

GOLDEN STAR SURGICAL INDUSTRIES PRIVATE LIMITED

STEAM STERILIZER AUTOCLAVE & ETO STERILIZER

ETO STERILIZER



India's No.1
Hospital ETO Sterilizer

High-Quality Hospital ETO Sterilizers from India

OUR SERVICES

- ALL INDIA SERVICE
- MAKE IN INDIA PRODUCTS
- BEST QUALITY PRODUCTS
- ALL CERTIFICATE COMPANY



CONTACT NOW:-

www.goldenstarsurgical.com



BOQ OF FULLY AUTOMATIC ETO STERILIZER (IMPORTANT PARTS)

SR.NO	MATERIAL	MAKE /GRADE
01	INNER CHAMBER SS	JINDAL SS 304/ 316 GRADE
02	OUTER BODY SS	JINDAL SS 304 GRADE
03	DOOR	JINDAL SS 304 GRADE
04	GASKET	Silicon
05	GLASS WOOL	INSULATION 25 MM
06	PLC	DELTA
07	HMI	DELTA
08	EO GAS CARTRIDGE	GS ENTERPRISES
09	PUNEMATIC VALVE	JANATICS
10	VACUUM PUMP	MASS
11	DOOR CYLINDER	JANATICS
12	MAIN SWITCH	LARSEN & TOUBRO (L&T)
13	PRESSURE TRANSMITTER SENSOR	HUBA
14	TEMPERATURE SENSOR	THERMOTECH
15	VACCUM GUAGE	AKWALO
16	CYLINDER EO PUCH	JANATICS
17	EMERGENCY SWITCH	Schneider
18	TROLLY	JINDAL SS 304 GRADE

STRUCTURE PRINCIPLE OF ETO STERILIZERS :

➡ "Ethylene oxide sterilizer" is defined as equipment which uses ethylene oxide as a biocide to destroy bacteria, viruses, fungus and other unwanted organisms. Ethylene oxide is used in sterilization of items that are heat and moisture sensitive. E.T.O consists of a closed chamber mostly double jacketed, corrosion resistance, gas resistant of suitable alloy (mainly mild steel). The middle jacket is surrounded with the hot water to raise the temperature of the product. The outer jacket of ethylene oxide sterilizer is insulated with proper insulation material for heat resistant. This E.O. gas sterilizer equipment is provided with vacuum pump, pressure gauges, temperature gauges, and nozzle connection for hot & cold water. It consists of one door which is made with radial locking arrangement in order to make chamber close tight

TECHNICAL DETAILS

➡ Golden Sta Surgical Industries Pvt Ltd Ethylene Oxide gas Sterilizer are designed to used with Ethylene Oxide gas Cartridges to provide a safe & effective temperature Sterilization process for .GSSIPL has reliable uses Ethylene that provide the latest Technology. Golden Sta Surgical Industries Pvt Ltd Ethylene Oxide Gas Sterilizer uses heat and/ or Moisture -sensitive device .All Model Available in semi/automatic

FULLY AUTOMATIC

➡ In fully automatic, the Sterilization is a one - touch operation; where the operation loads the material in the trolley provided along with the machine, cycle then continues on own, and after sterilizing and aerating the load; cannot be modified by invoking the password command.

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Manufacturing plant :- PLOT NO 2 SANGAL SOHAL ROAD ADJOINING LEATHER COMPLEX
JALANDHAR 144002

EQUIPMENT DESCRIPTION

- ➔ Heating system
- ➔ Vacuum system
- ➔ Humidity System
- ➔ Control panel.
- ➔ Air Inlet Filter.
- ➔ PLC/ HMI
- ➔ Instrument Printer

OUTSTANDING FEATURES OF ETO STERILIZERS:

- ➔ Compact design to suit all environmental conditions.
- ➔ Internal cage provided for none sticking of bags inside the chamber.
- ➔ Provided with HMI screen complete PLC controlled.
- ➔ Provided with thermal printer
- ➔ Door is provided with joint less food grade gasket.

WORKING OF ETO GAS STERILIZER

➔PRE STERILIZATION CYCLE:-

This process begins with the end cycle of previous batch, when sterilization gets complete and complete ETO gas is removed from the chamber through vacuum pump. Aeration cycle process is carried out by drawing fresh air inside the chamber until the pressure inside the chamber becomes atmospheric. The door is opened, sterilized material is taken out and new batch is started. The material to be sterilized is fed into the ETO chamber before making a radial lock.

➔VACCUME CYCLE:-

Vacuum is done in two stages. 1) After feeding material into the chamber, the chamber inside is vacuumed to 250 to 300 mm of HG. Air is removed completely and Air nozzle vent is closed. 2) After sterilization is complete to remove ETO gas from the chamber.

➔STERILIZATION CYCLE:-

E.T.O gas is fed inside the chamber in appropriate proportion and simultaneously hot water is supplied in the jacket. This water inside the jacket is maintained at 80° C. The gas inside the chamber goes under thermal process thus increasing the pressure inside the chamber. When the pressure approaches the desired value i.e. (1.5 kg/cm² or 14.7 k pas), this pressure and allowable temperature is maintained for specific time (5 To 7 or 8 to 10 hours) depends upon the material to be Sterilizer

➔AERATION CYCLE:

- ➔ This process involves extracting residual gas out of the sterilized material followed after vacuum cycle. The air vent nozzle is kept open. The fresh air is allowed to pass inside the chamber until it attains atmospheric.



Manufacturing plant :- PLOT NO 2 SANGAL SOHAL ROAD ADJOINING LEATHER



COMPLEX JALANDHAR 144002

SAFETY FEATURE :-

- ➔ All sensor likend to the automation ensure reliability and failsafe operation.
- ➔ Screen on the control panel indicates a specific phase during the operation.
- ➔ Every cycle,there is a Leak period,which check the leakage and aborts the cycle if there is a leakage in the system.
- ➔ Negative Chamber pressure ensure that gas cannot escape into the operation area.Locked door sensor during cycle.
- ➔ Constant watch over entries and break diagnostic from autoy,which warns the operator,by means of message on indicator and buzzer.
- ➔ Cycle completion record is shown on the printout.
- ➔ Chamber and cabinet made of high - grade stainless steel.
- ➔ PLC display 7 cloure touch screen.



TABLE TOP ETO STERILIZER



FLOOR ETO STERILIZER

ABOUT US

We the ' GSSIPL ' is an organization committed to manufacturing and export of international quality Medical Equipment and laboratory Equipment in india & abroad since 2004 . We are dedicated to server the mankind and the nation by providing World class Medical Equipment and Laboratory Equipment at affordable prices.

01

Our Vision

To be best in class of laboratory and medical Equipment manufacture and Supplier with Achieving international quality standards a heading.

02

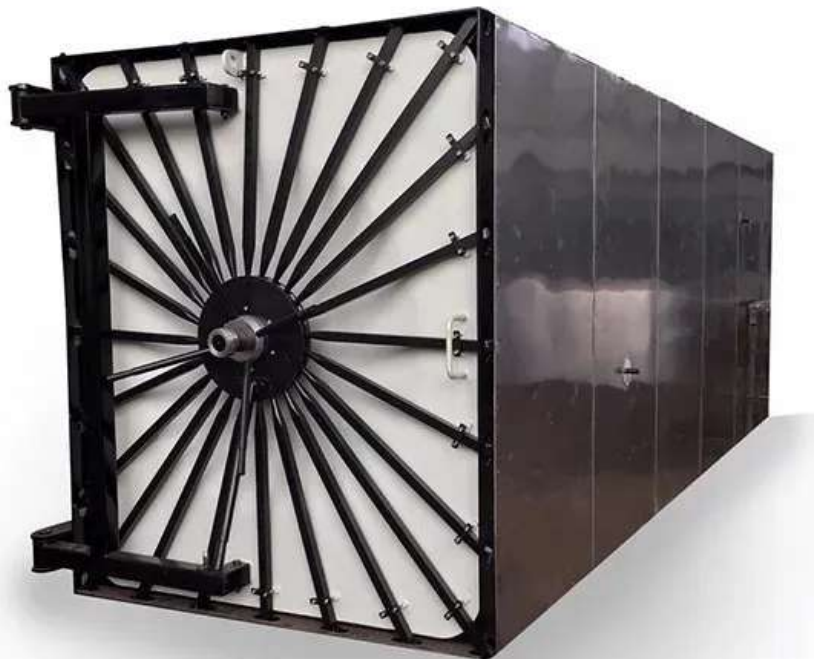
Our Mission

Provide the best products with international quality. Reliable low maintains as well as affordable laboratory and medical Equipment.

03

Technology

we have faith in trading latest and most scientific paths to manufacture each and every medical equipment with perfect precision so our products meet the right efficiency and perfect alignment .our products are specially designed,less maintenance, durability ,easy to operate and long service life.



ETO STERILIZER PRICE LIST

MODAL / SIZE	LITER CAPACITY	PRICE
GS-ETO-40:-(12X12X18)	40 LITER	
GS-ETO-60:-(12X12X24)	60 LITER	
GS-ETO-80:-(12X12X36)	80 LITER	
GS-ETO-115:-(12X12X48)	115 LITER	
GS-ETO-125:-(12X12X54)	125 LITER	
GS-ETO-150:-(16X16X36)	150 LITER	
GS-ETO-180:-(16X16X48)	180 LITER	
GS-ETO-200:-(18X18X36)	200 LITER	
GS-ETO-250:-(18X18X48)	250 LITER	
GS-ETO-330:-(24X24X36)	330 LITER	
GS-ETO-450:-(24X24X48)	450 LITER	



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