



# ETO STERILIZER

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Engineering

[www.etosterilizer.org](http://www.etosterilizer.org)



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# WHAT IS STERILIZATION?

**Sterilization is a process that eliminates, deactivates or destroys all forms of life and other genetic agents current in a indicated area, such as a surface, a capacity of liquid, medication, or in a composite such as genetic culture media.**



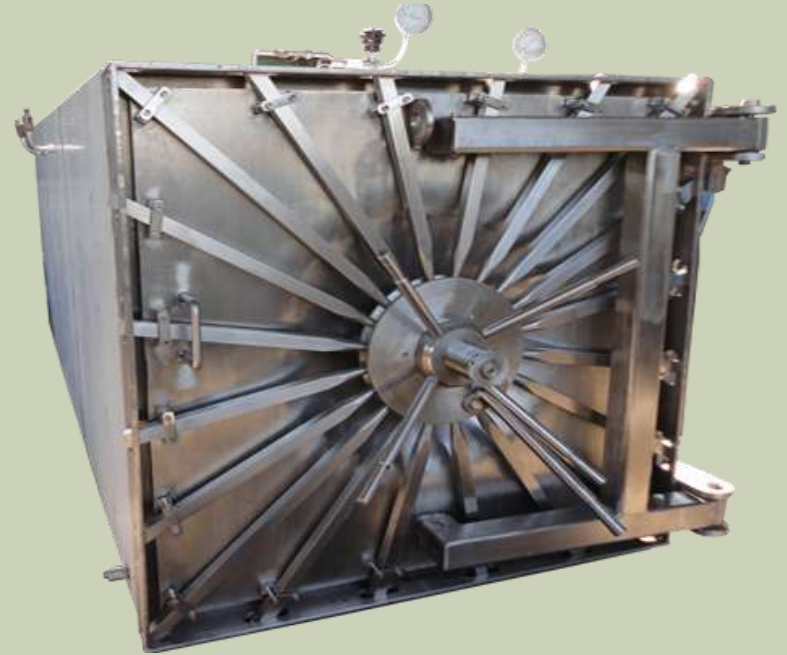
# TYPE OF STERILIZATION METHODS

- **ETO/EO Sterilization** – This technique uses Ethylene Oxide gas to sterilize objects that can't withstand the high heats or moisture produced via extra ways.
- **Steam Sterilization** – which is mostly used for glassware, medical instruments, and medicinal waste.



# WHAT IS ETO STERILIZATION?

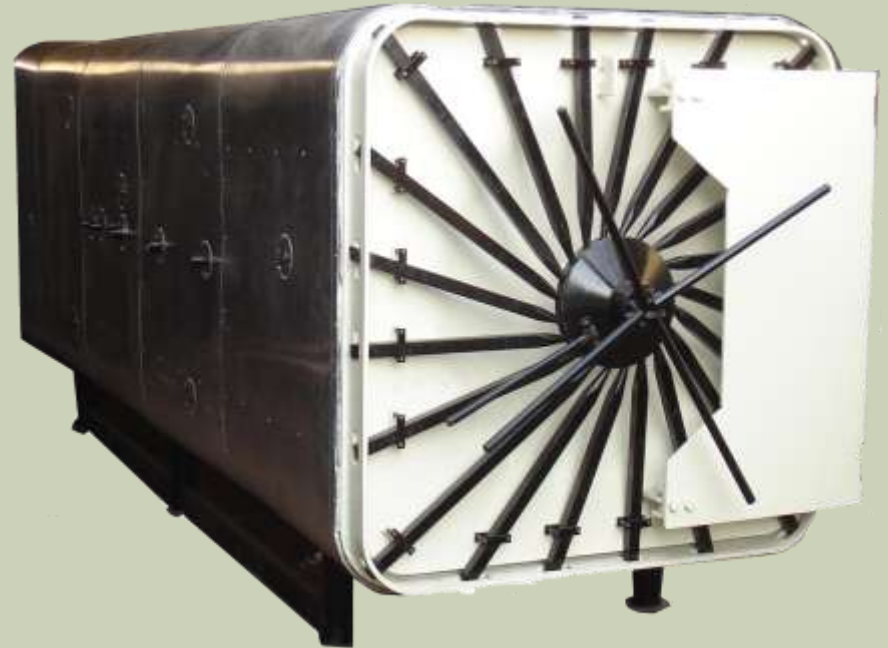
ETO sterilization is a simple organic composite that is generally used for gaseous sterilization of not reusable medical plans and healthcare produces. A varied variation of resources and modules generally used in the construction of these products may undergo ethylene oxide sterilization in their final breathable packing structure.





# WHAT IS ETO STERILIZER?

- ETO Sterilizer is equipment, Which facilitate ETO Sterilization process.
- ETO Sterilizers are available in various capacities from 0.45m<sup>3</sup> to 44m<sup>3</sup> volumetric capacities to carry out ETO Sterilization.





# TECHNICAL SPECIFICATION OF ETO STERILIZER

Model in Feet	Working Pressure (kg/cm <sup>2</sup> )	Working Temperature	Volumetric Capacity in m <sup>3</sup>	Water Circulation Pump	Vacuum Pump	Electric Heaters
2x2x4	1 to 1.5	55 to 60 °c	0.45 m <sup>3</sup>	0.5 HP	1 HP	3 KW
3x3x6	1 to 1.5	55 to 60 °c	1.46 m <sup>3</sup>	0.5 HP	1 HP	6 KW
4x4x6	1.0 to1.5	55 to 60 °c	2.72 m <sup>3</sup>	0.5 HP	1.5 HP	6 KW
4x4x8	1.0 to1.5	55 to 60 °c	3.60 m <sup>3</sup>	1 HP	2 HP	9 KW
5x5x10	1.0 to1.5	55 to 60 °c	6.97 m <sup>3</sup>	1 HP	3 HP	12 KW
5x5x15	1.0 to1.5	55 to 60 °c	11.25 m <sup>3</sup>	1 HP	3 HP	12 KW
6x6x15	1.0 to1.5	55 to 60 °c	16.2 m <sup>3</sup>	1.5 HP	5 HP	18 KW
6x6x20	1.0 to1.5	55 to 60 °c	19.44 m <sup>3</sup>	1.5 HP	5 HP	27 KW
7x7x20	1.0 to1.5	55 to 60 °c	26.46 m <sup>3</sup>	2 HP	7.5 HP	36 KW
7x7x30	1.0 to1.5	55 to 60 °c	44.1 m <sup>3</sup>	2 HP	10 HP	54 KW



# ADVANTAGES OF ETO STERILIZATION PROCESS

- It is able to sterilize some products and materials that could not be sterilized by traditional sterilization processes.
- That's a sterilization process having a **high efficiency** as an antiviral, bactericide and fungicide.
- This **sterilization process doesn't alter physical qualities and esthetic** of the product sterilized.
- Its **high diffusion coefficient** gives the advantage to reach any difficult access area like wrapping, creases, etc.
- It can also **sterilize thermo sensitive materials** without bringing propriety changes on them, many thanks to the fact that only a low temperature process is used.





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