STERIX

STERILIZATION EXPERIENCE

STERILIZATION FOR PROFESSIONALS

STERIX

STERIX
redefines the state of the art in the sterilization sector

The STERIX project stems from the need to reaffirm the value of quality and excellence in the sterilization field and to guarantee the safety of therapies to avoid unexpected economic and legal consequences. The STERIX project contains numerous innovations that elevate the autoclaves performances, safety, reliability and durability.

STERIX is the best mean for sterilizing the most delicate surgical instruments. Thanks to its exclusive heating system the instruments are not exposed to thermal shocks or «over heating» and therefore preserve the original operating features over time.

The STERIX project was developed by Medicare Solutions with a specialized sterilization team.

Medicare is part of an important industrial group located in Northern Italy specialized in mechanics, robotics and electronics.

Thanks to the ISAF group know-how, all the components and all process of development, production and testing are managed inside the company.
This guarantees more quality, more efficiency and lower costs.

STERIX

committed to quality and innovations

STERIX

Highly innovative heating system with low environmental impact

The heating system is the beating heart of every autoclave.
A poor heating system determines poor performances (long times and high consumption) and it generates technical problems that cause costs and inefficiencies.

MediCare Solutions has developed an exclusive heating system that ensures excellent performances, reduced consumption and maximum reliability.

The heating system is developed with three interactive technologies:

- **Integrated adaptive heat**
- **Double steam generator**
- **Air warm-up system**

Integrated adaptive heat
This system is equipped with three independent resistors to heat the lower part and the upper part of the chamber ensuring more precise temperature control.

The resistors are integrated into the stainless-steel chamber with which they form a single and removable body at the same time.

The high power and the adaptive properties of the heating allow the autoclave to work always below the limit.
Thanks to this , the resistances are not subject to deterioration and the heating times are not very much influenced by the type and quantity of load.

Double steam generator
The steam generator allows to inject steam into the chamber and accelerate the sterilization cycle.

STERIX uses a double generator powered by the same heating system of the chamber. This avoids additional consumption and complicated control circuits.

Air warm-up
it allows to heat up the air during the ventilation phase:
It does not involve additional consumption and helps to improve and accelerate the drying phase with the temperature always under control.

Smart drying
Thanks to this drying mode, cycle times are optimized for standard loads with benefits in terms of energy savings and excellent drying results.

STERIX
Sterilization for professionals

The exclusive features of the STERIX adaptive thermoregulation enable to safely sterilize the most delicate surgical instrumentation, while preserving their operating properties and duration.
A badly working turbine not only takes longer to treat, but sometimes induces less precise treatments.

STERIX

Hand pieces sterilization without risk of deterioration

To guarantee the sterilization safety, the EN 13060 standard prescribes some rules.
These include the autoclave's ability to expel all air from the pressure vessel.

The presence of air inside the chamber prevents steam from getting in touch on all surfaces and especially on the more difficult surfaces of the micro-mechanisms and hollow bodies.

To achieve the vacuum levels prescribed by the standard quickly, the STERIX autoclaves are equipped with a very powerful two-cylinder vacuum pumps. 44 lt/min - 0.97 bar.

The power of the pump and the fact of working below the limit allows STERIX to guarantee a longer life and reliability of the pump with a significant cost saving.

A powerful cooling circuit allows the pump to work optimally even in intensive work conditions.

Turbines and micromotors are dynamic instruments made up of delicate cavities and micro-mechanisms.

For safe sterilization of these instruments it is necessary to expel the air and eliminate thermal shocks that cause metal alterations that could compromise the precision, reliability and durability of the instruments themselves.

Simplicity means security

Although the autoclave uses sophisticated technology, its use is simple and intuitive: just select the program and press the Start button. The entire cycle is monitored by the microprocessor and at the end of the cycle the green light turns on to allow the door to be opened.

Thanks to the energy saving plan, STERIX is also equipped with a night cycle. Also in this case the cycle is monitored by the microprocessor. In the morning the operator will find instruments fully sterilized and dry and the autoclave turned off.

Easy to use means safety. The simpler the use the rarer the errors!

STERIX

The perfect balance between power and consumption

Excellent performance
The speed of the cycles and the load capacity determine the concept of performance.
STERIX autoclaves perform very fast cycles with a high and flexible «useful» load capacity.
The possibility of doing many cycles during the day reduces the number of instruments required per day and improves work organization with lower costs.

STERIX has been designed for professional offices that work intensively and need to make numerous cycles during the day.

Energy saving
The power of the heating system and the pump enable to work below the limit even in critical conditions and this means less consumption.

The ability to recover thermal energy for the generator, water preheating and ventilated drying, allow for consumption benefits at zero cost.
The functions of preheating the chamber and the water and the possibility of programming the sterilization during the night (night cycle) allow for further reduction of costs and consumption.

The autoclave is equipped with 2 tanks of 5.5 liters each, easily accessible and washable.
A water hardness measurement system helps prevent limescale from entering the hydraulic circuit causing malfunctions.
The clean water tank is equipped with a pre-heating and degassing system.
Quick couplings on the front and rear enable the loading and the drain of the tanks.

The entire hydraulic circuit is protected by removable and washable stainless-steel filters. These prevent impurities from entering the circuit and causing malfunctions.

Trust your instruments with safe hands

STERIX
because not all class B autoclaves are generated equal

Eco-sustainability
The STERIX project combines excellence, technology, performance and eco-sustainability.
The stainless-steel casings and avoiding the indiscriminate use of plastic express the sensitivity of Medicare to the environment.

Thermal energy recovery technologies (for steam generator and preheating), chamber thermal insulation in ceramic fibre and energy saving programs contribute to the eco-sustainability of the STERIX project.

STERIX

Stainless steel chamber 20 years warranty

The STERIX line presents two models that differ in the capacity of the pressure vessel:
STERIX 18 with 18 liters chamber
STERIX 24 with 24 liters chamber

Both chambers are made of stainless steel made with a mold and without welding.
The absence of welding guarantees smooth surfaces and eliminates risks of failure.

Safety
The innovative design of the chamber, the absence of welding and a certified testing system guarantee maximum safety.

The closing mechanism has been designed to guarantee maximum safety. The four-hinge locking system eliminates the danger of accidental hinge failure.

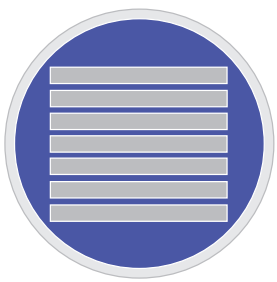
The door closing is manual and precise.
Unlike motorized closures, the door can be easily opened even in the event of a blackout.

The electromagnetic lock prevents accidental opening of the door during the phases of the cycle

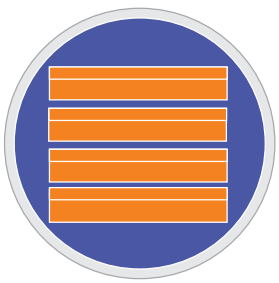
Maximum capacity
Thanks to a larger diameter (260 mm) and a special basket (Modular Tray System) a greater load capacity is obtained compared to many autoclaves of the same category: seven trays, four cassettes or a mixed load.
In this way, more instruments can be sterilized correctly, without excessive overlapping of bags.

Duration
The special chamber design of the rooms allow us to offer a 20 year/100,000 cycle warranty on the chamber in regular use and maintenance conditions.

Modular Trays System (MTS)
The new MTS support system is very innovative not only because it expands the load capacity but because it allows a more flexible use. Thanks to the modularity it is possible to set the height of the shelves to house the trays (up to seven) and / or the cassettes (up to four) or even a mix of both. (eg three trays and two cassettes or four trays and an implantology kit).

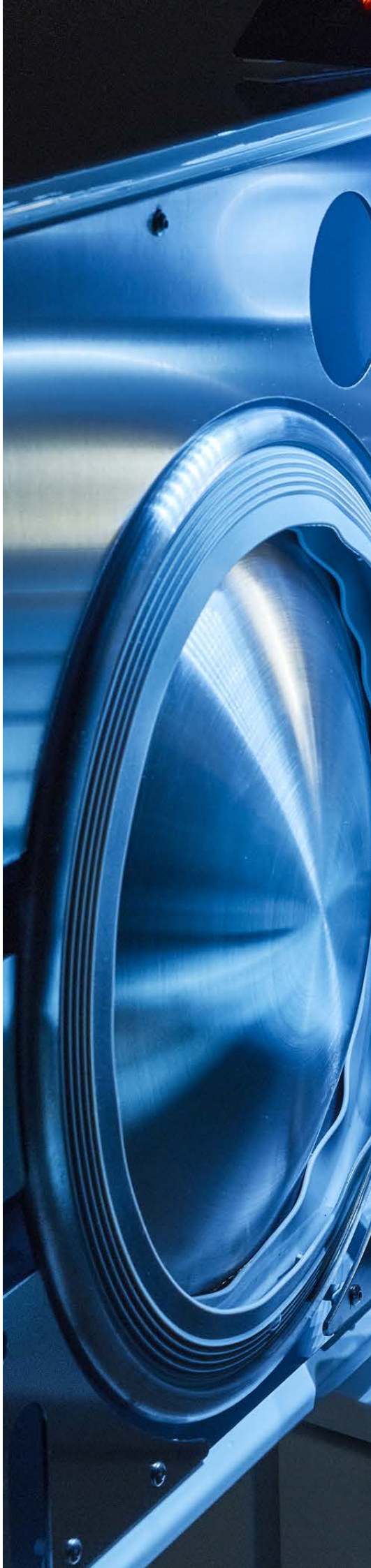


up to 7 trays



up to 4 cassette

mix load



STERIX

Technology in the name of simplicity and security

The control panel consists of a large Full Screen display with Touch buttons.
The large display allows all information to be shown in an exhaustive and orderly manner and this simplifies its use.

The operator can choose between eight sterilization programs and two Test programs.
The cycles are stored by the microprocessor and can be downloaded through the Wi-Fi.

The LED display ensures easy readability from all positions and offers greater guarantees of visibility and durability than LCD displays even in extreme weather conditions.

- Self-diagnosis
- Night cycle
- Cycle counting
- Maintenance/validation recall
- Automatic shutdown

IoT - Internet of Things
Thanks to this technology the autoclave becomes a browser to which you can connect from any device (lab top, PC, tablet, smart phone, etc.).
Thanks to this device it is possible
1) view the history of the autoclave and print the data for traceability
2) check the autoclave remotely
3) carry out diagnostics by remote
4) carry out calibrations
5) update the software

This technology makes memory cards and USB devices obsolete. An external printer socket is available for cycle reports and label printing for envelope tracking purposes.

NFC - Near Field Communication
The NFC system allows the autoclave to recognize the operator and his qualifications.

Thanks to this system, the operator can automatically "sign" the cycles performed, guaranteeing a higher level of responsibility and traceability.

Fast Validation Mode
The autoclaves are equipped with ten programs, but the operator is free to determine which one has to be active and to block those that are not used. This function simplifies the validation processes.

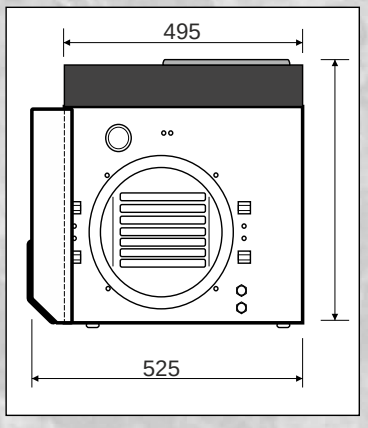
STERIX light - Color code
A white LED light illuminates the working area during loading and unloading operations.
The same Light, turning color, indicates if the surfaces of the autoclave are hot or cold.
During the phases of the cycle the same light changes color to display the "status".

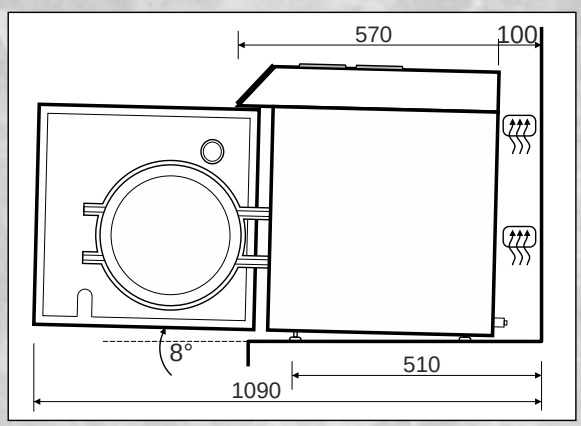
Thanks to this technology the operator with a glance can realize if the autoclave has finished the cycle, if it is working or if there are problems.

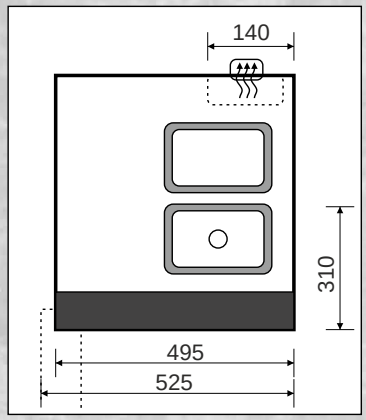
STERIX

	Programs								Test		
Ciclo	1	2	3	4	5	6	7	8	VT	B&D	NOTE
Description	FULL LOAD	FULL LOAD	FAST	SMALL LOAD	CASSETTE	FULL FABRICS	PRION	CUSTOM	VACUUM TEST	B&D	
Type	B	B	N	B	B	B	B	(4)	TEST	TEST	
Temperature °C	134 °C	121 °C	134 °C	134 °C	134 °C	121 °C	134 °C	121-135 °C	Cold	134 °C	
Steriliz. Time.	5′	20′	4′	4′	6′	20′	18′	3′-90′		3,5′	
N. vacuum phases	3	3	2	3	4	4	3	2-3-4	1	3	
Drying Minimum time 18l (24l)	18′ (20′)	22′ (24′)	3 (5′)	8′ (10′)	18′ (20′)	22′ (24′)	18′ (20′)	As in the cycles 3-1 e 6		18′ (20′)	1
Smart Drying Minimum time 18l (24l)	9′ (11′)	14′ (16′)	3 (5′)	7′ (9′)	13′ (15′)	17′ (19′)	9′ (11′)	As in the cycles 3-1 e 6		9′ (11′)	
H_2O consumption 18lt (24l)	540 (700)	540 (700)	340 (440)	440 (570)	780 (1000)	780 (1000)	540 (700)	340-780 (440-1000)		540 (700)	2
Load type	Solid, porous, hollow A and B wrapped (Rif EN868)	Solid, porous, hollow A and B wrapped (Rif EN868)	Solid unwrapped (rif EN13060) par. 10.5	Solid, porous, hollow A and B wrapped (Rif EN868)	Solid, porous, hollow A and B wrapped (Rif EN868)	Solid, porous, hollow A and B wrapped (Rif EN868)	Solid, porous, hollow A and B wrapped (Rif EN868)	Depend by selected parameters	No load	Helix test Bowie & Dick test	
Load max 18lt	4,0kg solid 1,5kg porous	4,0kg solid 1,5kg porous	1,0kg solid	1,0kg solid 0,5kg porous	4,0kg solid 1,5kg porous	4,0kg solid 1,5kg porous	4,0kg solid 1,5kg porous	Depend by parameters			3
Load max 24lt	6,0kg solid 2,5kg porous	6,0kg solid 2,5kg porous	1,5kg solid	1,5kg solid 0,8kg porous	6,0kg solid 2,5kg porous	6,0kg solid 2,5kg porous	6,0kg solid 2,5kg porous	Depend by parameters			3
Functional Test	Helix test EN13060 par. 10.6	Helix test EN13060 par. 10.6		Helix test EN13060 par. 10.6	Helix test EN13060 par. 10.6	Helix test EN13060 par. 10.6	Helix test EN13060 par. 10.6	To be set up by the user		EN867-5	
Note								4			

Note:
1)It may be shorter if the SMART DRY function is settled; 2) It can be greater if the load is very absorbent 3) Solid /porous parameters determined according to the EN13060 standard procedure, the actual load may differ depending on his shape and packaging, in case of mixed load consider the worst condition. 4) The CUSTOM cycle must be qualified and verified by the person responsible for the process as the combination of parameters has not been previously verified.







« ...the best way to predict he future is to invent it»
Alan Kay

Technical sheet	STERIX 18	STERIX 24
Chamber capacity	18 lt	24 lt
Chamber dimension	Ø 260 x D 365 mm	Ø 260 x D 465 mm
External dimensions	L 495 x H 545 x D 540 mm	
Table depth	540 mm	
Power supply	230 V - 50/60 Hz	
Electric consumption	2800 W	
Net weight	59 kg	61 kg
Rough weight	63 kg	65 kg
Sterilization time (drying included)	30-35 min	35-40 min
Heating system	Adaptive Heat	
Steam generator	Double Steam Generator	
Vacuum pump	44 lt/min > 0,97 bar	
Reservoirs	2 reservoirs 5,5 lt	
Water quality control	sì	
Ciclo notte	sì	
IoT	sì	
NFC	sì	
Warranty	2 years - 20 years for the chamber	
Type ref EN13060	B	

* The total cycle times vary depending on the program, the load, the maintenance status, the supply voltage and the preheating condition. The time indicated refers to the standard cycle 1 with a machine preheated with a typical load.

Pictures, descriptions, measurements and technical data shown in this catalog have to be considered as purely indicative. While maintaining the basic characteristics of the products, the manufacturer reserves the right to make modifications at any time with the sole aim of improvement

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