Tecno Med ITALIA Group®

Sterilization Focus

THE PROCESS, THE TRACEABILITY, THE WORKING ENVIRONMENT

Sterilization Focus

THE PROCESS
THE TRACEABILITY
THE WORKING ENVIRONMENT

The sterilization process inside the dental office is carried out by qualified and trained assistants.
As everybody knows, it's very important that a clear and synthetic written procedure of the individual activities exists and that it can be easily consulted in the working place.
The set of these individual activities, included under operational protocols and distinguished in execution times and physical spaces, represents the methods of sterilization.
With the goal in its mind to facilitate your activity, Tecnomed decided to provide you and your colleagues with this guide-catalogue; it represents a real vademecum of the process of sterilization in the dental field.
At the same time Tecnomed introduces you to the new Handy Surgery project for the sterilization room.
It consists of equipment and furniture designed specifically to optimize the timing of the execution of the sterilization process.
This guide will allow you to make your work more efficient by preparing the entire dental surgery team clearly and unequivocally.

Good luck with your work!

MAIN REFERENCE STANDARDS

- ITALIAN STANDARDS "Steam sterilized reusable Medical device development and control guide" UNI/TR 11408 – March 2011 (Italian National Unification Institute)
- Guidelines on sterilization activities as collective protection from biological agents for the operator in healthcare facilities – May 2010 (Legislative Decree n. 81/2008)
- Legislative Decree dated April the 9th 2008 n. 81 – concerning Protection of Health and safety in the workplace, in particular occupational hygiene and safety – Tit. X art. 271-281
- Legislative Decree dated February the 24th, 1997 n. 46 "Implementation of directive 93/42/CEE concerning Medical devices"
- President of the Republic decree dated January the 14th, 1997 n. 37 "Approval to Regions and autonomous provinces of the Act of Address on structural, Technological and organizational minimum requirements for the exercise of health activities by public and private facilities"
- Ministerial Decree dated September the 28th, 1990 "Protection rules against HIV professional contagion in public and private healthcare facilities"

Sterilization Focus By Tecnomed Italia

For 30 years Tecnomed Italia has been specialized in producing and supplying dental equipment; in order to respond to the continuous demand for technological innovations and to make the study efficient in 360°, Tecnomed created a project also for the sterilization room.

Sterilization procedures play a key role in dental practice activities.
The goal of this activity is, in fact, the destruction of every microorganism, both in the vegetative or spore phase, that can be present on the instruments after their daily use.
This result can only be achieved through repetitive, documentable, standardized physical and/or chemical processes. Sterilization activity is of the utmost importance as the risk of infection, due to exposure and contact with contaminated material can be very high when the procedure is not performed properly.
In accordance with safety standards and in compliance with the principle of "Technological feasibility", every professional must take all the necessary precautions to avoid causing injuries to third parties during the course of their duties; this includes using the more advanced equipment that the best technology of the moment provides him, suitable to ensure the highest safety standards.

The Handy Surgery sterilization line by Tecnomed Italia is designed to ensure maximum professionalism and cleanliness.

The set of furniture made of stainless steel is synonymous with cleaning, linearity and robustness and it's created to bring together all the equipment and tools needed to carry out the sterilization process without hindrance.

A certain number of **high-performance and technological equipment** – essential to perform all the steps of the process – also belong to this sterilization line.
For the production of exclusive equipment, Tecnomed relies on Historic Companies in the sterilization field.

Handy Surgery is positioned as a top-of-the-range product; it's mainly suitable for dental surgery-oriented clinics but it's also widely used in standard dental offices that require maximum safety in the field of sterilization.
We continue our journey into the world of sterilization by analyzing all the steps of the process as well as all the equipment we propose to fully perform it at its best.

STERILIZATION PROCESS

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Sterilization Focus

PRELIMINARY OPERATIONS

When running most of the operating protocols, the operator must wear the specific individual protective equipment from biological agents.
The fundamental feature of any individual protection device is to **protect the operator** against **health and safety risks**.
The most commonly used personal protective equipment are: gloves, various protective clothing and devices protecting airways and eyes (glasses, visors, masks, and so on).

As the aerosol resulting from the ultrasonic **washing operations can contaminate the work surfaces**, their very careful disinfection is necessary as well as ensuring the adequate ventilation of the environments.
It's highly advisable to carry out the cleaning activities before starting any sterilization process and before extracting the sterilized instruments from the autoclave.

Disinfections for large surfaces
GREEN&CLEAN SD

Alcohol disinfectant and spraying for alcohol-resistant surfaces of medical products (such as tables, wall shelves or cases).

Features

- Quick action
- Ready for use disinfectant solution
- Prolonged effect preventing resettlement of germs in the air
- Formaldehyde-free
- No-drop sprayer
- Included into vah lists
- Ce 0044

Code	Products
60030001	Sprayer + 5 bags - 750 ml
60030002	6 bags – 750 ml (SD refilling 1)
60030003	5 lt. tank (SD refilling 2)
40200005	empty sprayer

SAFETY DATA SHEET

Application

Preliminary operations
HAND WASH CLEANERS

Microorganisms are part of our daily lives. We generally do not pay much attention to the infection risks referable to them. But when we are inside the sterilization room it's a whole other story.
The risk to catch an infection in a dental surgery is really much higher.
The large number of treated patients as well as the distinctive feature of the work, call for an accurate hygiene; on the other side, cleansing and disinfecting your hands so frequently can make the skin dry and chapped.
Through the chaps, microorganisms can reach the deeper skin's layers where they start to reproduce. For this reason, taking care of the hands' skin is as important as their accurate disinfection.
GREEN&CLEAN BY METASYS hand line has been created specifically for sensitive skin; while offering an effective protection against infection, it contains rich healing substances suitable to avoid dry skin.
The Ce certification as well as the compliance with the Vah list are the guarantee of the high-quality standard of these products.

HYGIENIC DISINFECTION IN ACCORDANCE WITH CEN/EN 150	**BEFORE AND AFTER** NON-SURGERY TREATMENTS WORKSPACE PREPARATION AND MAINTENANCE BREAKS / USE OF TOILETS	**HANDS DISINFECTION** KEEP YOUR HANDS MOIST FOR 30 SECONDS – PERFORM EACH STEP 1-6 FOR 5 SECONDS	KEEP YOUR HANDS MOIST TO YOUR WRISTS DURING THE WHOLE ACTION TIME	WHEN NEEDED, USE A BIGGER QUANTITY OF DISINFECTANT – MINIMUM 3ML.
CHEMICAL DISINFECTION IN ACCORDANCE WITH CEN/EN 12791	IN CASE OF SURGERIES BEFORE WEARING GLOVES	**HANDS AND FOREARMS DISINFECTION** KEEP THEM MOIST FOR 3 MINUTES. PERFORM EACH STEP 1-6 FOR 5 SECONDS.	KEEP YOUR HANDS AND FOREARMS MOIST DURING THE WHOLE ACTION TIME.	WHEN NEEDED, USE A BIGGER QUANTITY OF DISINFECTANT – MINIMUM 10 ML.

Hygienic hand cleaning
GREEN&CLEAN HL

Nourishing hand wash lotion with broad antimicrobial action.
With our GREEN&CLEAN hand product line - wash lotions, disinfectant and hand cream - we offer you a simple solution to protect your staff and patients from dangerous infectious diseases while ensuring gentle skin care with nourishing ingredients.

Peculiarity
- broad antiseptic action
- alkali-free, pH-neutral
- supports the natural acid protection of the skin
- prevents skin irritations
- with care substance allantoin

Code	Product
60030051	Intro kit, 5 x 750 ml + dispensing bottle
60030052	Refi II kit 1, 6 x 750 ml

Application

1. Palm on palm

2. Palm on palm with open fingers

3. Palm on back of the other hand with open fingers

4. Outer side of the fingers on the palm of the other hand

5. Rotate your thumb in the palm of your other hand

6. Rotate your fingertips in the palm of your other hand

01
COLLECTION AND DECONTAMINATION

The first fundamental step to be put in place is the so-called decontamination process not to be confused with disinfection.
It is based on the use of chemical methods in order to inactivate the pathogenic microorganisms present on the surface of the instruments.
This procedure must be performed before handing then immediately after finishing the medical intervention.
It is an operation that precedes the actual cleansing of the instruments used and has the main purpose of removing most of the organic material on their surface.
It is important to point out that the decontamination phase always precedes the cleaning and sterilization ones.

The decontamination procedure involves the total immersion of the instruments in a wide-spectrum disinfectant solution in order to remove pathogenic microorganisms present on the instruments.
It must be carried out with special care in the presence of blood or other organic substances in order to limit possible risks of cross-contamination in subsequent operations.

Once this process is finished, limiting virtually zero contamination of areas of passage of the clinic, it will be possible to transport the instruments to the sterilization room.

Preparatory Instruments cleaning
GREEN&CLEAN ID N

Highly active concentrate for preparatory disinfectant cleanliness of both intrusive and not intrusive instruments.

Code	Product
60030033	4 X 500 ml. Bottles + dispenser
60030034	1 X 5 lt. Tank
40200003	Dispenser for GREEN&CLEAN ID N
40200004	5 Lt. Tap tank

Features

- Outstanding cleansing action
- Suitable for flexible and rigid instruments, for thermostable and not thermostable instruments and for endoscopes
- 5 lt. of concentrate diluted at 1% generate 500 lt. of solution
- Ready to use
- Protects tools for use in ultrasonic tanks and by dive
- Aldehydes and phenols - free
- Recommended by endoscope manufacturer Karl Storz GMBH Tuttlingen (Germany)
- Authorized by NTI-Kahla (Rotary Dental Instruments)
- Included in the VAH lists
- Duration of the solution: 1 week
- CEE 0044

Doses table

Liter	1,0%	2,0%	7,5%
1 L	10 ml	20 ml	75 ml
2 L	20 ml	40 ml	150 ml
3 L	30 ml	60 ml	225 ml
4 L	40 ml	80 ml	300 ml
5 L	50 ml	100 ml	375 ml

Broad-spectrum / Timing of action / Solution	5 min	15 min	30 min	60 min
Bactericidal	1,5%	0,5%	0,25%	0,1%
Tubercolosicidal	7,5%	2,0%	2,0%	1,0%
Fungicidal (C.Albicans)	1,5%	0,5%	0,25%	0,1%
Antiviral to a limited degree (HBV,HIV,HCV,HSV-I)			2,0%	

Combination of modern active ingredients

Quaternary ammonium compounds, alkylamine, corrosion inhibitor

SAFETY DATA SHEET

Medical reports

Medical reports of Prof. Doctor R. Schubert - Frankfurt
Prof. Doctor E. Marth, Graz
Doctor J. Steinmann, Bremen

Application

1. Dose and prepare the tray (concentrate + water)

2. Remove dirt from tools

3. Immerse the tools in the solution

4. Cover the tray and wait for the action time

5. Rinse the tools

Tool preparatory cleaning
DECONTAMINATION TRAYS

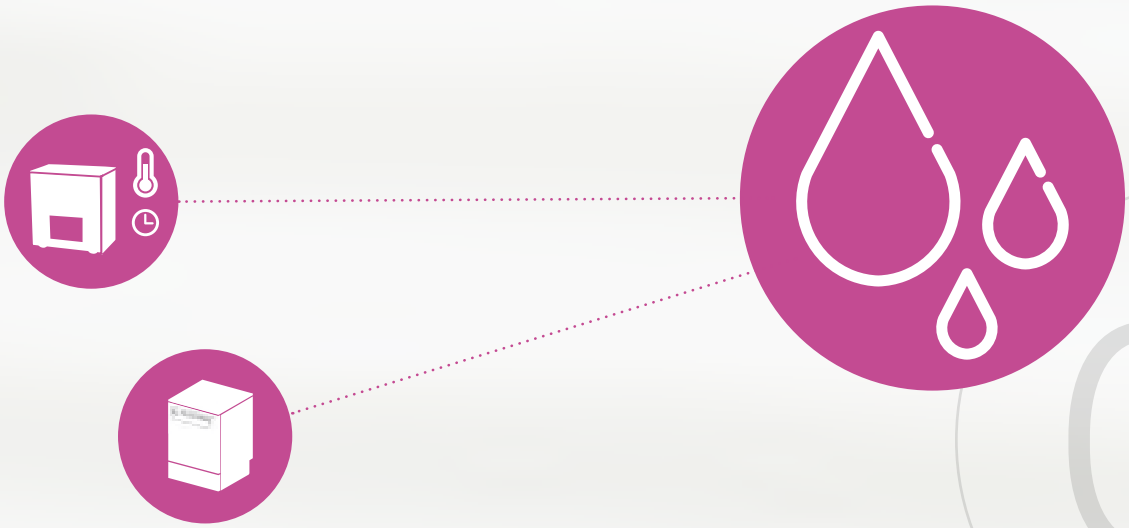
The trays and the container for the cutters by METASYS guarantee a perfect decontamination of all the instruments.

Code	Product
40200008	Decontamination tray 4lt. With lid and basket
40200015	Decontamination tray 1,25 lt. With lid and basket
40200013	Decontamination container for cutters 200 ml with lid and basket

02 CLEANSING AND DISINFECTION

To perform a **proper sterilization process**, the tools must be perfectly clean. The entire cleaning process is intended to remove dirt from the tools.
Even the smallest residues present on the tool, in fact, can affect the sterilization because of lack of contact steam/microorganism.

The instruments must then be manually or mechanically washed; in any case the operator must wear the appropriate personal protective equipment.



Mechanical washing preferable to manual washing to avoid as much as possible risks of infection can be carried out using ultrasonic devices or thermal disinfectors. These machines allow the physical, chemical and thermal disintegration of bacterial contaminants.
Ultrasonic bath cleaning is essential to clean the instruments even in their hard-to-reach parts and to remove particularly resistant dirt.
Thanks to the possibility to use specific solutions that also carry out a disinfectant action, the ultrasonic tub allows both general cleaning and the elimination of the most resistant residues such as fats and cements.
It's possible to use products that are active in ultrasonic tub at temperatures between 30°C and 40°C, in order to avoid precipitation of proteins that occurs with temperatures above 45°C.
At the end of the ultrasonic bath washing, a generous rinse with running water should be carried out to remove any residue of detergent; after that an accurate drying should follow using paper or canvas cloths that do not release fibers.

Alternatively, for avoiding any operation and manipulation of tools, especially sharp or pointed ones, you can use an automatic drying system or simply a compressed air gun.
The cleaning and drying phases can also be carried out through the use of a single equipment: the thermal disinfector
They are state-of –the-art equipment that can carry out all cleaning, disinfection, rinsing and drying steps.
Using the **thermal disinfector**, the disinfection process takes place through a thermal disintegration of bacterial contaminants, and not chemical as in the case with the ultrasonic tank.
Thermal process is certainly more cost-effective for two reasons: it helps to increase the longevity of the instruments while reducing the working time of the staff.

Mechanical ultrasonic washing or Thermal disinfection
COMPARISON

Let's find out together the possible solutions for proper cleaning and disinfection.

MECHANICAL ULTRASONIC WASHING

- Heavy time consuming
- Increased risk of contamination
- Increased consumption of water, energy and detergent
- Non-standardized washing and cleaning
- Unverifiable disinfection success
- Difficulty in treating hollow, thin lumened instruments
- Increased risk of occupational accidents and illness
- Increased pollution due to the introduction of more harmful substances
- Less time for operators to carry out qualified and control tasks
- Unrepeatable and unvalidatable procedures
- Higher disposal costs

ULTRASONIC + RINSE + DRYING + HANDPIECE DISINFECTION

> 1 > 2 > 3 > 4

THERMAL DISINFECTORS

- Automatic washing
- Medical devices in the II b class treated correctly in compliance with the standard 93/42/CE and EN15883
- Total solution for the entire Medical and dental instrumentation
- Safe treatment even for delicate and expensive tools
- Accurate internal and external cleaning
- Efficient employ of staff
- Constant compliance with hygiene standards in the treatment of instruments
- Reducing the risk of cross-contamination
- Minimizing the risk of occupational accidents or illnesses

DISINFECTION (HANDPIECES INCLUDED) / RINSE / DRYING

> ALL IN ONE

ACTIVITY	MECHANICAL	THERMAL DISINFECTOR
Principle	Cavitation	Mechanical Action
Infectious risk to the operator	Medium	Low
Regulation	UNI EN15883 HTM 203 +HTM01-05	UNI EN 15883-2006
Automatic decontamination	No	Yes
Washing quality	Medium	High
Dynamic handpiece disinfection	No	Yes
Environmental contamination	Low - Medium	Low
Checks/validation	Yes	Yes
Costs for disinfectant, water and Disposal	High	Low
Instruments damage	+++	+/-
Labor cost	High	Low
Equipment costs	Low - Medium	Low

Mechanical washing
ULTRASONIC CLEANER DIGICLEAN

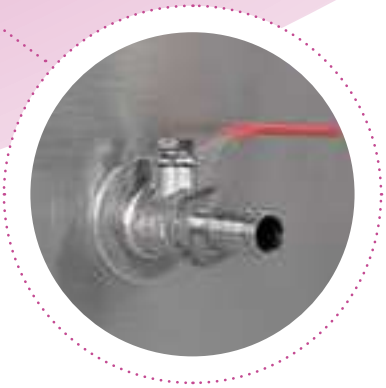
Ultrasonic washing is the most technologically advanced and cost-effective means of cleaning.
Our tanks Digiclean generate an high ultrasonic power that associated with a disinfectant cleanser will ensure you a quick and effective cleaning action by removing dirt even in the hard-to-access parts.
Made of non-scratch stainless steel, it proves resistant over time against wear-and-tear corrosive agents.
An electronic generator operated by a microprocessor optimizes power performance while a display control panel allows the setting and the viewing of vibration times and liquid temperature values.

The intuitive control panel allows you to adjust the time from 1 to 99 minutes, the temperature from 0°C to 80°C and the frequency of ultrasounds.

FEATURES	Code CLEA3L	Code CLEA5L	Code CLEA10L
Capacity	3 liters	5 liters	10 liters
Transducers	2	2	4
Swinging power	120	120	240
Swinging frequency	40KHZ	40KHZ	40KHZ
Drain tap		•	•
Digital timer	•	•	•
Heating	•	•	•
Large/medium basket	•	•	•
Small basket		•	•
Cover	•	•	•
Cups support	Opt.	Opt.	Opt.
Cups	Opt.	Opt.	Opt.
Power	230 vac	230 vac	230 vac
Weight gr.	4 Kg	5 Kg	10 Kg
External measures lxdxl mm	252 x 150 x 271	252 x 150 x 271	312 x 250 x 337
Warranty	24 months	24 months	24 months

Our tanks are entirely stainless steel material that makes them exceptionally durable over time.

The novelty of this line are the Pyrex glasses for indirect washing with particularly aggressive solutions (optional).



The 5 liters and 10 liters models are equipped with an exhaust washing liquid faucet so you can drain water quickly and easily.

Optional features and accessories

Code CLA03
Pyrex glass - 600ml
Equipped with o-ring for support
(diameter 100mm height 125mm)

Code CLA10L.2
Large basket stainless steel for CLEA10L
(290 x 220 x 130 mm)

Code CLA02
Medium baske in stainless steel for CLEA3L and CLEA5L (200 x 110 x 100 mm)

Code CLA02P
Small basket in stainless steel
(diameter 80 mm, height 65 mm).

Code CLA04
Supports for pyrex glasses - nr. 2 for CLEA3L and CLEA5L
(Thickness 8 mm, 262x162 mm).

Code CLA10L.6
Supports for pyrex glasses - nr. 4 for CLEA10L
(Thickness 8 mm, 326 x 264 mm).

Solutions for ultrasonic cleaner GREEN&CLEAN ID N

Highly active concentrate for preparatory disinfectant cleanliness of both invasive and not-invasive tools

Code	Product
60030033	4x500 ml bottles + dispenser
60030034	1 x 5 liters tank
40200003	Dispenser for GREEN&CLEAN ID N
40200004	Tap 5 liters tank

Features

- Outstanding cleansing action
- Suitable for Flexible and rigid instruments, for thermostable and not thermostable instruments and for endoscopes
- 5 liters of concentrate diluited at 1%generate 500 liters of solution
- Ready for use
- Protects tools by avoiding corrosion
- Suitable both for use in ultrasonic tanks and by dive
- Aldehydes and phenols free
- Recommended by endoscope manufacturer Karl Storz Gmbh Tuttlingen (Germany)
- Authorized by NTI-Kahla (Rotary Dental Instruments)
- Included in the VAH lists
- Solution duration: 1 week
- CE 0044

Doses Table

Liter	1,0%	2,0%	7,5%
1 L	10 ml	20 ml	75 ml
2 L	20 ml	40 ml	150 ml
3 L	30 ml	60 ml	225 ml
4 L	40 ml	80 ml	300 ml
5 L	50 ml	100 ml	375 ml

GREEN & CLEAN ID N METASYS.
High-effective concentrate free of aldehydes and phenols protects tools by avoiding corrosion
Simple use:

- dilute the solution to 1%
- Set the temperature of the tank to 0°C
- Set the time to 15 minutes

Combination of modern active ingredients

Quaternary ammonium compounds, alchilamina, corrosion inhibitor

Medical reports

Medical Reports of Prof.Doct. R. Schubert – Frankfurt
Prof. Doct. E.Marth Graz
Doct. J.Steinmann, Bremen

SAFETY DATA SHEET

INTERNAL DISINFECTION OF ROTATING INSTRUMENTS

Specific techniques should be used for disinfection of rotating instruments such as turbines and contra-angles, as the process cannot be carried out in the ultrasonic tank.
First of all, it must be made clear that it is essential to disinfect the instruments internally and not only in the outside of the handpieces. In absence of a thermal washer disinfector to carry out internal disinfection of the rotating instruments, suitable adapters should be used in such a way that the disinfectant liquids can execute their action in all the internal channels of the instrument.
In particular the cooling water channel of the handpieces is subject to the formation of the biofilm.The first sign of the presence of biofilm inside the channel is absolutely the leakage of impurities of the spray duct.
In addition, during the sterilization process in autoclaves, the biofilm layers and may occlude the conduit itself. In this situation it is necessary to require technical assistance to free the spray channel of the handpiece infected from biofilm.
Not suitable products for disinfection of the handpieces can also cause a rupture of the rotating instruments: by penetrating from the clenches the not appropriate disinfectant will go to channel into the rotor causing the inevitable rupture. For accurate and correct internal disinfection of your handpieces Tecnomed recommends the use of GREEN&CLEAN IK by METASYS, disinfectant for decontamination of water pipes and sprayed air of handpieces, contra-angles and turbines. Fixed adapters provide safety and convenience.

Disinfection of rotating instruments
GREEN&CLEAN IK

Code	Product
60030182	n. 2 – 200 ml spray bottles for contra-angles*
60030183	n.2 – 200 ml spray bottles for turbine W&H*
60030184	n.2 – 200 ml spray bottles for turbine Bien Air*
60030185	n. 2 – 200 ml spray bottles for turbine KaVo*
60030186	n. 2 – 200 ml spray bottles for turbine Sirona*
60030187	n. 2 – 200 ml spray bottles for turbine Castellini*
60030188	n.2 – 200 ml spray bottles for turbine NSK*
60030189	n. 2 – 200 ml spray bottles Sirona T1 Classic*

*adapters included

Spectre Of action / Action time / Solution	
Bactericidal	2 min
Tubercolocida	2 min
Fungicida (C.Albicans)	2 min
Antiviral to a limited degree (HBV/HIV/HCV/ HSV-1)	15 sec


Grafting the handpiece to the adapter


Dispense for about 5 seconds the liquid; it has to get out of the spray holes of the handpiece. Clean the outside of the instrument from the excess product.


Dry the handpiece with a dry towel.

Combination of modern active principles
Alchool, quaternary ammonium compounds.

SAFETY DATA SHEET


2:1
SilkLine
SilkLine
ivory

03
CONTROL AND MAINTENANCE

At the end of the disinfection phase, all the material that needs to be sterilized must be cleaned, intact and functioning.
In particular, rotating instruments such as turbines and contra-angles also need special maintenance and must therefore be lubricated with special water-soluble products as specified by the manufacturer.

Lubricant oil
SILK OIL BY IVORY DENT

Tecnomed Italia recommend to use the universal lubricant oil Silk oil by Ivory Dent. The Ivory lubrication line has become special thanks to an insurmountable degreasing and cleaning capacity. No overheating of the dynamic parts, minus deposits of impurity, less consumption, less expenses, plus protection for a longer duration, no thermal stress or oxidation, lower expenses for technical assistance are just some of the benefits of Ivory oil .

SAFETY DATA SHEET

Screw the adaptor suitable for the handpiece to be lubricate in the dispenser of the can.

Grafting the handpiece into the appropriate adapter. Dispense for about 5 seconds both in the attachment and in the squeeze cutter the oil that comes out of the handpiece must be transparent

Code	Product
OL101S	Universal lubricant oil Ivory 500ML

Handpieces outer surface
GREEN&CLEAN WD

For the rapid disinfection of the outer surface of handpieces and turbines, provided you do not have the thermodisinfector with instruments basket, Tecnomed recommends you to use the practical disinfectant alcohol-based, ready for use, wipes GREEN&CLEAN WD by METASYS.

Features

- Ready to use in practical rechargeable sanitial lock dispenser with safety seal
- Anti-tear fabric
- Fast-acting
- Prolonged effect preventing resettlement of germs in the air
- Formaldehyde-free
- Spectre of action: bactericidal, tubercolosicidal, fungicidal (C.Albicans), antiviral to a limited degree (HBV/HIV/HCV,HSV-I)

SAFETY DATA SHEET

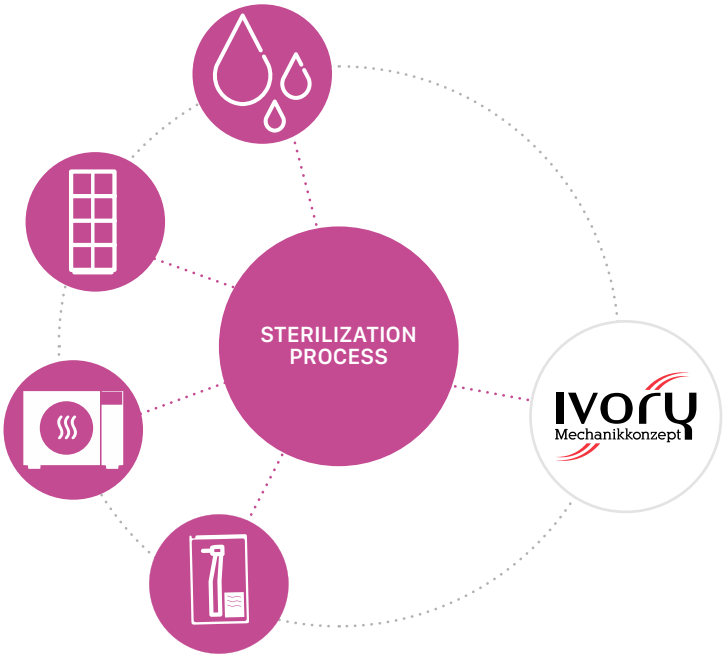
Code	Product
60030012	Surfaces disinfectant WD Refilling (6 bags, 120 wipes each)

Online
IVORY DENT ONLINE SERVICES

Ivory, in addition to the high-quality handpieces production has focused on the training of his customers. They have in fact created a real on line channel dedicated to the operators so that they can be instructed on how to properly carry out the maintenance of the handpieces avoiding errors and preserving their functionality over time. The maintenance video Ivory can then be viewed at any time by the operators during the maintenance phase; the line of furniture for sterilization Handy Surgery is equipped with a practical tablet that makes it easy and immediate to view maintenance videos. They can be viewed alternatively by scanning the relevant QR- Code

DOWNLOAD

Ivory Maintenance Process

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21/03/2019
STEAM
150MM

04
PACKAGING AND TRACEABILITY

Packaging
THERMOSEALING

Proper packaging is required after sterilization to ensure that the devices maintain this condition and are protected from contamination for some time.
The instrument, after being decontaminated, washed, cleansed, disinfected, dried and checked, once the necessary maintenance operations are carried out, is inserted into a specific envelope that will have to be sealed in order to maintain the sterile tool over time.
The choice of materials, the most appropriate for the correct sterile storage of instruments is crucial. For the most common sterilization method, made by means of the autoclave, tools are usually packaged using envelopes or rolls of paper/polypropylene medical grade. To properly close the non- self sealing envelopes or rolls in paper/polypropylene, special thermal welding machines can be used; this equipment ensure the right thickness of the sealing and its best resistance. The width of the seal should not be less than 6 mm. The size of the envelope must be such that the material contained does not take up more than ¾ of the total volume.
The regulations on packaging for sterilized medical devices are indicated by two sets of main rules: UNI EN 868 and UNI EN ISO 11607.
The regulatory framework defines specific criteria that must be met in order to ensure the material's ability to act as a microbial barrier; it's also stressed that the adequacy of a packaging system is not only in its features but also in the way each package is sealed so that it can ensure infertility conditions. The packaging process should not be underestimated but it is of paramount importance. The sterile preservation of the instruments can only be guaranteed by the correct sealing. Not uniform sealing or sealing with burns do not ensure infertility in the time. In this case the instruments must absolutely be re-packaged. In order to make sure that the welding machine is working properly, it's appropriate to perform periodic control welds. For this purpose specific tests are available; they highlight both the thickness of the sealing and any not- welded points, which would invalidate the sterile storage.

The aluminum bar, at sight, is indestructible and through the internal resistance you can have a constant temperature. The smooth surface allows easy cleaning of the machine increasing safety for operators and patients.

The appropriate knob allows you to adjust the welding Temperature up to 200°C depending on the type of paper you are using whether Smooth or corrugated.

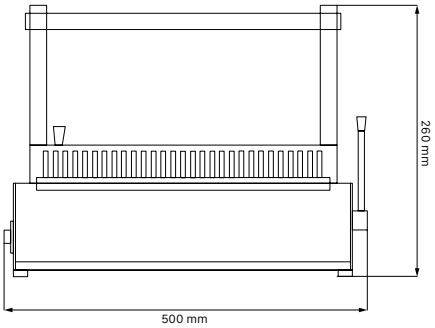
TERMOSEAL 300

Thermoseal 300 is the electronic thermal sealing machine in continuous cycle and constant temperature by Tecnomed Italia and it is characterized by a clean line and compact line, synonymous with robustness, reliability and ease of use. The lever mechanism for welding is placed sideways; at the slightest pressure you can effortlessly obtain perfect seals for the packing of the instruments. The built-in cutter allows you to cut the envelopes from a roll during the operation sealing easily and flexibly
Thermoseal 300 was conceived using the technology of current heating through a filament that becomes almost incandescent. This technique can lead to a high degree of wear and the upper protective canvas could burn, hole or tear. Thermoseal 300 is revolutionary: the heating of the welding element (an indestructible aluminum bar) is done through internal resistance that always maintains a constant temperature and adjustable by the operator. This technology allows to perform thermal welding at repetition without wasting time and making the reliability of your seal up to three times higher than the older generation ones. The special knob allows you to adjust the welding temperature up to 200°C based on the type of paper you are using (smooth or corrugated). The on sight aluminum bar is indestructible and through internal resistance you can have a constant temperature. The smooth surface allows easy cleaning increasing safety for operators and for the patient. With Thermoseal 300 the packaging operation are safe and fast: just lower with one hand the welding lever and with the other hand slide the cutting lever. The 15mm seal ensures a risk-free airtight closure.

Supplied

- Thermal sealing machine
- n.2 Support rods
- n.1 Roll support rod
- Power cable

Features	Code SEA300
Weld width	15 mm
Weld length	360 mm
Roll support rod length	375 mm
Power	450 watt
Power supply	230 vac
Measurements (LxDxH)	500X260X200/260h
Weight	6.5 Kg
Warranty (months)	24
Certifications	CE



With Thermoseal 300 the packaging operation are safe and fast: just lower with one hand the welding lever and with the other hand slide the cutting lever. The 15mm seal ensures a risk-free airtight closure.

Packaging
ROLLS FOR THERMAL SEALING

Tecnomed Italia offers a range of sterilization rolls that ensure a high level of protection against bacteria.

High quality materials: the rolls are composed of Medical grade paper from 60 to 70 g/square meter and a reinforced laminated film that guarantee an excellent opening phase without lacerations of the plastic material or possible release of paper fibers.

Triple welding line: the constant sealing during sterilization is ensured by the triple welding line.

Appropriate packaging: the rolls are individually packaged in protective plastic film and placed into carton boxes. This ensures dust protection even after the carton box is opened

Class 1 Process indicators (UNI EN ISO 11140-1): Indicators change color when sterilization has occurred

Compliant with the rules: all materials comply with international standards.

Features

- Transparent film rolled out of blue color that allows easy identification of the content.
- Reinforced film to avoid lacerations of plastic during opening
- 60/70 gsq Medical grade paper of superior quality.
- The triple welding line is characterized by resistance and spacing both ensuring constant tightness during sterilization process as well as excellent peelable during opening without release of paper fibers or lacerations.
- Process indicators for steam and EO
- Non-toxic water inks certified ISO 11140
- All materials are in compliance with international standards
- Indication of opening direction
- Validated production process

The rolls are individually packaged in protective plastic film and placed into carton boxes. This ensures dust protection even after the carton box is opened.
Suitable for all sealing machines.

Code	Height cm	Length mt	Quantity in packaging
DEA4.09	5	200	8
DEA4.10	7,5	200	8
DEA4.11	10	200	4
DEA4.12	15	200	4

Printing takes place on the line outside the space useful for sterilization along welding on the back paper side in order to avoid migrating ink on the product.

Complying with UNI EN 868:2009, UNI EN ISO 11607:2009 standards "Packaging for medical devices terminally sterilized".

Traceability
TRACEABILITY

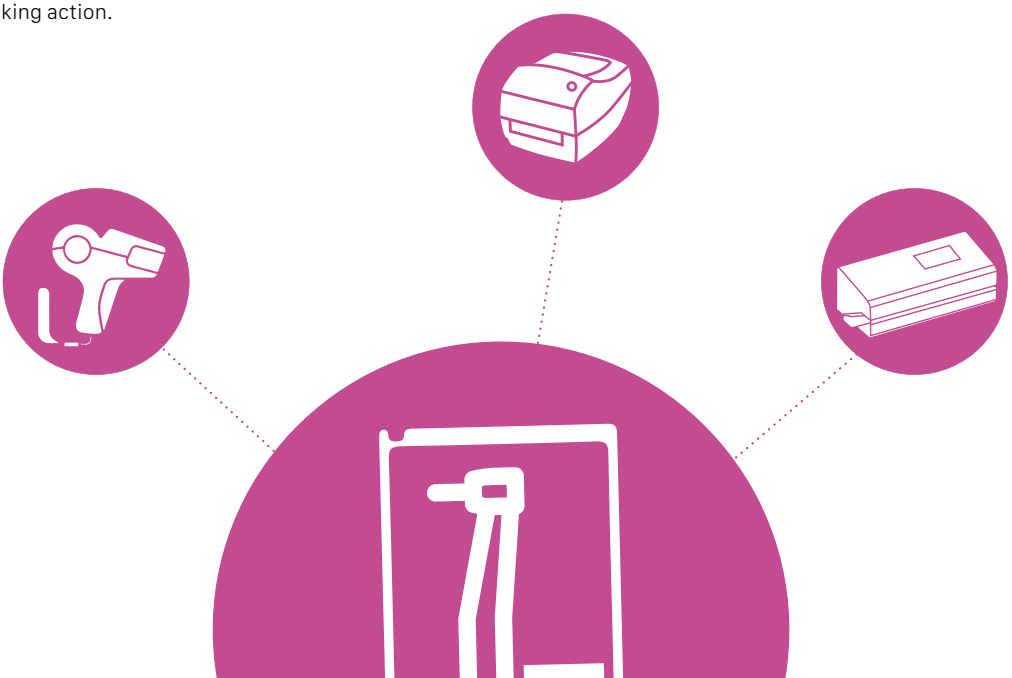
Traceability: This action means that part of the process aimed at keeping track of the instruments. Traceability, then, completes the tracking process.

Tracking: it is the process that goes back into the production chain of a product in order to search for a specific event or action.

Traceability process, as indicated by the sterilization guidelines (D.Lgs 81/2008) provides that the instrument dedicated to surgery is accompanied by some essential information related to the sterilization process shown on the packaging.

STERILIZATION AND PACKAGING DATE	**PRESERVATION PERIOD EXPIRATION DATE**	**STERILIZATION LOT** USUALLY IT'S REPORTED THE NUMBER OF THE AUTOCLAVE'S STERILIZATION CYCLE.	**AUTOCLAVE OR OPERATOR NR.** EACH EMPLOYEE CAN HAVE HIS OWN REFERENCE CODE. AS AN ALTERNATIVE, IN THE CASE OF MULTIPLE AUTOCLAVES, IT CAN BE INDICATED THE REFERENCE NUMBER OF ONE OF THEM	**PROCESS INDICATOR** TO SHOW THAT THE PACKAGE HAS BEEN SUBJECTED TO THE STERILIZATION PROCESS.

Above data can be recorded on labels printed with a label marker. Each label has a double adhesive support to be able to apply it on the envelope before sterilization and storage. When the instrument is used, the top label is detached and then glued on the patient sheet. This operation allows to show that the instrument used on the patient has been treated in the sterilization cycle corresponding to the lot number. However, it is worth pointing out that the sterilization process does not stop only at the successful sterilization in autoclave. It is, in fact, defined as a "special process" as the result cannot be verified by subsequent test on the product.
With this in mind, the complete process including decontamination, drying, packaging, sterilization and storage of materials, must be carefully considered while its course, and the parameters of each phase of the process must be properly checked with the appropriate tests so that it can be proved the instruments have been sterilized.
To then summarize, the data on labels, USB supports, memory cards or printers connected to the autoclave, allow the recording - in analogic or digital format- of only part of the sterilization process; this part completes the needed information for a proper tracking action.



LABELLER
PRINTEX MEDICAL

Printex Medical labeler has two print lines and is the ideal appliance for tracking sterilized products. The labels apply after packaging as they are equipped with an indicator that identify the sterilization.
Featuring a double adhesive support the label can simply be attached to the sterile wrap and applied to patient documentation.
Maximum security thanks to the ability to enter the sterilization date, the expiration date and the lot number.

Code	Product
DEA4.13	Labeller for sterilization 2 printing lines, Roll with 500 labels included

Labels
ETI PRINTEX

The labels, with double adhesive support, are made with a class 1 process indicator according to the EN ISO 11140-1 standard. Once the sterilization has been carried out, indicator from pink becomes brick color.
The contents of the label allow you to go back to the lot, to the day of sterilization and the expiration date.
They are compatible with all the labelers that support a label of the size 26x16mm.

Code	Product
DEA4.14	Double adhesive support, class 1 indicator complying EN ISO 11140-1 standard. 3 pieces pack

Ink Pad
INK PAD

Ink pads with special ink, tightly closed, fitting for labelers with two printing lines. Expiration date: 3 years
Pack containing 5 pieces

Code	Product
DEA4.15	Ink Pads – 5 pieces pack

Traceability
SGT PRINT

The first independent labeling machine capable of printing all needed data on double adhesive labels with floating bar.

The labeling machine SGT-PRINT stand - alone ensures top-notch speed and performance. SGT-PRINT is not connected to any PC but works autonomously.
Thanks to the smart memory, it allows you to print with a single command the number of labels you want by automatically reporting:

- **Lot. Nr.**
- **Date**
- **Expiration date**
- **Operator code**
- **Sequential number**

The printer SGT-PRINT is a digital labeling machine that print s double adhesive labels with a class one turn detector and complies with ISO 11140-1.
These labels can be applied on instruments packs prior to the cycle of sterilization and then on the patient's folder.

Normal printers connected to autoclaves only print on thermal paper after the sterilization cycle. This can be a limit because, due to human error you could label non-sterile packages. They are also not equipped with a floating bar and sterilizing them, they could become black. They are also not equipped with double adhesive labels to prove the use of tools on a given patient, except with a special software connected to an optical reader. With SGT-print, all these limitations are breaking down, making the labeling phase simple and reliable.

FEATURES

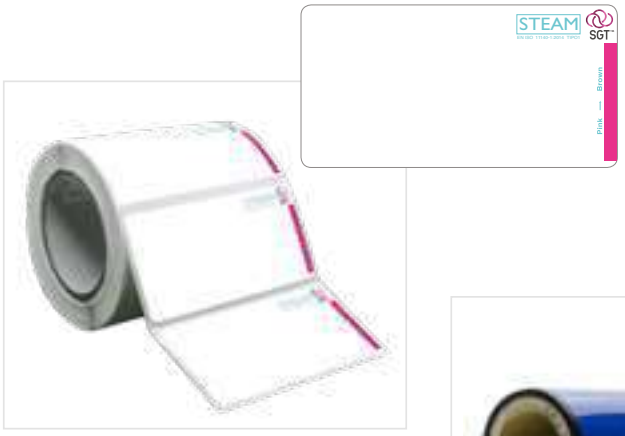
- Independent printing of data (lot number, date, expiration date, sequential number of the packs, operator code)
- roll containing 800 double adhesive labels 62x29mm
- Class one – EN ISO 1140-1 included
- Power 230724 vac

Code	Product
DEA4.13SGTA	Independent labeling machine SGT-PRINT + roll with 800 labels included

SGT-PRINT
THE PRACTICAL, SIMPLE AND RELIABLE LABELLING PHASE

Consumables

Code	Product
DEA4.14SGT	Roll with 800 labels, Double adhesive support. Process indicator class 1 Size 62x29mm. EN ISO 11140 – 1
DEA4.15SGT	Ribbon ink roll for SGT-PRINT printer



As mentioned above, the sterilization process is a procedure that aims to destroy all forms of living microorganisms and other pathogenic biological agents.

The most widely used sterilization method is the one made with autoclave by saturated steam with fractional vacuum. The features of this methodology are the following:

The process of sterilization of the autoclave is done by means of steam so it is a non-toxic physical process.

The essential prerequisite for sterilization in this type of autoclave is that the steam is saturated, that is an accurate balance between temperature and pressure. At the same time steam must be fluent so that it can stay in constant contact with the surface of all the instruments; by giving up its latent heat to instruments, the proteins of microorganisms are denatured. As a result, sterilization takes place.

It's essential that only saturated steam is present inside the autoclave chamber: air must be totally evacuated. Any pockets or air bubbles on the instruments would not allow proper sterilization. This happens because air gives out heat much slower then steam, so the parameters for sterilization would be missing inside the air sac.

To ensure the elimination of air, fractional vacuum autoclaves use the operating principle of hospital autoclaves; the vacuum pump performs various cues of vacuum by expelling the air from the autoclave.

Autoclaves with class B cycles according to the UNI EN 13060 STANDARD are the highest-performing ones because they can eject air from hollow bodies type A (turbines or and type B (suction cannulas) but also from porous bodies and packaged or unpackaged instruments

These autoclaves thus ensure the correct penetration of steam and the most effective sterilization.

05
STERILIZATION

Sterilization
ECATE AUTOCLAVE

Code	Chamber volume (lts)	Chamber dimension (p x ø)	External dimension (l x h x d)
DEA.18L	18	355 X 250	460 X 455 X 580
DEA.23L	23	445 X 250	460 X 455 X 580

The Ecate is a class B autoclave from Dentronica, and conforms fully to European standards. Thanks to its partial vacuum system, the Ecate can sterilise and destroy bacterial charges effectively even inside cavities. Bowie & Dick, Helix and Vacuum test programs ensure that these autoclaves conform to the latest applicable standards.

The Ecate is equipped with a high-speed microprocessor to control all sterilisation processes, monitor temperature and pressure inside the chamber and ensure that all cycles achieve effective sterilisation.

It is particularly easy to use thanks to six programs. An LCD color displays the selected cycle and its progress. An autodiagnostic system with virtually zero margin for error detects any malfunctions, halts the cycle and warns the operator in the event of a sterilisation failure. The autoclave even has a rapid cycle that can sterilise instruments safely in just 27 minutes if they are needed quickly.

The latest technology makes the Ecate autoclave totally reliable in all situations and enables it to deliver sterile, dry and ready to use instruments in the shortest of times.

Main advantages

With a choice of Six standards sterilisation programs, the Ecate is sure to offer the cycle you need.

The chamber is made from 2 mm thick AISI 304 stainless steel and is formed from a single pressing to ensure lasting robustness and total safety during all cycles. The pivoting internal basket can hold up to 5 trays.

The tank is fitted with a level sensor and a warning appears on the display if the distilled water level becomes too low.

A double action door lock ensures that the chamber is completely sealed and that the door closes fully and without margin for error.

The Ecate autoclave is also fitted with a USB port so that you can save sterilisation cycle data on your computer.

The operating software provided lets you save data on your PC, print it or send it via e-mail.

Both tanks can be inspected and cleaned quickly, easily and effectively without having to call for technical assistance.

Both tanks can be inspected.

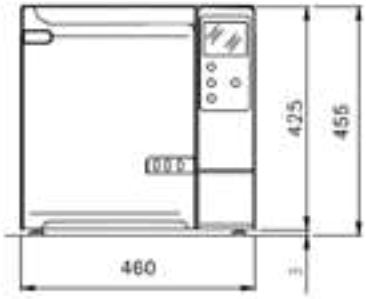
A folding top cover lets you top up with distilled water quickly and easily.

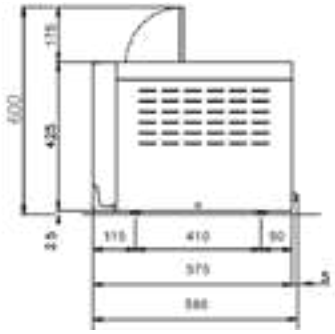
Double action door lock.

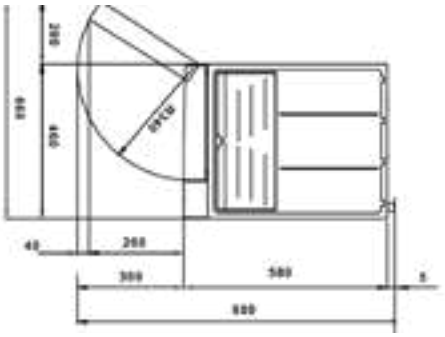
USB key for standard cycle memory. Quick attacks for discharge of water.

Technical Data
ECATE AUTOCLAVE

Dimensions







Sterilization Cycles

PROGRAM NAME	Temperature	Time	Number of vacuum phases
Rapid S	134°C	4 minutes	1
Standard 134	134°C	4 minutes	3
Prion	134°C	18 minutes	3
Standard 121	121°C	20 minutes	3
Glass	121°C	20 minutes	1

Data sheet and equipment list

PRODUCT CODE	DEA.18L	DEA.23L
Chamber volume (lts)	18	23
Chamber dimension (p x ø)	355x250	445x250
External dimension (l x h x d)	460x455x580	460x455x580
Minimum depth of bench to place the autoclave (mm)	390x450	390x450
Net weight (kg)	47	50
Maximum power (watt)	1600	1600
Power supply (volt/hz)	230/50	230/50
Type of door lock	Manual with electric lock	Manual with electric lock
Number of vacuum phases	01-03	01-03
Number of programs	6+2 di test	6+2 di test
Drying	Vacuum pump	Vacuum pump
Bowie & dick test	●	●
Helix test	●	●
Vacuum test (Air Leakage)	●	●
Delayed start	●	●
Cycle counter	●	●
Process evaluation system	●	●
Autodiagnostics and troubleshooting	●	●
No. of temperature sensors	2	2
No. of pressure sensors	1	1
High efficiency bacteriological filter	●	●
Two tanks	●	●
Water supply	Manual	Manual
Used water drain	Manual	Manual
Clean water drain	●	●
Water consumption per cycle (lts)	No	No
Water pipe loading / unloading	0,5-0,6	0,5-0,6
Compatibility with distiller	●	●
Cooling air filter	●	●
USB port for PC	●	●
USB key supplied	●	●
Internal printer	No	No
External printer	Opt.	Opt.
Bluetooth label printer	Opt.	Opt.
No. of tray	3	3
Rotatable tray holder	●	●
Pinza tray	●	●
Multilingual autoclave	English-Italian-Chinese	English-Italian-Chinese
Warranty (months)	24	24

Certification

CONFORMITY TO HARMONISED STANDARDS

EN 13060:2004
Small steam sterilisers
EN 61010-1
Safety requirements
EN 61326:2006
EMC requirements
EN 61010-2-040
Particular requirements for sterilisers
EN 17665.1:2006
Sterilisation of health care products.

CERTIFICATION

1993/42/EEC
Directive on medical devices
1997/23/EEC
Pressure equipment directive
CE 1128
CE 0197

06

06
STORAGE

Medical devices, once sterilized, must be stores in a closed compartments (drawer unit, cabinet, showcase, container carrier trolley, etc.), in clean environments with controlled temperature and humidity.
Before storage, be careful that there is no moisture residue on the packaging; in addition all actions that could damage sterile barrier systems such as bumping, falling packs, chafing.

It is very important that the packages are stored in order with respect to the expiry date so that their use is sequential to the sterilization date. This avoids the expiration of packages.
During storage, the operator is still required to check the expiration date on the packages previously stored.

It's very useful to store in pharmaceutical showcase where you can, at a glance, check from the outside the date of the sterilized materials.

Storage
CABINET CART

The Handy Surgery line also features the container cart, made completely from AISI 304 Stainless Steel with Scotch-Brite finish, anti-tip structure and revolving rubber bumpers at the corners.The retractable front closing system is equipped with push handles, to facilitate the movement of the cart. The double hinged door, with 270° opening ensures hermetic seal by means of a perimeter silicone seal. This feature allows for the transport of both sterile materials, protecting them from possible contamination, and non-sterile materials.Inside the cabinet there are two fixed shelves, also entirely in AISI 304 Stainless Steel, which can carry three containers of 1/1 sterilization unit (600x300x300), side by side.

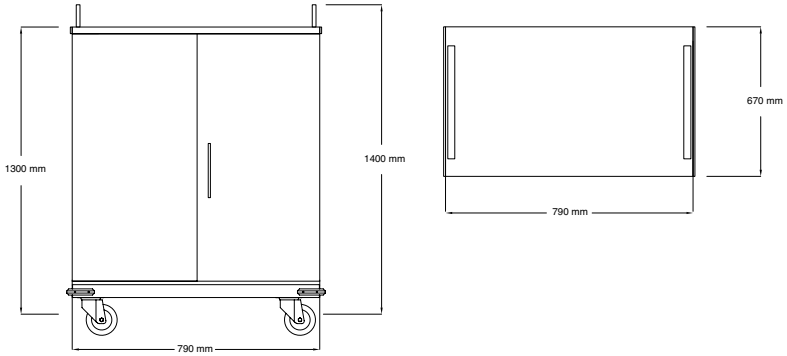
Article Code	TM2104
Material	AISI 304 Stainless Steel
Lenght (mm)	790
Depht (mm)	670
Height (mm)	140
Antistatic wheels	•

Details

Two fixed shelves – AISI 304 - for holding Containers. Closure with retractable handle.

Four pirouetting, antistatic and anti-tracing wheels; two of them with brake.

Technical data

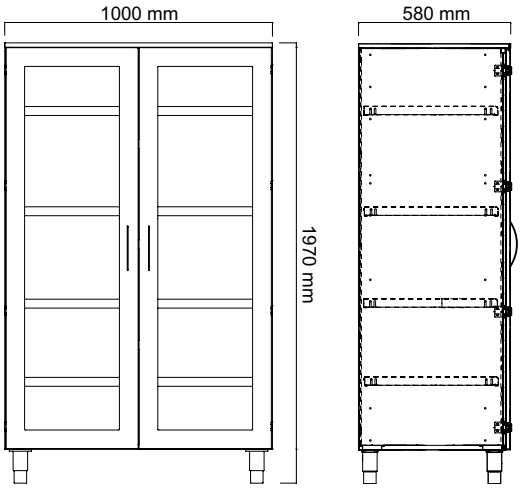


Storage
PHARMACEUTICAL SHOWCASE

In the clinic it is always necessary to maintain a good organization and management of drugs into an essential and practical showcase. The Pharmaceutical showcase is equipped with a solid and robust stainless steel structure with glass doors for immediate inventory consultation.
The four height-adjustable shelves facilitate the search for drugs, allowing them to be found in a practical and quick way.

Article Code	TM5020SM
Material	AISI 304 Stainless Steel
Lenght (mm)	1000
Depht (mm)	580
Height (mm)	1970

Technical data



TRACKING

Tracking is the process that goes back into the production chain of a product - in this case in the process of sterilization of the tools - for the purpose of researching and identifying a specific event or action that may have generated a criticality or a non-compliance.
The tracking of the instruments is a basic procedure for the management of the instrumentation used: it allows you to know the path that each instrument follows from preparation to sterilization up to its use. In particular today it is necessary to report all the documents relating to the sterilization steps within a paper register so that they are always available for consultation.
It is important to remember that there is a legal liability to the alleged damage in the event of a dispute and it is necessary to be able to demonstrate also through procedures, that in your office all the systems are suitable for proper Sterilization.


STEAM
EN ISO 11140-1:2014 TIPO1
Brown

SGT™
sistema gestione tracciamento

Tracking
SGT. Simply record.

From the constant requests of your colleagues and perhaps yours who needed a system that would allow a safe and fast storage method, the innovative idea of Tecnomed was born by creating a computer archive that tracks and records the entire sterilization process.
Tracking and digitalizing all the activities automatically saved in Cloud Tecnomed helps to protect every health manager and the entire dental practice from the medical aspect of the law.
This system was, in fact implemented in accordance with two regulations:
UNI/TR 11408:2011 – TECHNICAL STANDARD that defines the effectiveness of individual phases and the entire reconditioning process of reusable medical devices, sterilized by steam
LEGISLATIVE DECREE 81/2008 – Title of the guidelines for sterilization activity which obliges to adopt a system of tracking down sterilized surgical instruments.
The computer archive of instrumentation management combined with the cataloguing of various sterilization tests and tracing labels represents proper filling in the legal sense.
In addition, if research is required, it is a faster way to find the data concerning the tool used on a particular patient.
SGT (Sterile material tracking management system) is the certified system patented by Tecnomed Service (Tecnomed Italia development department) for forced registration and automatic archiving of all steps of the sterilization process including the outcomes of sensitive equipment and those of chemical sterilization tests.
Thanks to the SGT system you no longer need to have a paper register that needs to be manually updated; the process is recorded digitally, saving the operator time and office money ; it is also guaranteed that the operator performs all the steps of the sterilization process in the right way thanks to the built wizard.

FIND OUT HOW IT WORKS

Code	Product
DEA4.00SGT	Singol sign-in with account to sgt platform/compatible with Android-iOS-Windows/Storage space 15.000 record
DEA4.00SGT.N	Double sign-in

SGT™
sistema gestione tracciamento

ISO/TS 17665-2:2009
UNI/TR 11408:2011
UNI/EN 556
D.lgs 81/2008

MiBAC DGBIC Prot. n. 0006987-A

SGT, THE FIRST DIGITAL STERILIZATION REGISTER COMPATIBLE ANDROID-IOS-WINDOWS, CAPABLE TO RECORD THE ENTIRE STERILIZATION PROCESS.

SGT system records and stores:

THE SEQUENCE OF STEPS
NO MARGIN FOR ERROR

THE START AND END OF THE PROCESS
TIME SPENT CONTROL

REPORTS OF AUTOCLAVES,
THERMAL WASHER DISINFECTORS AND
CHEMICAL TESTSCORRECT
DATA STORAGE FROM ALEGAL POINT
OF VIEW

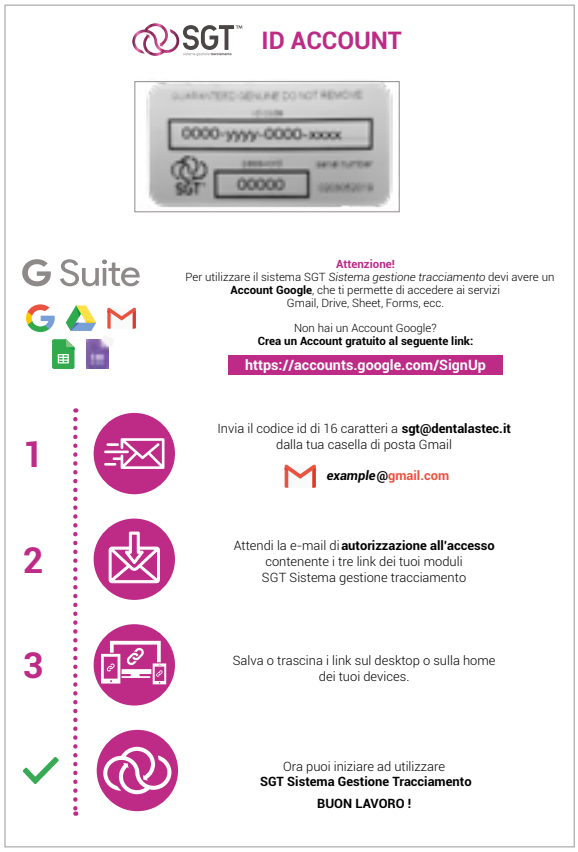
This system can be managed using any Windows or Macintosh or Android or iOS device, data is automatically stored on the Google Drive Cloud platform a web service that ensures data retention and security, the storage space is of 15.000 records so it can be considered unlimited. The data is not saved to the local disk because the application used resides on the Google server. It can be launched from any PC or mobile device, without you need for any software installation.
At the end of the process, a protocol is automatically created with all the information collected on Google Spreadsheets always stored on the Cloud system. The collected information is protected, cannot be falsified and can only be viewed by enabled users.

Compatible with

SGT™
sistema gestione tracciamento

Tracking
SGT: HOW IT WORKS

The system is of extreme simplicity.
After you buy SGT tracking management system, you will receive an email containing 3 links. Drag or save the links on the desktop of your PC (Window or macOS) or on the home of your mobile/smartphone (android iOS)
In a few steps the game is done: The system is ready to be used. The three links in fact are connected to the modules and the data store that allow the operation of the entire storage system.



In detail

SGT DOC.01S IS THE Cloud Census Form
SGT DOC.02S IS THE Cloud process registration form
SGT- ARCHIEVE is the Spreadsheet format data store saved in Cloud
From the home of your device or from the desktop of your PC you can therefore easily access the system and in just a few steps you will start using the electronic archive.

First step

Open and fill out the form
"SGT DOC.01S system master data"
This module will record in Cloud:
- Your doctor's office data
- Data from operators involved in the sterilization process
- Data from the equipment involved in the sterilization process

Second step

Open and fill out the form
"SGT DOC.02S tracking procedure"
Each time the operator starts the sterilization process he will perform step by step the form.
- This form will record:
- The start and the end of the process
- Successfully execution of all stages of the process
- The lot number and all the data needed to ensure the tracking
- The result of equipment cycles in photo format (single unalterable format)
- Results of sterilization tests.

Third step

Archiving files "SGT tracking archive"
All recorded data will be automatically present in the storage document "SGT tracking archive" and saved in the Cloud space. Data is not editable but only visible from any devices using your Google account.z<

TRY THE DEMO VERSION

SGT™
sistema gestione tracciamento

Tracking
EVEN FASTER WITH SGT-PRINT INTERACTIVE

The first STAND ALONE labeling machine capable of printing all needed data and QR-code data store on double adhesive labels with floating bar.

Stand alone SGT-Print Interactive ensures top-notch speed and performance. It is not connected to any PC but it works autonomously. Thanks to smart memory allows you to print with a single command the number of labels you want by automatically

- **Lot number**
- **Date**
- **Expiration date**
- **Operator code**
- **SEquential number**
- **SGT Archive QR-code**

Code	Product
DEA4.13SGT	Stand alone labeling machine SGT-print Interactive qr-code roll with 800 labels included

Features

Autonomous printing of data (lot number, date, expiration date, packages sequential number, operator code and QR-code SGT ARCHIEVE)
A roll with 800 double adhesive labels 62x29 mm – Class 1 en ISO 11140-1 included.
Power: 230/24 vac

The interactive version can also print the QR code linked to your SGT archive

Consumables

Code	Product
DEA4.14SGT	Roll with 800 labels. Measurements: 62x29mm, Process indicator – Class 1. Double adhesive support EN ISO 11140-1
DEA4.15SGT	Ribbon ink roll for SGT-PRINT printer

Tracking
SGT-TABLET

Don't you have a Google account? Don't you have a Wi-Fi netwok? Don't you have a smartphone?
No problem, We'll take care of. With SGT-tablet and a SIM card of any provider you'll be ready to use SGT and change the way you work for the better.

Already configured:

- **Account Google**
- **Link SGT forms on Home**
- **Sim card not included**

Code	Product
DEA4.00SGT.1	SGT-tablet with Google account and 3 forms link

Features

SGT-Tablet – LCD 10,1"
4G with slot sim
Android operating system
Wi-Fi
Bluetooth

FIND HOW IT WORKS

STERILIZATION TESTS

In this guide it's important to highlight which controls should be made to ensure that a good sterilization process is performed in the dental office.
In addition to being important for security reasons, it should be specified that in the directives relating to the minimum organizational requirements issued by some Regions, documents relating to these tests are required to be archived.
These tests will need to be recorded in appropriate test archives for the control of the sterilization process, together with documents relating to the extraordinary periodic maintenance of all the equipment followed by qualified technicians.
Thanks to this documentation the office's Health Director has constant monitoring of the effectiveness of the sterilization process and shields himself from attribution of responsibility for alleged non-compliance with hygiene and safety requirements.
The frequency of the tests is specified in the UNI/TR11408:2011 standard. However, the terms above may vary depending on the flexibility described in section 9.2 of legislative decree 81/2008 title X of the regional provisions on the matter or the decision of the Health Director after carrying out the risk analysis on his structure.
As previously mentioned, the technical UNI EN 556 standard states that the sterilization process is a special process for which it is not possible to verify the condition of sterility directly on the final product or through tests. It therefore requires that application of documented tests and procedures proving the validity of the process itself.
The set of this procedures is called validation. This implies that this process has taken place to high quality standards, which must be checked and verified periodically.

Sterilization Tests
VACUUM TEST

1 PER DAY
OBLIGATORY

The vacuum test is a physical test for the B-class autoclaves. It must be performed daily on an empty and cold machine. All the B-class autoclaves have a special program to verify the reached degree of vacuum and its duration and that they meet the minimum requirements fixed by the regulations. The cycle report must be stored on an analogic or digital sterilization register.

Sterilization Tests
HELIX-TEST

1 PER DAY RECOMMENDED

Helix-test is a physical test for class B autoclaves. It is ideal for assessing the penetration strength of the sterilization agent (steam, hydrogen peroxide,/ plasma ethyline oxide, formaldehyde) inside hollow bodies.
This test should be carried out in dental offices as there is presence of instruments with cavities of type "A" narrow bodies such as dental handpieces. Air and other non-condenser gases must be removed from the sterilization chamber before sterilization agent come into contact with the hallow devices to be treated to avoid negatively affecting the outcome of the cycle. The test is carried out in an empty chamber after the vacuum test and before the normal use of the autoclave. The system is compatible with all types of autoclaves and is produced in accordance with current regulations.

- **It allows you to immediately and accurately detect the presence of any anomalies during the Helix-test cycle**
- **The resulting response remains unchanged over time**
- **Inside a toning indicator, at first glance, indicates whether strip has been used or not.**
- **100 strips pack.**

Code	Product
DEA4.02	Test Helix device Class 2 + 100 strips

How to use

Procedura del test

1 Open the device Helix test system PCD separating the cap from the capsule where there is the housing for the insert of the toning strips of Helix test device system PCD

2 Fold the strip at the incision (fig. 2.a) Indicator ink should be facing inward (fig. 2.b)

3 Insert the folded strip into the chamber; folded side must be faced outwards of the chamber (arrival steam flow) (fig. 3)

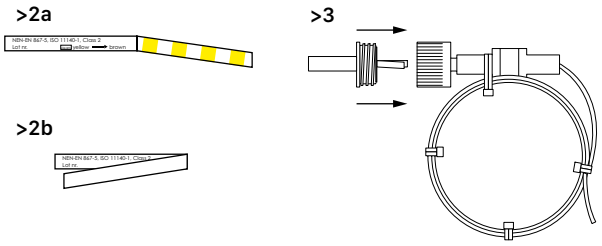
4 Tightly close the device Helix test system PCD by making sure the sealing ring is correctly positioned (fig 3)

In absence of an autoclave program dedicated to Helix test

In the absence of this function, make a cycle by settling the sterilization parameters necessary to obtain the color change of the indicator ink: 134°C of saturated steam for 3.5 minutes, 121°C of saturated steam for 15 minutes.

At the end of the test, open the capsule of the Helix test system PCD and extract the indicator. If all the air inside the device has been removed the saturated steam is penetrated inside the cannula until reaching the chamber and the temperature of 134°C has been maintained for at least 3.5 minutes (alternatively 121°C for 15 minutes) indicator ink will be turned from yellow to black, proof that all sterilization parameters have been met.

Report the lot number on the strip and store it in the sterilization register or upload photos as instructed in SGT.



Reading the test

1 > Sufficient air removal, steam penetration and temperature reaching .

Passed test

2 > Insufficient penetration of steam and insufficient air removal

Failed test

3 > Insufficient air removal and penetration of steam with temperature reached

Failed test

4 > Insufficient air removal and penetration of steam – temperature not reached

Repeat test

Sterilization Tests
BOWIE & DICK TEST

1 PER DAY — RECOMMENDED

Bowie & Dick is a physical test for B –class autoclaves. This test is used to assess the ability of steam penetration into porous bodies. The presence of air inside the autoclave poses a threat to the safety of the sterilization process. This problem is solved through the disposable ready package Bowie & Dick as required by the current regulations.
Unlike traditional devices, the use of the ready package has significant advantages that ensure the test standards are maintained for each test carried out and allow you to immediately detect the removal of air during the sterilization process.
Test is made in the empty chamber after the vacuum test and before the normal use of the autoclave.

- **It allows you to immediately and accurately detect the presence of any anomalies during the Bowie Dick cycle**
- **The resulting response remains unchanged over time**
- **The external package is equipped with a toning indicator that signals, at a glance, whether the package was used or not.**
- **The materials which it is made with are fully recyclable and the toning chemical reagent is non-toxic**
- **Each package of Bowie & Dick is equipped with a complete card for the easy-to-fill data storage.**
- **Pack containing 20 pieces.**

Code	Product
DEA4.01	Bowie Dick Tmi test – pack containing 20 pcs.

Instructions for use

Test procedure

Make sure that the autoclave has run the warm-up cycle. Place the test in the autoclave with the indicator positioned up, centrally, on the lowest shelf. Make a cycle of Bowie & Dick.
At the end of the cycle carefully handle. The test package will be warm; wear, therefore, protective gloves. Break the outer wrapping of the package and extract the indicator sheet placed in the center of the package itself.

Toning interpretation

When the needed conditions for sterilization are met, the test will unequivocally turn from yellow to uniform black/grey certifying that all the parameters for which it was conceived have been complied with.

Fill out the test sheet in all its parts and store it in the appropriate binder by attaching, at your discretion, the outer sheet of the Bowie & Dick package with the process indicator, or upload the photo as instructed in SGT.

Any turn other than yellow to uniform black/grey expected, indicates an incorrect evacuation of the air inside the autoclave. This means sterility is not archieved and in this case it is advisable to repeat the test using a new package.

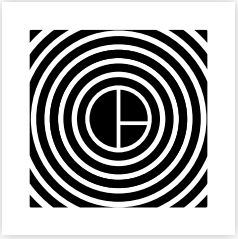
Example of toning showing not archeived sterility

1 > The inner sheet of Bowie & Dick package did not turn uniformly to Black/grey highlighting a clear bubble.

2 >The inner sheet of Bowie & Dick package turned uniformly but to grey/light brown.

Test nuovo

Test riuscito



Test fallito

Sterilization Tests
MULTIPARAMETRICAL TEST

RECOMMENDED AT EACH CYCLE

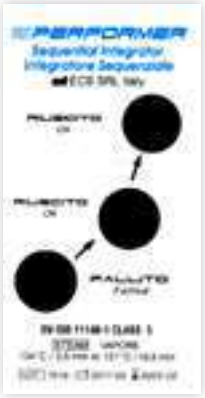
Multi-parametrical tests or chemical sterility indicators or sequential supplements are chemical tests to be performed exclusively on saturated steam autoclaves at each sterilization cycle. They are presented as functionally plastic indicators in all steam sterilization cycles with standard temperatures of 121°C or 134°C and are used to control the sterilization of packed and unpacked instruments and packages containing such and other standard items used in the hospital and dental fields. The test verify that the sterilization was done by monitoring all critical parameters such as temperature, pressure, time and presence of saturated steam. They can be migrant bars or points, the important thing is they comply with UNI EN ISO 11140-1 class 5 standard. With each load you run, it is recommended to place a chemical indicator of sterility inside a package in the same condition as the material to be sterilized.

Thanks to the 3 indicator points, provides more information than a simple non-sequential indicator since the first indicator, once changing color indicates the beginning of the sterilization process; the second indicator, once changing color indicates the end of the sterilization process and the third indicator, once changing color indicates overexposure.
Normally all the three indicators must change color: when the third indicator has not changed color the operator will have to go to alarm asking for technical intervention for the maintenance of the autoclave.

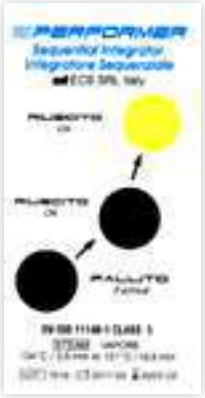
Code	Product
DEA4.03	Test performer class 5 - 250 pieces pack

Test nuovo

Test riuscito



Test fallito



How to use

Test Procedure

Place the "PERFORMER" supplement in the center of each package to be sterilized into autoclaves

The first indicator point must turn from light blue to black when exposure to steam sterilization conditions has been below the established values.

The second indicator point must turn from green to black when exposure to steam sterilization contidions meets the established values.

The third indicator point must turn from yellow to black when the conditions of exposure to the steam sterilization cycle have been above the established value that is not only were the conditions reached but the material overexposure to the process.

Report the batch number on the executed test and store it in the sterilization register or upload photos as instructed in SGT.

Sterilization Tests
WASH TEST FOR THERMAL DISINFECTION

AT EACH CYCLE RECOMMENDED

Wash test is a chemical test for thermo disinfectors that verifies the mechanical action of dirt removal, as established by the UNI/EN 15883-1.
The thermal disinfection is carried out on all the thermolabile medical devices.
It is performed by keeping the constant temperature for a set time ensuring the bacterial, fungicide action and the virus eradication. The effectiveness of disinfection is closely linked to the temperature and time spent.
We recommend you to use it with each cycle especially in the absence of a print report issued by the machine.
With each load you run, it is recommended to insert a chemical indicator enclosed in a special metal case in the same conditions as the material to be disinfected.

- **Washing indicator**
- **Indicator for the washing conditions control in thermodisinfectors and for monitoring cleaning in automatic washing machines.**
- **The Wash test indicator consists of a support of 4,7cm x 10,0cm stable at the temperature and containing a mix of natural components,**
- **Colored (proteins, carbohydrates, fatty acids and dyes) that simulate the fibrin contained in the blood.**
- **There is no derivative or component of blood.**
- **The reagent is non-toxic. Dissolves with most detergents and is removed with the washing liquid**
- **In compliance with D class en 867 and 4 class ISO 1140 standards**
- **100-piece pack**

Code	Product
DEA4.16	Thermal disinfection Wash Test - 100 pcs. Pack
DEA4.16.1	Steel Support for Wash test

New test

Successful test

Failed test

How to use

Test procedure

1>Place the indicator on the support
2> Place the system on the tub next to the material
3>After completing the washing cycle, remove the indicator
4> Analyze the wash test indicators comparing them with the reference table and record results
Red protein emulator material must be totally removed. Facing with an unsuccessful result, take corrective actions and repeat the washing process. It is recommended to use at least one wash test indicator for each washing cycle in different locations in order to monitor the performance of all the areas of the machine during the washing process. Report the batch number on the run test with an indelible marker and store it in the sterilization register or upload photos as instructed in SGT.

Sterilization Tests
WASHING TEST FOR ULTRASONIC TUBS

EVERY 15 DAYS RECOMMENDED

For this washing system there are no reference technical standards
Please note that the temperature and time set must meet the specification stated on the cleaning solution. A minimum variance between the parameters you set and those specified, depending on the tolerances of the sensors of the ultrasonic tub does not affect the proper functioning. It is recommended to make, at least every 15 days a test suitable to prove the correct cavitation so that you can ensure the repeatability of the process.
The test vials of Ultrasonic-check test are alternative product to perform an ultrasonic activity test rather than using the aluminum foil validation method. The vials have proved easier to use as they are ready for use directly from the box and are easy to read visually from the color change and interpretation of the results.

Ultrasonic tub test, consists of a single-use sealed vial containing a blue-colored indicator solution and some nucleus that are activated in the presence of cavitation.
When the ultrasonic tub, within a time frame can provide enough energy the vial will show a change of color from blue to yellow
A change color failure can depend on insufficient energy, overload, incorrect lever of water or incorrect degassing,

- **Programs supported from 18°C to 70°C with or without detergents or cleaning solutions with frequency of 35 kHz or higher.**
- **30 vials pack.**

Code	Product
DEA4.17	Test Ultrasonic-Check - 24 vials pack

New test | Successful test | Failed test

How to use

Test procedure

Prepare the products to be used with the cleaning solution following the directions. Once degasifying the tank, adjust the temperature according to the type of detergent used.
Take as many indicators as needed based on the size of the tank.
Shake the indicators once and place them on the instrument basket as in figure 1. Place the basket in the tub to start the desired program. One the process is finished remove the indicator and analyze the result.

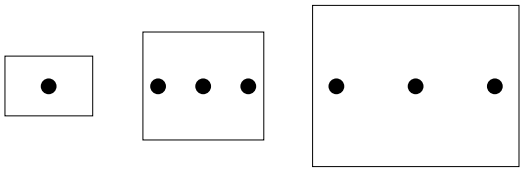
Change of color from blue to yellow= successful test.
There is presence of energy useful for washing

Change of color from blue to green = failed test.
There is a useful energy problem.

Report, written in pen, on the label of the vial the lot number and store it in the sterilization register or follow the photo upload as instructed in SGT.

How to place the vials in the basket

Tub 1-2 LT.	**Tub** 3-5 LT.	**Tub** 6-10 LT.



Sterilization Tests
WELDING TEST FOR SEALING MACHINES

RECOMMENDED
OGNI 15 GIORNI

The thermal welding tests allow you to check the quality of the seals performed during the packaging of the instruments.
Even if there are no specific reference standards, it's of the utmost importance that the packaging maintains the sterility of the material until the established deadline in accordance with UNI EN ISO 11607-2 AND UNI EN 868-5 standards. For this reason it is necessary to provide routine checks in sealing machines.
The test ascertains the quality of the thermal welding by highlighting the temperature and pressure parameters exerted on the bar on a specific area printed on the test. The correct fusion of the inner layer of the film and the correct pressure on the paper of the bag are indicated by a uniform coloring in a specific area of the test. Insufficient temperature, worn welding bar or insufficient pressure are the causes of a disabling result highlighted by the test.

- **Ideal for daily testing of the sealing integrity of sterilization bags.**
- **30 test sheets pack**
- **In compliance with EN ISO 11606-2 standard**
- **Checking consists of monitoring bars temperature and pressure. Test holds in evidence the uniformity of the weld as well as the perfect tightness of the flaps**

Code	Product
DEA4.18	Seal Test for welding machines. 30-pieces pack

How to use

Test procedure

Set the welding temperature as instructed by the sealer machine manufacturer . The ideal indicated range is normally between 155°C and 180°C.

Take the Seal test and place it under the welding bar welding the firm and the paper in the appropriate green colored part.

Check the quality of the weld by verifying that the line of the weld is uniform and darker green.
Fill in the descriptive part of the test with all the information derived from the procedure just performed or in any case the lot number written in pen and store it in the sterilization register or photo upload it as instructed in SGT.

New Test

Passed test

Failed test

WATER TREATMENT

The water that flows from our taps moves through the layers of the soil enriching with mineral salts, including calcium and magnesium.
These salts in high concentrations are responsible for the formation of limestone crystals in the water. Limestone encrustations damage all the equipment that operate by using the water supply system.
It is estimated that every millimeter of encrusting causes the loss of almost 10% of the energy efficiency of an equipment. In addition to the mineral salts in the water parasites and bacteria may be present despite the fact chlorine is regularly administered in the waterworks For these reasons and to preserve the operation and safety of the equipment such as autoclaves, it is important to use water treatment system

Water Treatment
WATER TEST

To be sure that your water treatment plant is fully fuctional you need to run water tests, at least monthly
This is possible with the conductivity meter. It represents a professional solution to verify the conductivity of distilled and demineralized water. This low-scale conductivity meter is a reliable, compact and robust tool and is equipped with a probe with a built-in temperature sensor to be able to perform temperature adjustment ensuring quick and precise measurements. Functioning and maintenance are simple.
Pressing the only button on the top of the appliance the tester turns on and is ready to use.
The acceptable measured value must be between 10 and 80 us.

Article Code	DE10TE
EC scale	From 0 to 1999 µs/cm
EC resolution	1 us/cm
EC accuracy	+/-2% F.S.
EC calibration	Automatic at 1413 µs/cm
Temperature compensation FC/TDS	Automatic from 0 to 60°C (from 32 to 140°F) µs/cm
Type/battery life	155v(2)/around 200 hours /Auto shutdown after five minutes
Terms of use	From 0 to 50°C (from 32 to 122°F)U.R.max 95%
Measurements	180X50X25
Weight	50gr
Order information	Primo 5 supplied with batteries and instructions

Water Treatment
DISTILLER TECNOSTIL

Tecnostil if the new Tecnomed Italia distiller that generates boiling distilled water thanks to forced condensation.
Simple both the installation and the use, can produce 1,5 liters of pure distilled water in an hour.
Just fill the tank with tap water and turn on the network switch.
With Tecnostil any problem with using non-pure water will be eliminated.
The distilled water produced in equipment such as the autoclave will avoid problems with the electrovalves or internal ducts. The instruments will be brilliant and free of limestone residue.
No more wasting time buying bulky containers of distilled water.
Tecnostil is available in white or stainless version with display panel for temperature control and shutdown time.

Resistant stainless steel condensation boiler with maximum water signal.
The tank is extremely durable and has a capacity of 4 liters and is equipped with an airtight locking cap.
Automatic shutdown at the end of the cycle.
Connector with power button on the back.

- **Distiller**
- **Tank**
- **Tank cap**
- **Coal filter**
- **Citric acid**
- **Power cable**

Article Code	DEA05Q	DEA05QX
Shutdown safety thermostat	160 °C Automatic water run-out	160 °C Automatic water or time run-out
Litres distillation capacity per hour	1	1
External material	White PVC	Inox
Tub material	Inox	Inox
Temperature regulation		•
Display		•
Power	230 vac	230 vac
Size with tank mm	375x385	375x385
Weight Kg.	3,5	3,5
Warranty	24 months	24 months

Details

Resistant stainless steel condensation boiler with maximum water signal.

The tank is extremely durable and has a capacity of 4 liters and is equipped with an airtight locking cap.

Code DEA05QX
Automatic shutdown at the end of the cycle
And temperature and time regulation.

Accessories

Code DEA05Q.2
Coal filter.
(Five-piece multiples)

Code DEA05Q.3
Product for decalcification
250 gr.

Trattamento Acqua
DEMINERALIZER DTPO2N

The DTPO2N system is an extremely compact universal demineralizer designed to remove all salts from the water by using special resins. This system provides a continuous supply of pure water and can be directly connected to auto-load autoclaves.
The DTPO2N demineralizer together with the dispenser gun DSR55 is the ideal option for rinsing the tools or to carry out the water load on the manual load autoclaves. The system is installed inside the sink furniture.

Universal Tecnomed demineralizers are able to remove dissolved salts in the water. Columns containing ion exchange resins hold the salts of the net water by leaking demineralized water to a quality that varies from 0.1 us to 30us depending on the amount of salts in the incoming water.
This quality complies with the requirements of the EN13060 standard on the purity of water for the supply of small sterilizers and not only.

- **2 cartridge containers**
- **2 empty cartridges**
- **1 flow regulator**
- **1 key**
- **1 bracket**
- **1 bucket containing resin (1,2 lt.)**

Article Code	DTP02N
Flow	48 l/h
Initial water purity	0.1 µS
Max. water temperature	30°C
Internal cartridge size (d x h) mm	72,5 x 250
Total footprint (l x w x h) mm	270 x 145 x 335
Net weight	2,5 Kg
Assembly time	30 minutes
Power	230/12 vac
Warranty	24 months

Water flow is important for proper demineralization. If the flow of the incoming water is excessive the process does not happen correctly. The supplied flow controller allows to maintain a constant flow water supply, ensuring the correct demineralization process.

Code DCR06 (cartridge 93/4 with resin)
Replacing the resin is quick and easy, You can choose whether to replace the entire cartridge or only the resin inside the same. 1,2 lt. of resin (code DRR12) is enough to regenerate two cartridges.

Accessorie

Universal conductivity meter with LCD display

The demineralizer can be equipped with a conductivity meter that automatically detects water quality and blocks the dispensing in case the resins are no longer effective,
Once the resins are exhausted they can be easily replaced by the operators.
If you want to constantly monitor the quality of the produced demineralized water and block the flow in case it is poor quality, you can integrate the conductivity meter with LCD display to the demineralizer.
Through the dip switch placed inside the panel you can set the maximum threshold of the desired micro siemens from 10 to 400 microns (factory settings 30 microns)
An electrovalve blocks the flow of outgoing water if it exceeds the set value.

Code	Product
DCV22LC	Universal conductivity meter with LCD display and block electrovalve

Water dispensing gun

Code	Product
DSR55	Dispensing gun. Pipe grafting 4x6mm

Universal resins

The universal mixed bed resins are of high quality and are able to demineralize the outgoing water leading the value close to 0 µm. They are required to be replaced periodically in relation to the conductivity of incoming water. For example, with an incoming water conductivity of 280 µm, it is necessary to replace the resin after producing about 80 Lt of pure water. After this threshold the purity of the water will no longer be in line with the requirements of the EN13060 STANDARD

Code	Product
DRR12	Bulk resin in bucket. 1,2 LT

WORK ENVIRONMENT

Furniture in the sterilization room is often overlooked, while it is an environment that should be carefully designed; an orderly and well-structured sterilization room conveys reliability and safety.
For this reason it should be an on sight environment; a new patient, when entering for the first time in the dental clinic has no guarantee on the quality of the interventions nor on hygiene and cleanliness.
On sight sterilization room creates an immediate confidence as it offers the certainty that the medical staff really has nothing to hide so it's the best possible business card.

It is essential to organize the environment in a practical, hygienic and safe way; the furnishings of the sterilization room Sterinox, completely made of stainless steel are synonymous with linearity and robustness and allow a perfect disinfection of all surfaces.
A fully modular solution; thanks to the countless variations and features arrangements, STERINOX ensures a great organizing space. Tecnomed Italia team designs smart and modern ideas with the customer and provides the best solution based on operational needs and available space.

By driving process speed with new high-tech features thanks to specific features, Sterinox sterilization furniture line is the answer to today's needs.

100% STAINLESS STEEL
100% HYGIENE

Work Environment
STERINOX LINE

Compact Module
To carry out a complete sterilization process without hindrance
Tecnomed has designed the compact Stainless steel Sterilization module.

WATCH THE VIDEO

How does it differ from others?

Wall Rack

The wall unit equipped with all stainless steel can be standard or equipped with a guide for sliding four chosen shelves that house:

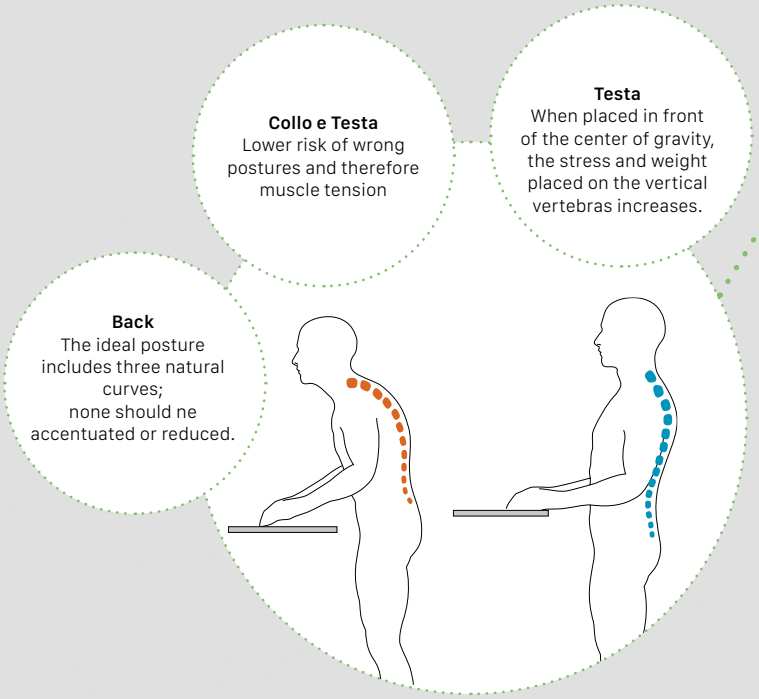
- **Soap holder**
- **Ultrasonic tub**
- **Tablet or smartphone**
- **Autoclave printer or labels**
- **LED lighting**

The four sliding shelves actually increase the available work surface and can be moved as desired throughout the guide.

Worktop height 1020 mm

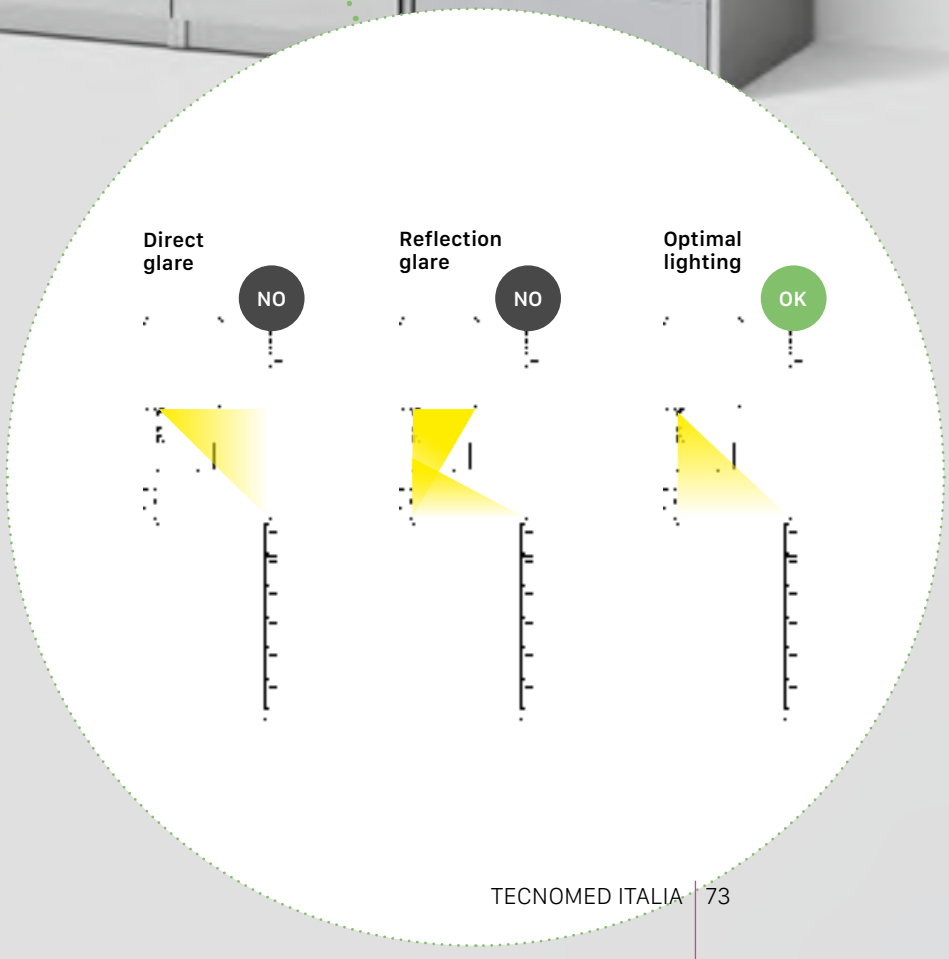
Designed to accommodate all the necessary equipment for sterilization and ensure maximum order, the most innovative aspect of this module is the height of the worktop.

Tecnomed has designed the higher height plan in such a way as to promote a correct posture for the operator who follows the sterilization process; by working on his feet, in fact, the higher height prevents the attendant from taking wrong postures. You can still opt for a standard height worktop (900mm).



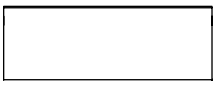
Lighting

By analyzing the reflection index of surface Tecnomed has created the optimal lighting of the working area with linear LED light with hot light filtered by a diffusion screen. Integrated and oriented LED lighting with 45° tilt. eliminating the possibility of indirect glare or reflection. For the operator, optimal lighting free of glare is fundamental as it promotes concentration and helps to avoid distraction errors due to fatigue. Finally on top of the equipped wall are sockets for satellite appliances and lighting control switches.

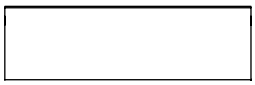


Sterinox Line
RACKS

Standard wall rack - unelectrified

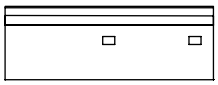


DE9.40X.15.20
Stainless steel wall rack
1500x20x480(h) mm
standard

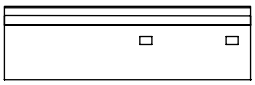


DE9.40X.20
Stainless steel wall rack
2000x20x480(h) mm
standard

Electrified wall rack

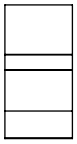


DE9.40X.15
Steel wall rack
1500x20/50x480(h) mm
guide rail
2 sockets+USB

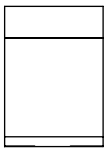


DE9.40X
Steel wall rack
2000x20/50x480(h) mm
guide rail
2 sockets+USB

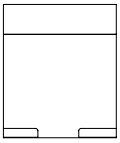
Accessories for electrified wall rack



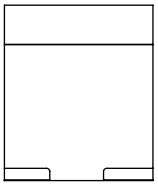
DE9.40X.4
Soap dish support stainless steel for wall rack



DE9.40X.3
Tablet support stainless steel for wall rack



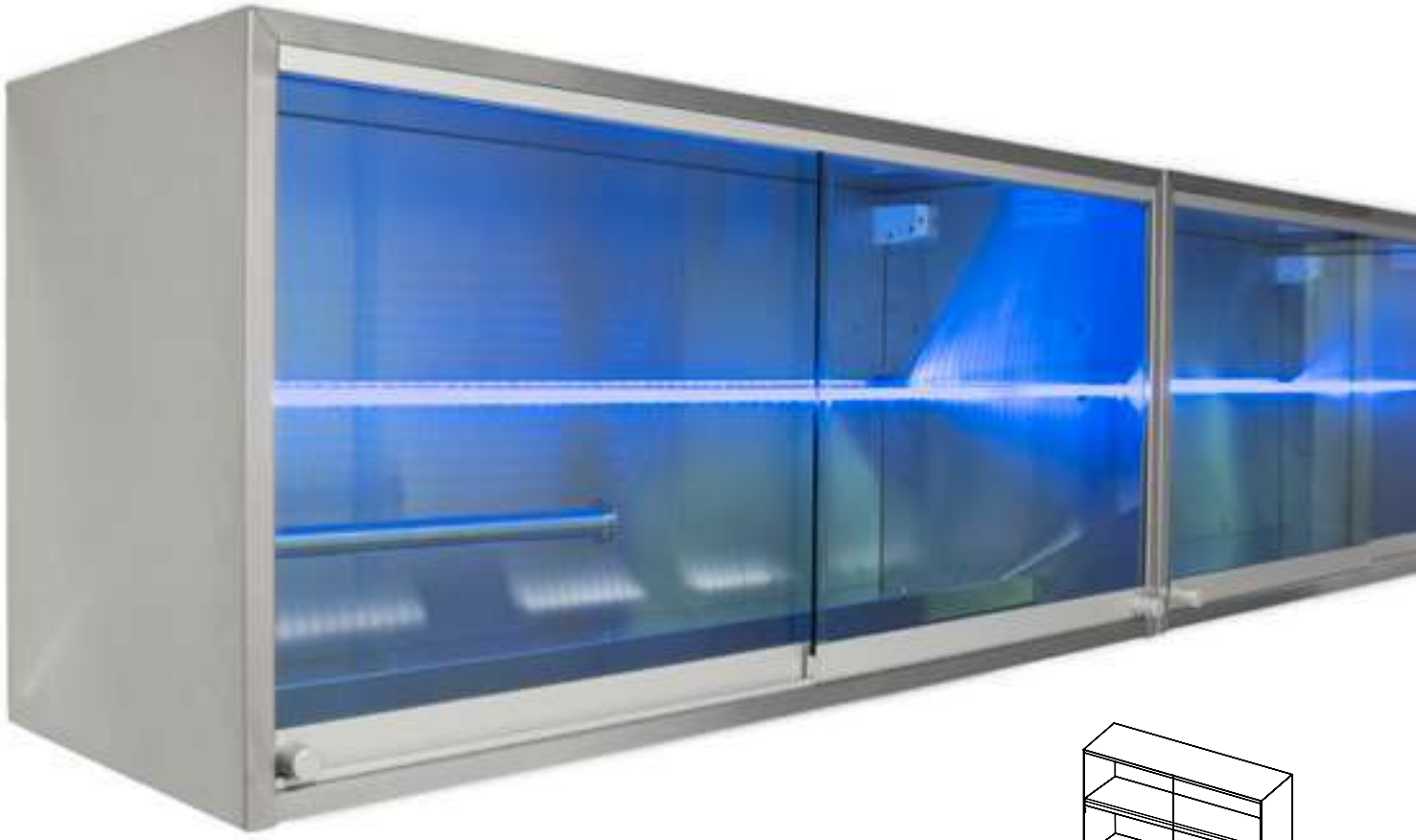
DE9.40X.5
Print support stainless steel for wall rack

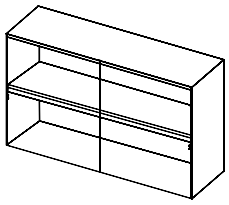


DE9.40X.2
Ultrasonic cleaner (3/5 litres) support stainless steel for wall rack

Sterinox Line
SHOWCASES

To complete the furnishing of the sterilization room, stainless steel showcases are essential; practical and functional facilitate an orderly and efficient organization.
Tecnomed Italia proposes two models with a solid and robust stainless steel structure, smoky sliding glass and a glass central shelf. Internally the windows are illuminated by a soft blue LED light. This color helps to create a more relaxed atmosphere for operators and conveys to patients concepts of hygiene and aseptic environment. The version with paper and glove dispenser is also available. This system is designed to accommodate two boxes of gloves and a roll of paper and occupies a small space that does not affect storage capacity.



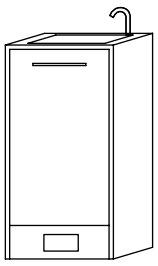


Code	Width (mm)	Depth (mm)	Height (mm)	Glove/paper dispenser	LED light
DE0097X	1000	380	480		Optional
DE0098X	1000	380	480	•	Optional

Code	Product
DE987ILX	Blue led light kit for showcase 24vdc

Sterinox Line
THE SINK ELEMENT

Made with a welded flat wire tank for maximum hygiene, the sink module is equipped with an electric foot drive for water dispensing and a thermostatic mixer placed below the sink.
Tecnomed has chosen to use a smooth steel dispenser, easy to sanitize unlike standard mixers.
The cabinet is equipped with a bag-basket and is designed to accommodate the demineralizer.
The standard over-full system has been eliminated; the upper discharge made from slits is, in fact, a bacterial source impossible to clean and sanitize. In the Sterinox sink, the eventual over-full function is carried out by an optional stainless steel tube cap available on demand.

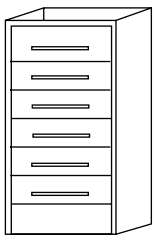


Code	Width (mm)	Depth (mm)	Height (mm)
WASHCH-ST	500	480	900
WASHCST-5	500	480	1020

Sterinox Line
DRAWER CABINET

The drawers are removable for maximum hygiene and are also equipped with sliding guides and built-in shock absorbers that allows a slow and silent closure. The drawers are provided with basins of three types (1, 2 or 4 compartments) that can be inserted regardless organizations needs of the instrument.

Code	Width (mm)	Depth (mm)	Height (mm)
DE9.36X	500	480	900
DE9.31X	500	480	1020

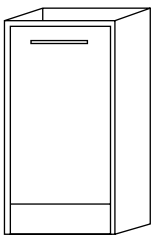


Sterinox Line
CABINET DOOR ELEMENT

Inside the cabinet with door are inserted three shelves of tempered glass, adjustable in height and extractable to ensure greater hygiene both of the shelves and the interior of the cabinet itself.

On the back of the cabinet there is an opening for the passage of the necessary connections.

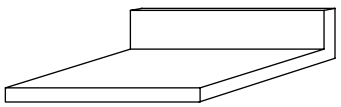
Code	Width (mm)	Depth (mm)	Height (mm)
DE9.37X	500	480	900
DE9.32X	500	480	1020



Sterinox Line
CABINET WORKTOPS

The stainless steel work top with internal structure in melamine resin , is compact and robust.
The upstand made in fold in fold and the filo top sink (If there is a sink module in the choosen composition) are two details that make it very easy to sanitize.
Tecnomed Italia proposes four standard measures; on demand a custom measure is possible.

Code	Width (mm)	Depth (mm)	Height (mm)
DE9.315.65X	500	650	30
DE9.33.65X	1000	650	30
DE9.38.65X	1500	650	30
DE9.35.65X	2000	650	30



Sterinox Line
AUTOCLAVE/THERMAL DISINFECTOR COLUMN

The Sterinox stainless steel column consists of two separate modules for smoother transport and is designed to accommodate the Thermal disinfector, the autoclave and the sealer machine.

To facilitate electrical connections and water supply, the back of the cabinet is fully open.

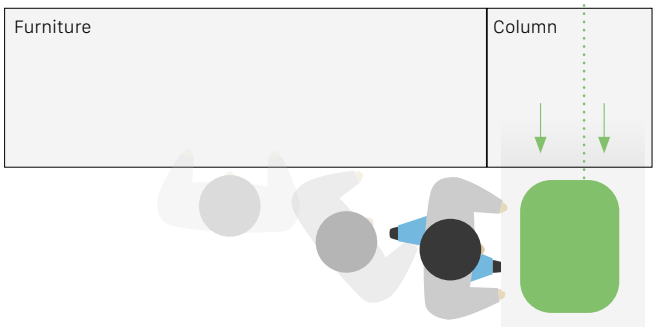
At the top of the column was obtained a wall unit 25 cm high with opening of the door to lift, This space can be used to store marginal products or the ones sporadically used.

The column must be necessarily be fixed to the wall.

Removable sealing machine shelf

The shelf for the sealing machine is removable in order to give the operator the ability to place the equipment to his right. This position allows him to proceed with the packaging activities without having to make movements.
The fully stainless steel shelf has a range of 90 kilos and is tested to withstand to force exerted by the operator on the lever of the sealing machine during the packaging phase.
If the operator prefers to place the sealing machine on the top, the shelf can still be used for the installation of different equipment with a maximum height of 40cm.

Aerial view . packaging station



Sealing machine
Ground height
About 890mm

Removable autoclave station

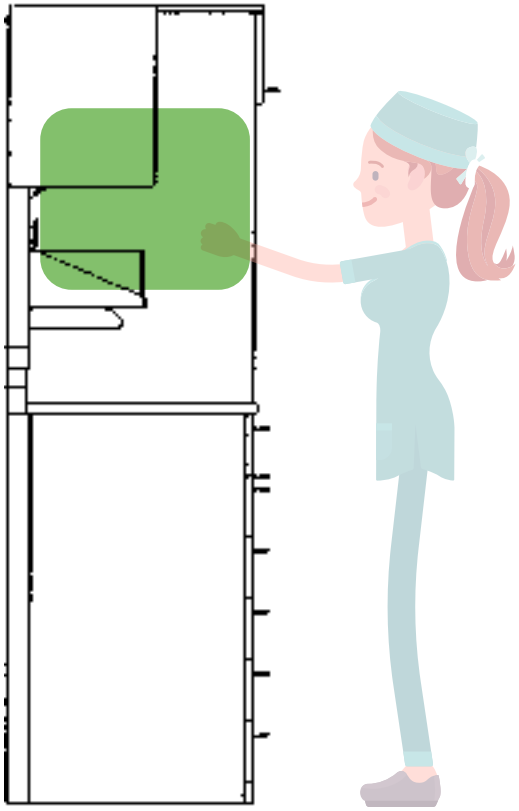
The center of the autoclaves chamber has been positioned at a height of 1,5 m. from the ground to facilitate the loading even from short figures. The fully stainless steel removable shelf has a range of 90 kg.

Space measurements

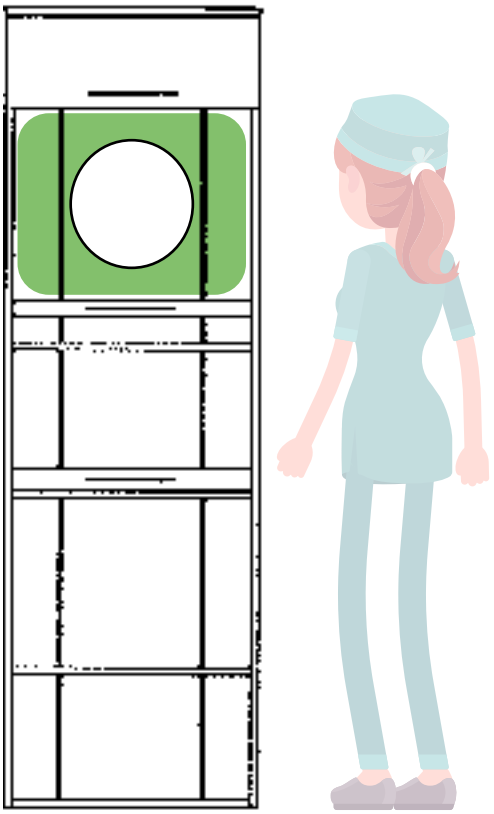
Below are the maximum measurements of the equipment spaces that the column can accommodate:

- Maximum measurements of autoclave space 620x630x500 mm
- Maximum measurements of thermal washer disinfector space 620x630x850 mm
- Maximum measurements of sealing machine space 620x630x400 mm

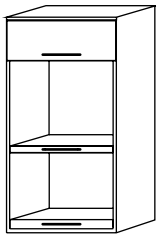
Front View



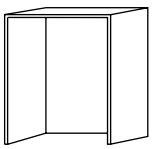
Front View



Code	Width (mm)	Depth (mm)	Height (mm)
DE9.41X	700	650	1200
DE9.41X.1	700	650	870

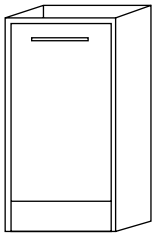


DE9.41X



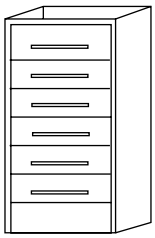
DE9.41X.1

Sterinox Line
MOODULAR CABINETS INOX



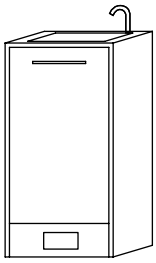
CABINET DOOR ELEMENT AND 3 GLASS SHELVES

Code	Width (mm)	Depth (mm)	Height (mm)
DE9.37X	500	480	900
DE9.32X	500	480	1020



CABINET WITH 6 DRAWERS

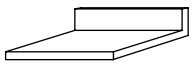
Code	Width (mm)	Depth (mm)	Height (mm)
DE9.36X	500	480	900
DE9.31X	500	480	1020



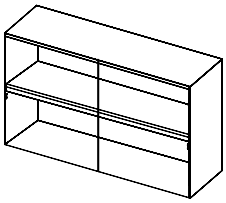
RECESSED WASHBASIN

Code	Width (mm)	Depth (mm)	Height (mm)
WASHCH-ST	500	480	900
WASHCST-5	500	480	1020

CABINET WORKTOPS



Code	Width (mm)	Depth (mm)	Height (mm)
DE9.315.65X	500	650	30
DE9.33.65X	1000	650	30
DE9.38.65X	1500	650	30
DE9.35.65X	2000	650	30



GLASS CABINET

Code	Larghezza (mm)	Profondità (mm)	Altezza (mm)	Distr.carta/guanti
DE0097X	1000	380	480	
DE0098X	1000	380	480	•

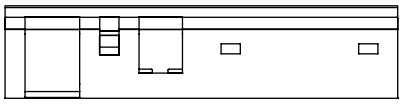
CONFIGURE YOUR STERILIZATION ROOM

STANDARD WALL RACK

Code	Width (mm)	Depth (mm)	Height (mm)
DE9.40X.15.20	1500	20	480
DE9.40X.20	2000	20	480

* In case of compositions with 900 mm high elements, the height will be 600 mm.

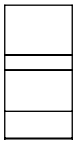
ELECTRIFIED WALL RACK



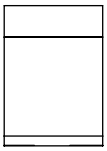
Code	Width (mm)	Depth (mm)	Height (mm)
DE9.40X.15	1500	20/50	480
DE9.40X	2000	20/50	480

* In case of compositions with 900 mm high elements, the height will be 600 mm.

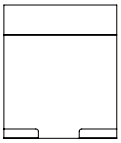
Accessori per parete elettrificata



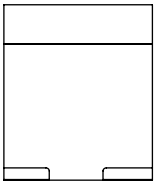
DE9.40X.4
Soap dish support stainless steel for wall rack



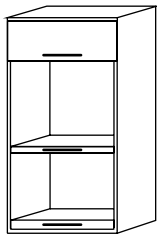
DE9.40X.3
Tablet support stainless steel for wall rack



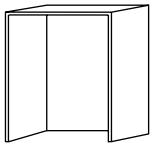
DE9.40X.5
Print support stainless steel for wall rack



DE9.40X.2
Ultrasonic cleaner (3/5 litres) support stainless steel for wall rack



DE9.41X

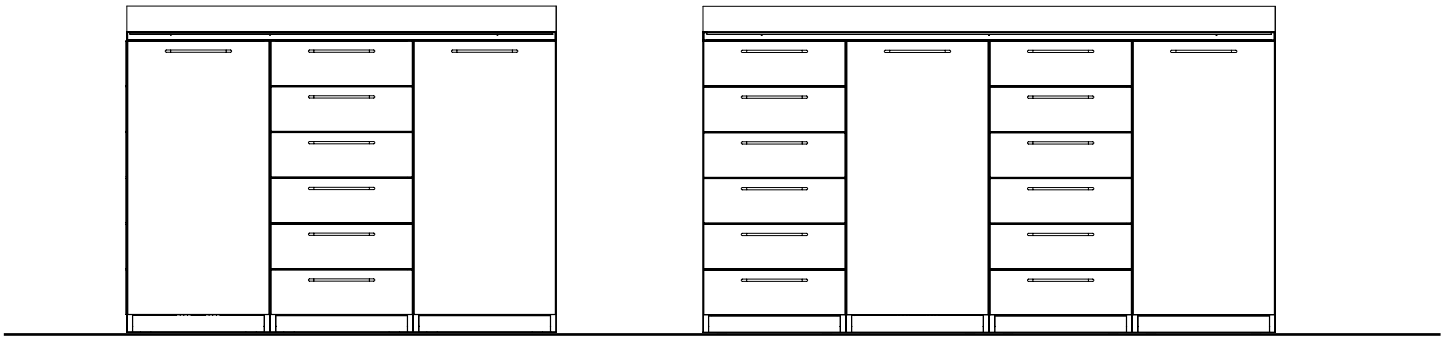


DE9.41X.1

COLUMN UNIT

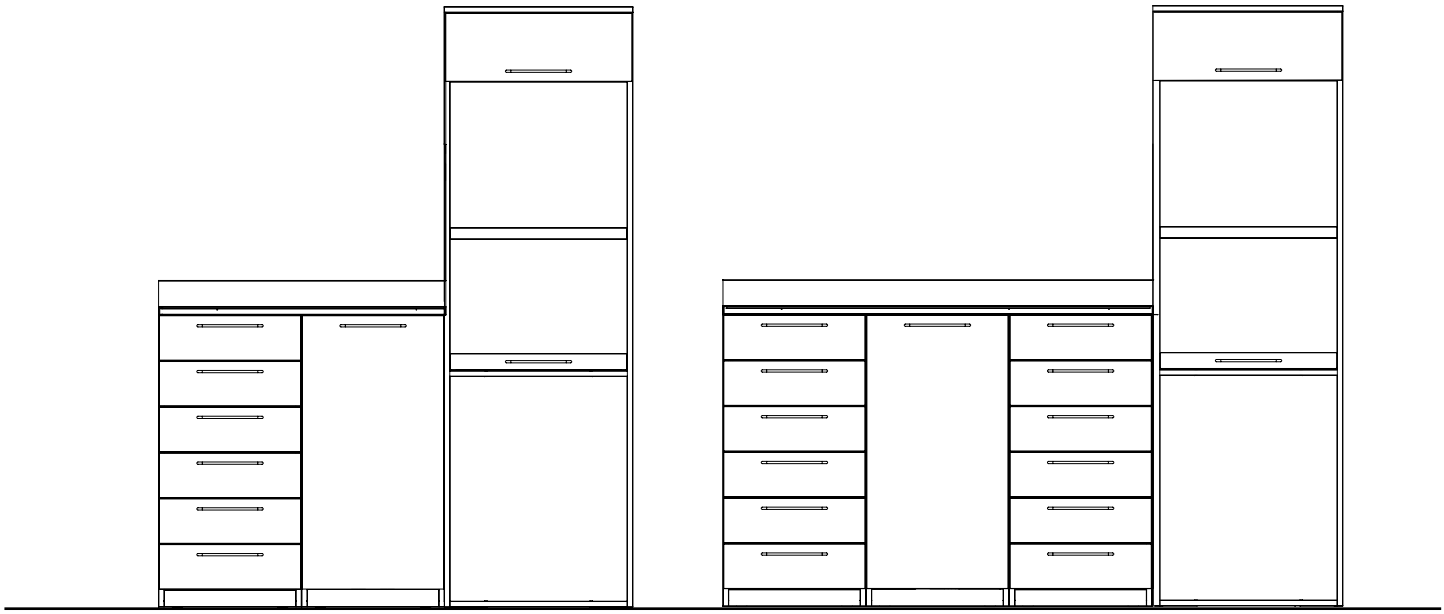
Code	Larghezza (mm)	Profondità (mm)	Altezza (mm)
DE9.41X	700	650	1200
DE9.41X.1	700	650	870

Sterinox Line
COMPOSITION EXAMPLES



DO YOU NEED A CUSTOM COMPOSITION?

CONTATTA LO SPECIALISTA



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