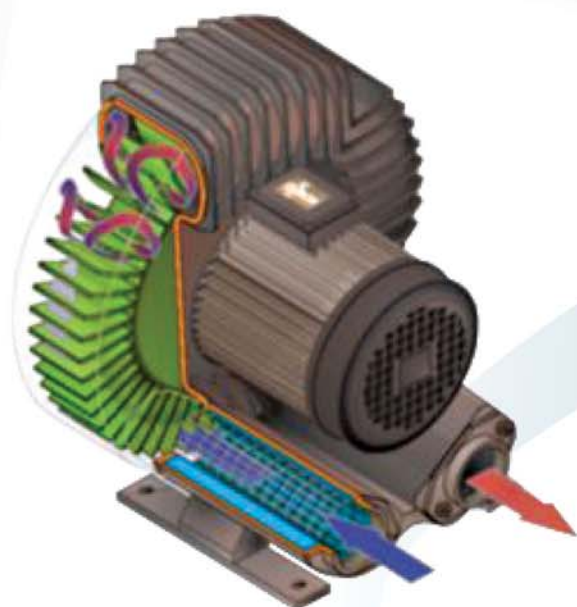
Suitable for sterilizing a wide variety of products

- Electronics •Plastics •Sharps •Optics

State of the Art Control and Monitoring Systems

Every ETO sterilizer is fitted with the latest state of the art microprocessor based control and monitoring system. High-resolution PT100 sensors enable precise control of the chamber temperature which is displayed on the bright, easy to read vacuum fluorescent display together with any alarm signals that might occur. Operation of the ETO sterilizers is extremely simple with only four buttons used for control of the entire process, which is as simple as selecting the cycle, opening the door, loading the chamber and pressing the start button. All functions are thereafter carried out automatically until the end of the process.

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Highest Standards of Manufacture and Safety

Steridium uses only the highest quality components in the manufacture of the ETO range of sterilizers. The interior cabinet is made of high grade stainless steel separated from the powder-coated exterior by 50mm of high density mineral wool insulation. A circulation fan ensures accurate spatial stability throughout the chamber. The fan motor is mounted externally to ensure the utmost safety of the user. No electrical components other than the PT100 sensors are located within the chamber.

Warm air and gas diffused from the sterilizing bags are drawn through the chamber by a silent, pulsation-free side channel blower, which ensures that the chamber is always operating under a slight vacuum and prevents any leakage of gas into the room. Cold air is also drawn from the top of the door and the electrical control cabinet throughout the cycle to ensure operator safety at all times. Correct operation of the extraction system is monitored continuously throughout the sterilizing cycle, and any failure is immediately displayed on the operator control panel and recorded on the panel printer.

Data Logging of Cycles and Alarms

In addition to being displayed on the front panel, a record of time and chamber temperature is printed on a flush panel mounted printer at preset intervals. Any alarm that might occur during a cycle is also displayed on the screen and printed.

The controller is fitted with additional features, accessible through password codes, which enable engineering functions such as calibration and programme setup to be performed.



Sizes for Every Requirement

There are three sizes in the **Steridium** range of ETO sterilizers – 170, 300 and 500 litres. The large number of shelf positions enables flexible configurations to suit the load – from endoscopes in hospitals to trays of products such as sutures in medical device manufacturing facilities. The size of sterilizer required is determined by the maximum anticipated capacity at any given time. Because sterilization takes place inside a diffusion bag, as little as one bag can be sterilized at times of low demand without wasting excess gas.

Steridium ETO sterilizers require no compressed air supply, water supply or drainage lines. They are simple to install, requiring only 220/240V 50/60Hz single-phase power supply, and an exhaust vent to atmosphere.



SPECIFICATIONS & OPTIONS

MODEL	ETO 170	ETO 300	ETO 500
Chamber Dimensions	700(w) x 400(h) x 600(d)	700(w) x 750(h) x 600(d)	700(w) x 1200(h) x 600(d)
Capacity (Litres)	170	300	500
Shelf Positions	4	8	13
Electrical	220/240V single phase 50/60Hz		
Exhaust Vent	50 mm diameter		



Consumables and Accessories

Steridium supplies kits which contain all the consumables required for sterilizing and monitoring the efficiency of the sterilizing process. Each kit includes gas cartridges, diffusion bags, humidifying chips and chemical integrators.

Also available are monitoring badges for measuring personnel exposure to ETO gas, and hand-held meters for maintenance staff to check levels of gas in rooms, ducts and other affected locations.



If ETO is not suitable for your application, you might want to consider the **Steridium** range of *low temperature steam and formaldehyde (LTSF)* sterilizers which sterilize at temperatures from 55°C to 80°C, and can be supplied in combination with high temperature steam sterilizing cycles. Go to www.steridium.com