



*RSD designs and manufactures Ethylene Oxide Sterilizers (EO/ETO) for the sterilization of thermo sensitive products (sensitive to heat and humidity) like syringes, catheters, dialysis cartridges, plastic dressings, sutures, etc.*



### Description:

Our design is modular type and gives the main advantage to divide the risk area in order to reduce the probability to have a potential explosive atmosphere. Those projects are customizable as we offer a very flexible design, according to the client requirements. Our chambers are prepared to work either with All in One cycle, or with preconditioning and degassing cells. We also propose all the ancillary equipment for turnkey projects.

Our standard designs go from 4 Euro pallets (10m<sup>3</sup>) up to 32 Euro pallets model (80,6m<sup>3</sup>), but the dimensions and design can be adjusted according to the final user needs.

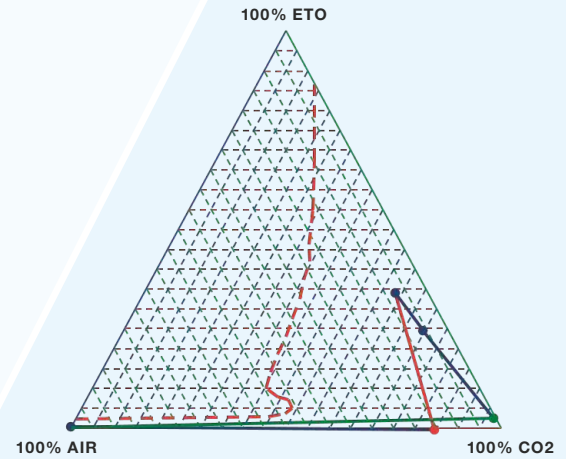
### Several advantages for our ETO sterilizers:

- Flexible design, based on several modules.
- High efficiency, optimizing energy consumption and cycle time.
- Excellent EO concentration and temperature uniformity (+/1°C).
- Use of 100% EO (+N<sub>2</sub>) as well as 90/10 mixture, to limit the chamber internal pressure (<+0,5b).
- High safety level, delivering ATEX certificate (zone 1 / zone 2).
- Use of well known brands for all the components.

Those ETO sterilization equipment use GMP designs and comply with the most stringent European standards.

## SAFETY:

For RSD, safety should be a priority for personal as well as for the sterilization equipment. For that, the PLC is composed of special safety modules, and is programmed together with the SCADA according the HAZOP of each project. In addition, several safeties are taken into account during the design, like for instance: 3 redundant safeties as minimum for any critical function (PL/SIL), automatic calculation of the inflammable diagram, use of flame arrestors, etc.

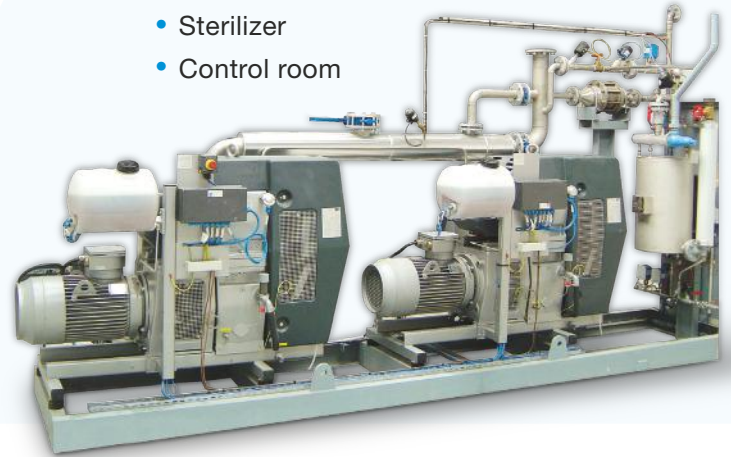


## OPTIONS:

- Vertical doors
- Parametrical release
- Modulating pneumatic valves
- Cooling system for jacket
- Pure steam generator
- Automatic loading and unloading system
- Monitoring system (LEL / PPM)
- Preconditioning cells
- Degassing cells
- Catalytic system / Scrubber
- Spare parts
- Preventive maintenance

## MODULAR DESIGN:

- Gas room
- Vaporizer skid
- Vacuum pump skid
- Sterilizer
- Control room



## RANGE OF PRODUCTS “EOS Models” \* :

	MODELS	N° OF EURO PALLET	CHAMBER WIDTH (mm)	CHAMBER DEPTH (mm)	CHAMBER HEIGHT (mm)
SINGLE LINE	EOS 1x4	4	1.440	3.800	2.100
	EOS 1x5	5		4.700	
	EOS 1x6	6		5.600	
	EOS 1x7	7		6.500	
	EOS 1x8	8		7.400	
	EOS 1x10	10		9.200	
	EOS 1x12	12		11.000	
	EOS 1x16	16		14.600	
DUAL LINE	EOS 2x4	8	2.760	3.800	2.100
	EOS 2x5	10		4.700	
	EOS 2x6	12		5.600	
	EOS 2x7	14		6.500	
	EOS 2x8	16		7.400	
	EOS 2x10	20		9.200	
	EOS 2x12	24		11.000	
	EOS 2x16	32		14.600	

\* Dimensions could be adjusted according customer requirements.