

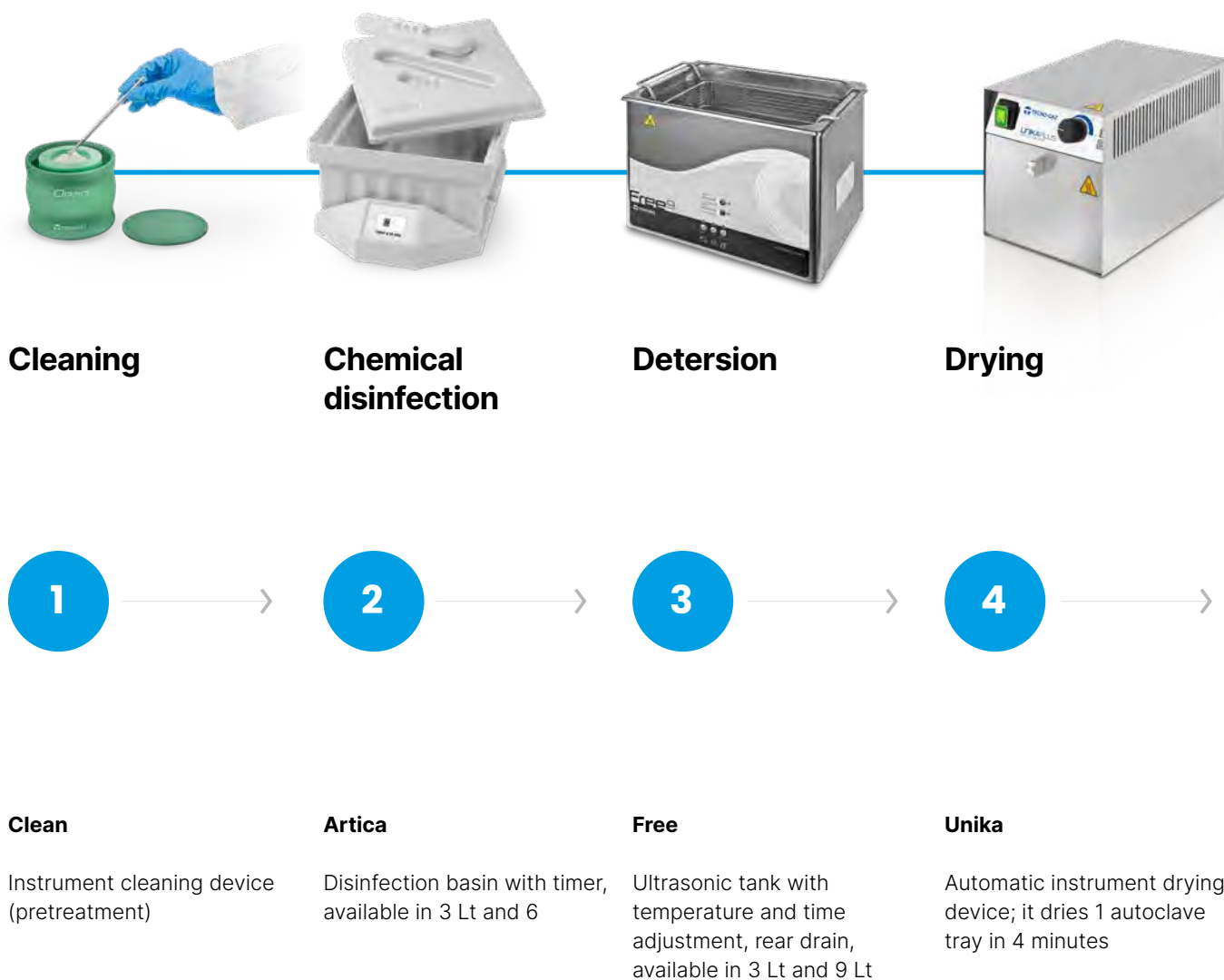


INTEGRATED SOLUTIONS FOR INSTRUMENT STERILIZATION

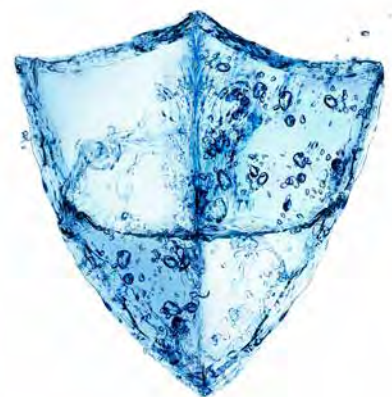
Prevention of biological risk in the dental field

INSTRUMENT STERILIZATION STANDARD CYCLE

The prevention of biological risks must be a strategic and priority project for all dental practices and health structures. Tecno-Gaz range, structured and integrated, helps in setting it up.



Tecno-Gaz produces and markets solutions to eliminate airborne infections and bacteria, and for the management of water treatment.



Packaging



One

Manual sealing machine with double preset timer: short time / long time



Traceability

Traccia

Manual traceability



Sterilization

Europa B Evo

Type B autoclaves available models: 16-20-24 lt.

Onyx B 5, 6, 7 and 8

Type B autoclaves available models: 5.0 - 6.0 - 7.0 - 8.0.

5

6

7

8

T-Paper

Envelopes and reels for sterilization

INSTRUMENT STERILIZATION

FAST CYCLE

For more than 40 years, customers have been at the heart of the development of Tecno-Gaz's sterilization range.



Cleaning



Chemical disinfection



Detercion



Thermodésinfection

1

2

Clean

Instrument cleaning device (pretreatment)

Multisteril Fast

Device that can automatically carry out all the major preparation phases for the sterilization cycle; disinfection, cleansing, rinsing, drying of instruments.

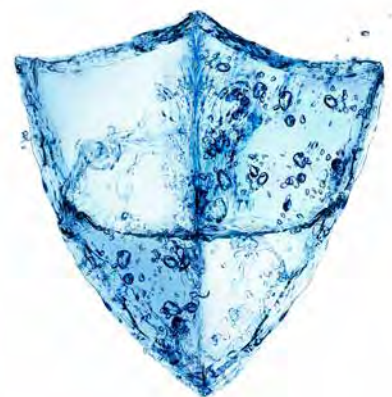
Multisteril CD

Concentrated liquid certified for Multisteril and Multisteril Fast.

Aqua Plus

Automatic thermo-disinfector available in tabletop and built-in version

Field experience is essential to design and produce effective solutions for the protection of patients and operators against the risks associated with dental care.



Packaging

Traceability

Sterilization

3

4

5

6

T-Paper

Envelopes and reels for sterilization

TecnoSeal

Automatic sealing machine
production speed 10 m/min.

TecnoPrint

Printer for traceability with
barcodes

Europa B Evo

Type B autoclaves available
models: 16-20-24 lt.

Onyx B 5, 6, 7 and 8

Type B autoclaves available
models: 5.0 - 6.0 - 7.0 - 8.0.

INSTRUMENT STERILIZATION THE EXPERIENCE



360° PATIENT AND
OPERATOR SAFETY



Instrument sterilization

Tecno-Gaz fast cycle
for sterilization of all
materials



Environmental disinfection

Air treatment and
environmental treatment,
the perfect system created by
Tecno-Gaz



Water treatment

Specific filters for water
treatment to prevent
Legionella contamination

Contamination can be transmitted by direct or indirect contact, through contaminated instruments, by their presence in the air and in water. The control of biological risk in the dental practice or in an ambulatory structure is an essential obligation, the implementation of which must be managed carefully by each professional. For more than 40 years the design, development and implementation of integrated solutions for the complete control of biological risk has been one of the pillars of Tecno-Gaz.

ARTICA DISINFECTION BASIN



Artica vessels have been expressly studied to assure simple and controlled disinfection. All vessels are equipped with integrated timer support, total lid for easy liquid substitution and partial lid for the insertion of the instruments, avoiding the leakage of odours. Artica vessels are all supplied with plastic tray, removable on demand.

Artica line is composed by two models:

- **Artica 1**, conceived for average loads, particularly suitable for surgeries.
- **Artica 2**, conceived for large loads, perfect for hospitals or big centres.

	Artica 1	Artica 2
WxHxD	335×210×240 mm	215×335×500 mm
WxHxD (support)	290×100×240 mm	100×290×240 mm
WxHxD (Plastic vessel)	330×180×145 mm	180×330×145 mm

FREE ULTRASONIC CLEANERS

Fast
Cycle



FREE 3
Ref. VU002ZVU

FREE 9
Ref. VU004ZVU

The ultrasonic basin is designed to **wash instruments used in the medical, dental, cosmetic, veterinary fields** and all sectors which require an ultrasonic washing.

Phases of the process



Heating

The device proceeds to the heating phase of the detergent. It stops automatically when the preset temperature is reached. Always consider that during the ultrasonic cleaning the temperature of the detergent tends to rise independently.



SWEEP

Ultrasounds are modulated in frequency, thus reducing the negative effects of standing waves, increasing the distribution of ultrasonic energy within the washing liquid. The cleaning is more efficient (**improved cavitation**).



Degassing (DEGAS)

The device starts activating the ultrasonic phases intermittently. This process reduces the gas dissolved in the liquid, thus improving the efficiency of the subsequent washing.



Discharge

The tub is emptied by opening the appropriate valve.



Ultrasonic cleaning

Washing phase through ultrasonic cavitation.



Accessories



Pyrex beaker (Pack 2 pcs.)



Lid and Basket for vessel



Beaker holder

	Free 3	Free 9
WxHxD	305×178×248 mm	418×268×269 mm
Absorption	250 W	510 W
Weight	4 Kg	7,4 Kg

UNIKA PLUS DRYING MACHINE

Fast
Cycle



UNIKA
Ref. 2045-S-2

Mechanical drying using a closed device is the most effective and the safest for the operator.

Unika dries up to 1 kg of instruments placed on a tray, equivalent to a sterilizer tray, in 4 minutes.

Unika

WxHxD	200×200×305 mm
Weight	4,5 kg
Tension	220V-50/60 Hz
Absorption	1 kW

1 2 3 **4** 5 6 7 8 Traditional Cycle

MUTISTERIL FAST MULTIFUNCTION TUB



MULTISTERIL FAST
Ref. VM013ZVM

365

iOTEC
YOUR BEST INTERFACE

SteamIoT

The handling of potentially infected instruments and materials is a very delicate operation and must be strictly controlled, above all for the protection of operators, without neglecting the responsibility of those who manage the safety of the staff.



MULTISTERIL FAST MULTIFUNCTION TUB



For more info
scan and click here

MULTISTERIL
FAST



25'
Fast Cycle

9 lt.
6 Liters of
usable capacity

**10
treatments**

Equivalent to the
instrumentation
consumed on
average

MULTISTERIL FAST
Ref. VM013ZVM

iOTEC
YOUR BEST INTERFACE

Cycle completed in just 25 minutes.
No device is as fast as MultiSteril Fast.

Tecno-Gaz has designed a device that automatically performs the main stages of preparation of the sterilization cycle - disinfection, cleaning, rinsing and drying - without any human intervention, without any professional risk and in very short times. A unique device essential in all sterilization rooms.



The aspects that Multisteril Fast can help you manage correctly

Assistant working hours

Assistants spend a lot of time preparing instruments for sterilization due to multiple and complex manual procedures. **Multisteril Fast does not require any human presence.**

Protocol management

Sterilization only takes place if the instrument preparation procedure is carried out correctly, otherwise the whole process is useless.

Multisteril Fast performs the whole cycle correctly.

Space saving

Space is another big issue. Indeed, sterilization rooms are often small and the rationalization of space plays an important role. **Multisteril Fast reduces everything to 40cm³.**

The risk factor

The handling of potentially infected instruments and materials is a very important risk factor and must be subject to strict controls, both for the protection of the professionals themselves and for the liability of the practice owner. **Multisteril Fast eliminates this risk.**

Certified disinfection

The first system certified by the University of Dresden which guarantees: **certified cleaning, certified disinfection, instrument integrity**

Overall costs

Cost is an important component which must be brought under control. **With Multisteril Fast every cycle costs about 2 Euros.**

Speed, security and guarantee.

Strength liquid
disinfectant / detergent



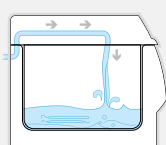
MULTISTERIL FAST MULTIFUNCTION TUB



For more info
scan and click here

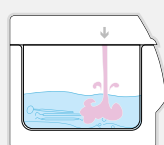


To improve cleansing, an initial standby phase has been created, which allows the tub to be filled with water and liquid detergent/disinfectant, so that the instruments sit better in the solution, ensuring perfect cleansing, even when using bi-component cements.



Water Loading

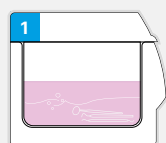
The water enters the tank **thanks to the direct connection to the mains water supply.**



Disinfectant/detergent entry and liquid activation

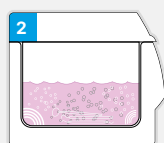
A special peristaltic pump present inside the device automatically **introduces the percentage of disinfectant/detergent previously outlined in the parameters of the cycle.**

Phases of the process



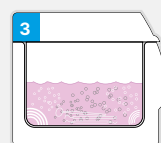
Heating

The device moves on to heating and to a **first static decontamination of the instruments.**



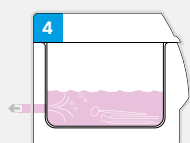
Degasification

This process eliminates the gases dissolved in the water avoiding interference with the ultrasounds and improving efficiency.



Ultrasonic wash

At the end of the degasification phase the ultrasonic cleansing begins, setting off the cavitation, which allows for the removal of chemical and organic residue present on the materials immersed in the tank, **destroying the bacterial load by more than 95%. The length of this procedure can be programmed by the operator for between 5 and 30 minutes.**



Drain

At the end of the cleansing phase, **MultiSteril automatically empties all the liquids present in the tank.** Once the tank is completely empty the following rinse phase begins.



Rinse

To remove all chemical residue from the instruments, **the rinse phase begins, taking place through the pressurised intake of water through the special nozzles in the lid.** The water taken in is then automatically removed through the mesh with a special pump that permit to make the process faster. At the end the drying phase is launched.



Drying

To guarantee a proper drying of the materials **the machine generates a flow of hot air, produced by a fan and a resistor located on the lid of the device,** which lightly touches the objects and takes away the dampness in the form of gas.



MultiSteril Fast Complete supply



Multisteril CD

Concentrated liquid certified for Multisteril and Multisteril Fast.

Standard

Multisteril 1 pc.

Optional

Ref. DM401ALP
Multisteril 6 pcs.



Accessoires



Ref. DVMA069

INSTUMENTS BASKET



Ref. DVMA072

HANDPIECES BASKET



Ref. VM801ZVM

SUPPORT FOR 2 SURGICAL TRAYS
(item code refers to support only)

	Multisteril Fast
Width	415 mm
Height	415 mm
Height dimensions with open lid	750 mm
Depth with open lid	415 mm
Weight	20 kg
Tension	220V-50/60 Hz
Absorption	1 KV

	Bac
Width	332 mm
Height	120 mm
Depth	227 mm

MULTISTERIL CD

LIQUID FOR MULTISTERIL FAST

MULTISTERIL CD
Ref. DM401ALP



The MultiSteril system is tested to achieve the maximum efficiency in terms of disinfection and cleaning.

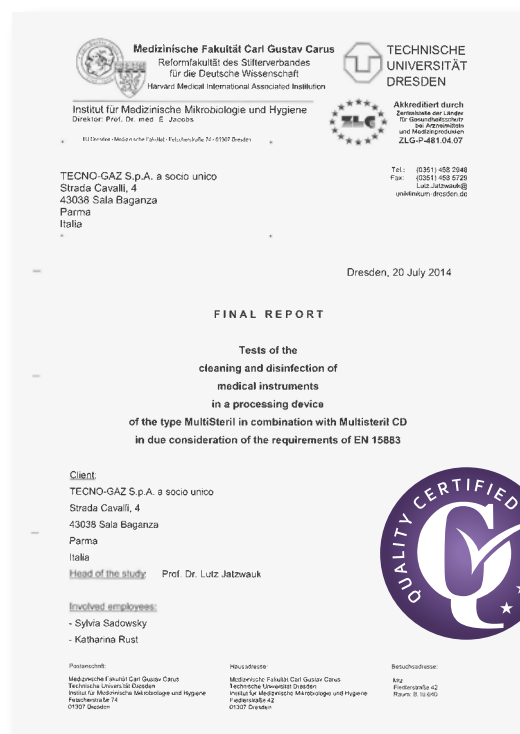
This extraordinary result is achieved if **MultiSteril CD** liquid is used, an integral part of the product and the only liquid tested with this device.

The use of other liquids excludes the possibility of achieving *high levels of bacterial load reduction*, obtaining *adequate cleaning of the instruments*, good drying and protection of the treated materials. We therefore advise to use only this tested liquid.

MultiSteril CD

Concentrated liquid for cleaning and disinfection of dental/medical instruments, does not bind proteins and is free of aldehydes, phenols and quaternary ammonium compounds (QAC), the perfect combination for the MultiSteril Fast device.

A tested security system.



Tested effectiveness

From May to July 2014, the Institute of Hygiene and Medical Microbiology of the Faculty of Medicine of the Technical University of Dresden carried out technical and microbiological tests on the combined use of the Tecno-Gaz MultiSteril multifunction basin with liquid disinfectants belonging to the Tecno-Gaz Ctrl Alt line (MultiSteril CD). The tests have shown the effectiveness of instrument cleansing and disinfection with MultiSteril used in combination with MultiSteril CD according to the requirements established by EN 15883, a European standard which sets out the specific requirements for washers-disinfectors (WDS) designed to reach the disinfection level obtainable by means of thermal cleaning and disinfection.

Multisteril

1 lt.
SUPPLIED



Ref. DM401ALP

6 pcs. x 1 lt. Pack
OPTIONAL



MultiSteril CD liquid disinfectant is sold packaged in 6 × 1 litre bottles.

MANAGEMENT OF SURGICAL CASSETTES

The role of implant surgery is constantly growing in the procedures performed by dental practices.

The sterilization cycle should allow surgical cassettes to be processed smoothly without time-consuming and disorganizing bottlenecks.



Tecno-Gaz integrated sterilization cycle allows an easy management of sterilization of surgical cassettes.

The cassette holder of the AQUA PLUS thermo-disinfector can sterilize 3, 4, 6 and 8 large cassettes per cycle (photo of cassette holder).



ONYX 6 and 7 tray holder can load 4 large DIN cassettes and 4 ¼ DIN cassettes in a single cycle (photo of support with cassettes).



THE PROCESSING OF DYNAMIC INSTRUMENTATION

All sterilization professionals now agree in demonstrating that dedicated devices that treat and lubricate before sterilization are not effective.

- Oil and water (steam) do not mix well and create emulsion.
- Oil and heat (134°C) either, the little oil remaining inside the dynamic instrument will generate combustion residues that will damage its correct operation.

We only sterilize what is clean and dry, but if oil is present in the instrument, then it is not clean.



The washing bar of 8 instruments of the thermo-disinfector AQUA PLUS will clean the instruments under pressure and then dry them in the last phase of the thermo-disinfection cycle (the hot air passes through the dedicated washing bar).



The instruments will then be sterilized in a Tecno-Gaz autoclave and lubricated before treatment with commercially available sterile oil.

AQUA PLUS THE EXCELLENCE OF THERMAL DISINFECTION

AQUA PLUS



365

AQUA Plus is a latest generation thermodisinfection system, created to be very easy to use, customizable according to the needs of each cabinet, fast and versatile by adapting to different charges. Particular attention has been paid to finding the most advanced components capable of guarantee the maximum reliability of the device and achieve an excellent result.



AQUA PLUS • Workbench version
Ref. TD010TMD

AQUA PLUS • Built-in version
Ref. TD011TMD

Full supply

Aqua Plus always comes with integrated drying system, standard baskets, holder for rotating instruments.



Drying

Perfect drying is an essential element in decision making, as users do not accept wet instruments at the end of the cycle. Aqua Plus is at the forefront in this field. Forced dynamic drying is provided by the most powerful fan on the market. All instruments are perfectly dried outside and inside. The hot air, disinfected by HEPA 14 filter, passes through the washing arms and the washing bar of rotating instruments ensuring a perfect drying even inside the handpieces. Drying time and temperature are programmable.

Maximum flexibility

Thanks to the basket provided and the wide range of accessories available, it is possible to accommodate surgical cassettes, vertical instruments, rotating instruments and small objects.

Treatment chamber

The treatment chamber is built in AISI stainless steel 304 and has a size of 65 liters.

Treatment system

The thermodisinfection cycle takes place by introducing hot water at 95 °, thanks to a system of double washing bars placed in the upper and lower part of the tank, ensuring a perfect treatment capable to remove any residue and carry out the thermal separation phase efficiently. The two rotating arms are easily removable and inspectable.



Biofilm Control

3 accessible and removable filters allow a thorough and easy interior cleaning, avoiding any residual water source of biofilm and bacteria. The patented ETS system (Empty Total System) ensures hygiene perfect from the inside of AQUA PLUS. This unique and innovative approach highlights Tecno- Gaz's conception of biohazard control down to the smallest details.



* cassettes and surgical instruments are not provided



AQUA PLUS VERSIONS

AQUA PLUS is available in a workbench or built-in version.



Width

595 mm | 595 mm

Depth with door closed

540 mm | 540 mm

Height

600 mm | 818 mm

Total weight

65 kg | 80 kg

DIMENSIONS OF THE WASHING CHAMBER

Width

415 mm | 415 mm

Depth

480 mm | 480 mm

Height

375 mm | 375 mm

Type of protection

(according to IEC 60529) IP 200

CE Marking

Medical Devices Directive 93/42/EEC, Class IIb

Average sound pressure level

<70 dB (A)

AQUA PLUS EASY CYCLES

The screen is very intuitive and a large number of parameters ensure easy operation of the device, reducing training and learning time to a few minutes. Touch screen, 3 preset programs, 1 rinsing program and 1 drying program, the selected cycle can be started without complications. A flow meter continuously monitors the dosing of liquids and informs the user when filling is necessary.



Fast Cycle 45'



Washing and disinfection of instruments with normal dirt.

Standard Cycle 60'



Washing and disinfection with additive for final rinse.

Intensive Cycle 75'



Washing and disinfection program, specific for treatment of very dirty instruments.

CYCLES

IMPORTANT CYCLE DATA	FAST	STANDARD	INTENSIVE
PREWASH	×	✓	✓
CERTIFICATION (UNI EN ISO)	15883	15883	15883
THERMO-DESINFECTION 90°C	5'	5'	5'
RINSING	1'	2'	3'
DRYING AT 125° - FILTRATION HEPA 14	10'	20'	25'
TOTAL DURATION	45'	60'	75'

Security

Safety is also a fundamental parameter and AQUA PLUS offers innovative and unique features. Door locking, password protection, continuous microprocessor control with automatic cycle interruption, water and detergent quantity control by flowmeter, independent laboratory tests, all our parameters meet the most demanding criteria of UNI ISO EN 15883 standard.

AQUA PLUS EASY TO USE

With Tecno-Gaz, sterilization has never been easier. All our devices are simple and intuitive and this new device respects this philosophy:

- **Colour touch screen**
- **Predefined cycles (5)**
- **Custom Programmed (35)**
- **Clear informative messages**
- **Cycle management is easy and controlled.**

Perfect drying is an essential element in decision making, as users do not accept wet instruments at the end of the cycle. Aqua Plus is at the forefront in this field, with highly efficient thermodynamic drying thanks to a hot air flow in the washing arms, and a unique drying solution in the rotating instrument boom allowing internal drying of the handpieces.

Dynamic instrumentation

An 8-position bar allows the internal and external disinfection of 8 turbines/counter-angles. Adapters allow the wash bar to be configured and customised to the working profile of the practice, for example only contra-angles.

Printer for cycle data

Predisposition for traceability system (100 parameters available - medical standard) RS232



Accessoires

Standard



Ref. TD806TMD

STANDARD BASKET



Ref. TD800TMD

**8 TRAYS BASKET
* MAX 2 TRAYS ON STANDARD
BASKET**



Ref. TD801TMD

**BASKET FOR VERTICAL
INSTRUMENTS**



Ref. TD807TMD

**BASKET WITH 8 POSITIONS FOR
HANDPIECES**



Ref. TD805TMD

**FINE MESH BASKET
80X80X42 MM**

Optionals



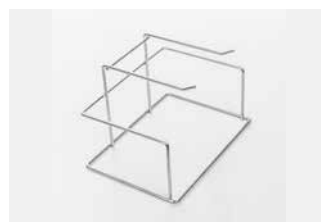
Ref. TD802TMD

3 TRAYS BASKET



Ref. TD809TMD

**TRAYS / BOXES BASKET
7 HOLDERS**



Ref. TD803TMD

**BASKET FOR
10 IMPRESSION TRAYS**



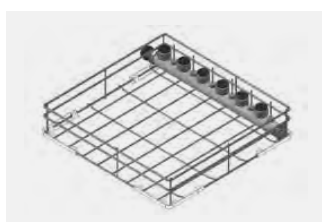
Ref. TD812TMD

**ADAPTER NOZZLE FOR
VACUUM CLEANERS**



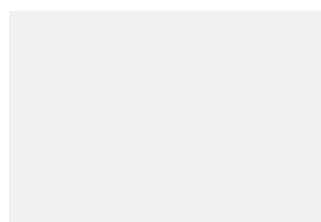
Ref. TD804TMD

**HINGED
INSTRUMENT BASKET**



Ref. TD808TMD

**WASHING BASKET EQUIPPED
WITH 6 HANDPIECE HOLDERS
+ 6 SUCTION TIPS**



Ref. TD810TMD

**BASKET FOR 10-12
GLASSES**

ONE THERMOSEALING

ONE
Ref. 2165S



ONE is a new generation sealer that has been created with the aim of reducing envelope packaging time, monitoring the quality of the welding, and is able to seal all types of paper for sterilization, including folded paper.

- Sealing band of 12 mm.
- Sealing bar 32 cm.
- Great easiness of paper introduction.
- Active electronic control over the couple of resistors.
- Visibility of the area of cutting.
- Signal of possible bad sealing.
- Introducible in any sterilizing piece of furniture.

Accessories



TecnoBar
Pouches holder



Pre-cut bags
Pre-cut bags sealed on 3 sides

One

WxHxD	460×170×400 mm
Weight	8 Kg
Max absorption	320 W
Power supply	230 V~ - 50/60 Hz
Seal width	12 mm
Seal length	320mm
Sealing speed	10 m/min.

TECNOSEAL AUTOMATIC THERMOSEALING MACHINE

For more info
scan and click here



TECNOSEAL
Ref. TA009TAU

TECNOSEAL PRINT
Ref. TA002TAU

**10m/
min**
Productivité



365

- **Automatic** photocell **feed system** (10 mt/min).
- Complete with **integrated printer**
- Automatic **printing of seal/expiry date**
- **Electronic card for control/management** of parameters of use.

Tecno Seal is a roller sealing machine with photocell automatic feed. Tecno Seal could be equipped with built-in printer to **print on pouches packaging and expiry dates** as well as symbols during the sealing phase. This solution allows to have constant control on the state of sterility of instruments. On one side of the machine there is an electronic control that allows the management of the parameters of sealing.

Accessories



TecnoEasy

Rolls holder



TecnoBar

Pouches holder



Pre-cut bags

Pre-cut bags sealed on 3 sides

TecnoSeal

WxHxD	555×250×145 mm
Weight	14 Kg
Max. absorption	500 W
Power supply	230 V~ - 50/60 Hz
Seal width	12 mm
Seal length	Continue unlimited
Sealing speed	10 m/min.
Sealing temperature	max. 220°C



PURA OSMOSIS SYSTEM

PURA • Ref. OI001NPU

Can be connected to Europa B Evo range

PURA PLUS • Ref. OI002NPU

Can be connected to Oxyx B range, Europa B Evo range



Pura Plus osmosis system is extremely compact and it's designed for connection directly to the autoclave, to guarantee a constant supply of pure water. The system can be installed in a number of positions to facilitate mounting and the optimum organisation of the available space. **Pura Plus is fitted with a series of osmotic membranes and filters**, with an average duration of about 800 cycles, depending on the original hardness of the water. The cartridge should therefore need replacing about once a year, or after 800 cycles. **The overall cost of the filters is very reasonable, and the cost per litre is therefore almost negligible.** When the Pura Plus system is not producing water, it is not pressurized, and this avoids all kinds of problems caused by the accidental breakage of couplings and fitting.

Why a reverse osmosis system for autoclave?

The osmosis system is recognised as the best method, ensuring treated water free from impurities and hard particles in order to protect the workings of the autoclave. The system allows for a direct connection with the autoclave, ensuring service and a reduction in costs relating to the purchase of distilled water.

Pura - Pura Plus

WxHxD	360×460×190 mm
Weight	3,5 Kg
Power supply	230V~ - 50 Hz mm
Absorption	10 W

DISTILLER WATER PURIFICATION SYSTEM

Productivity

4l/6h



DISTILLER
Ref. 250S2

Devices for supplying autoclaves

This is a simple, safe and rational system that ensures optimum quality distilled water, thanks to a boiling procedure with forced recondensation.

The use of Distiller will avoid the purchase and storage of cumbersome water barrels. Distiller is supplied complete with accessories, filters and other equipment.

Distiller

Diameter x Height	200 × 300 mm
Weight	3,8 Kg
Power supply	230V~ - 50 Hz mm
Productivity	4 lt. / 6 h
Absorption	580 W

ONYX B IOT AUTOCLAVES



365

iOTEC
YOUR BEST INTERFACE

*Seulement ONYX 6

SteamIoT

*Seulement ONYX 6



ONYXB 5.0
Ref. AB015ZXY



ONYXB 7.0
Ref. AB012ZXZ



ONYXB 6
Ref. AB027ZXZ

Autoclave is the key device within each dental practice , therefore it is fundamental choosing a well-known and referenced product which can rely on a widespread network of technical support. Onyx B is the new range of Tecno-Gaz autoclaves, a world leading Company for many years. It is important to be able to choose a referenced device, distributed by a solid network and supported by a national technical team.





**Double charge...
same time. A cycle
for every requirement.
Better instrumentation
management.
Considerable electrical
savings.**

5Kg

ONYXB 5.0
Ref. AB015ZXY



7Kg

ONYXB 7.0
Ref. AB012ZXZ

6Kg

ONYXB 6.0
Ref. AB027ZXZ



For more info
scan and click here

ONYX B 6

IT'S TIME FOR INNOVATION



+20%

4 or 5 trays

Circular tray holder with two or three wider trays in the center

Capacity increased by 20%

Large loading capacity for surgical and examination cassettes

ONYX 6 is mainly characterized by its compact dimensions: with a depth of 60 cm, it can be placed very close to the wall thanks to the **lateral ventilation systems**. Thus, it can easily be placed on standard 60 cm furniture.

LOAD

20%

CONTAINED DIMENSIONS

60 cm

PREHEATING



Increased capacity

A compact design, but with 20% more load thanks to the new five-element circular tray holder including 3 wider central trays.

Easy mode settings

New assisted door calibration system. Simple and precise settings adjustment.

Energy saving

The preheating and temperature maintenance system ensures shorter cycle times and lower power consumption.



Subscribing to the STEAM IOT portal provides many benefits:

1. User-owned connected devices
2. User-owned connected devices:
 - Digital receipt (cycle number, T1, T2, P1, time, serial number)
 - Data acquisition from SD card
 - Printing of an encrypted PDF receipt
3. Data backup for 10 years.
4. User interface with daily calendar with possibility to visualize the list of cycles.

ONYX 6 is an autoclave with IOT interface that allows real-time saving of sterilization cycle data and easy viewing by activating the IOT license on our portall. **You will benefit from many other advantages such as online assistance, access to documentation and videos.**

Compact design, but with 20% more load capacity thanks to the new 5-element tray holder

60 cm

60 cm depth (+ door curve)

Corresponds to the dimensions of the worktops

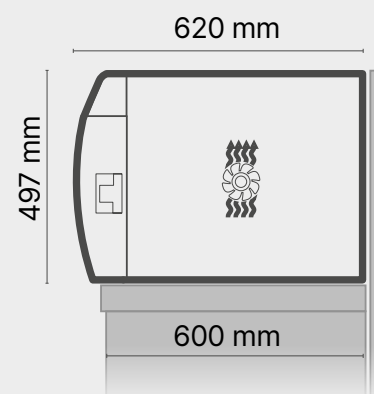


4 DIN cassettes 290×184×34 mm
2 DIN 1/4 cassettes 72×184×34 mm

* DIN cassette are not supplied by Tecno-Gaz



3 trays 380×17×210 mm
2 trays 380×17×185 mm

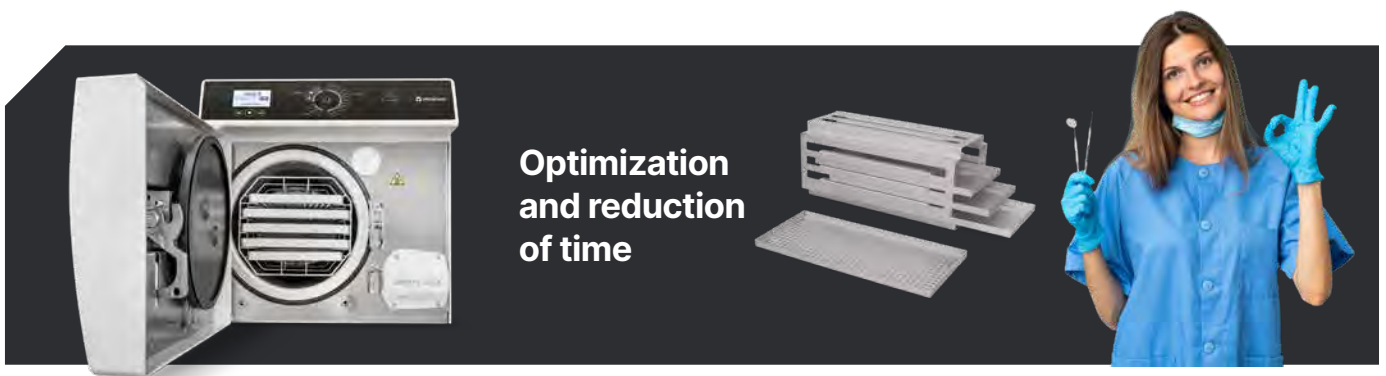


ONYX B OPTIMIZATION AND REDUCTION OF TIME



Big load

New regulations and new sterilization concept have developed sterilization practice in all medical and dental facilities along with wider range of instruments and spread of professional facilities which developed the need of autoclaves able to sterilize large loads. Onyx project is born with the aim to satisfy these need adopting specific and new solutions enabling to manage easily also partial loads.



Better instrumentation management

Having a high-load autoclave helps smoothing the flow of instrumentation and effectively increases your organization. Efficiency also means gains. Onyx B brings you these answers.

Energy saving

Onyx B guarantees the lowest energy consumption on the market and an unbeatable consumption/charge ratio. Energy saving + eco-responsible behavior = preservation of the environment. 650W per cycle



Full Load System

To avoid manual loads with possibility of water pouring off, Onyx B autoclaves throughout their automatic clean water tank automatic system are using a level sensor control pump with automatic lock. Frontal loading, no opening cover or removing system, enabling simple placement of the machine.



P.I.D. patented System

P.I.D. means Proportional Integral Derivate and represents the apex of closed loop controls. The structure of this technologically advanced control is simple and flexible. P.I.D. ensures a constant control and monitoring of the whole operating system of the autoclave, acting automatically in case of anomalies or incorrect values in technical and electronic parameters. This device behaves like a “real technician” with real-time diagnostic and intervention capability. This solution reduces anomalies and warnings, granting maximum reliability and minimising the machine inactivity times.



SD Card

SD CARD system allows constant machine updating by a simple download on it and then by inserting it into the autoclave system. An extraordinary option in order to have constantly efficient and updated device.

ONYX B

STERILIZATION CYCLES



7 sterilization cycles

Onyx B is born with the aim of rationalizing the work of sterilization operators, therefore the autoclaves are equipped with cycles which have been expressly conceived for improving time management and operator's needs within outpatient clinics.

Completely automatic cycles

All the cycles are completely automatic, all the phases are managed by the advanced card equipped with powerful microprocessor. Each and every phase (vacuum phase, preheating, exposure time, drying) is monitored, backed up and managed automatically. There is no human involvement in the carrying out of the cycles.

ID system

Authentication integrated system of the operator which is protected by password and permits at the end of the cycle to associate operator to sterilized load having visual convalidation of the operator himself. The same authentication is also reported by the procedure of load traceability.

Inspectionable tanks

In case of insertion of unsuitable liquids, autoclave tanks are inspectionable and cleanable as per technical normative regulations. Onyx B autoclaves are supplied with pure and used water tanks. Each tank is supplied with probes indicating levels.

PHD System

Preheating system with stand-by for minimum temperature maintenance and consequent overall sterilization cycles time reduction.

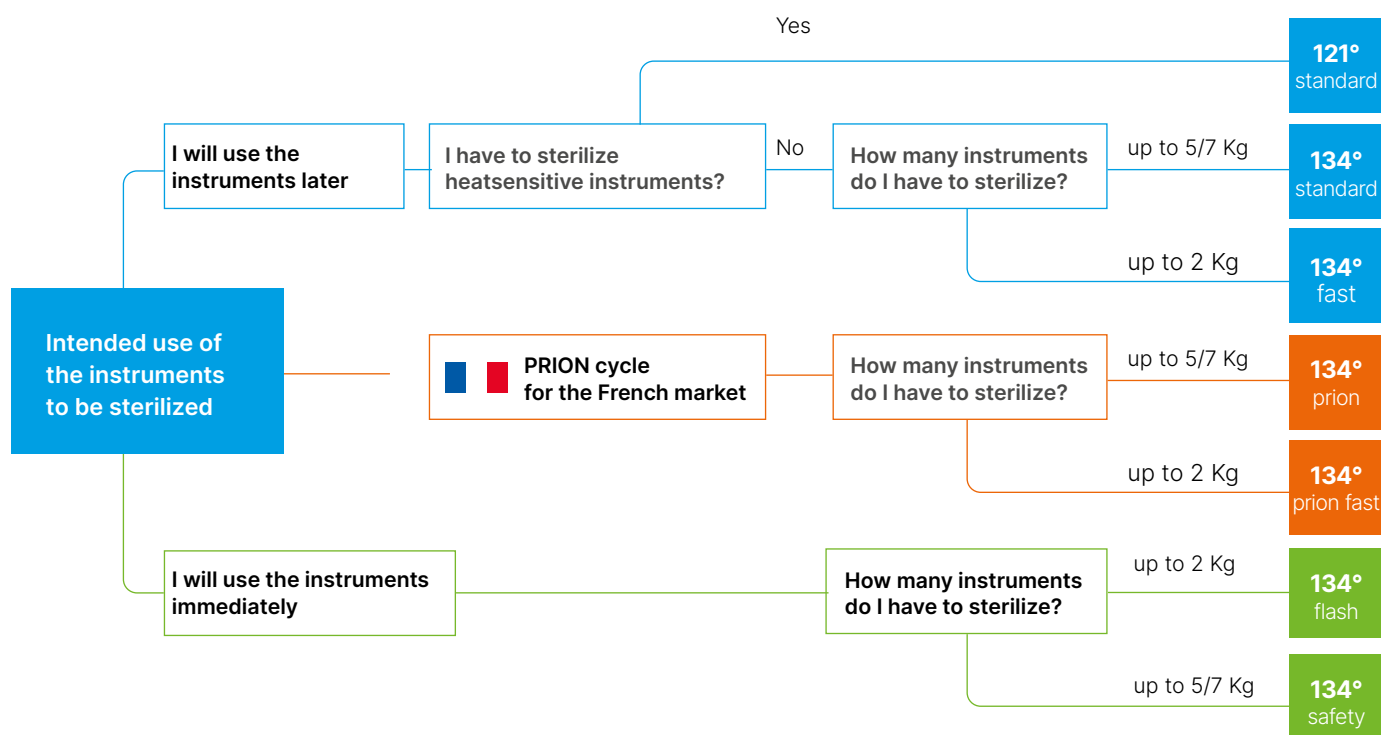
Reduced maintenance

Onyx B autoclaves allow you to make big loads thus reducing the number of cycles. This means extending autoclave life over 50% reducing maintenance costs and amortizing the cost of the product over the time.

Overnight cycles

Automatic overnight cycles with anti-condensation system and automatic switch off.

The correct cycle for each requirement



Technical data

	ONYX 5.0	ONYX 6.0	ONYX 7.0
WxHxD (mm)	474×495×650	474×497×600	474×497×720
Weight	60 Kg	64 Kg	64 Kg
Power supply	230 V - 50/60 HZ	230 V - 50/60 HZ	230 V - 50/60 HZ
Absorption	1,5 kW	2,2 kW	2,2 kW

Chamber dimensions

	ONYX 5.0	ONYX 6.0	ONYX 7.0
Diameter	Ø 245 mm	Ø 245 mm	Ø 245 mm
Depth	320 mm	430 mm	460 mm

EUROPA B EVO IOT AUTOCLAVES



EUROPA B EVO



B EVO • Ref. 2033S2
B EVO24 • Ref. STGA099

Europa B Evo is an autoclave that has been developed jointly by the Tecno-Gaz research office and important external development facilities. **Europa B Evo is indispensable for all medical and dental facilities and in all fields where safe sterilization of all materials is required: hollow, porous, solid, wrapped and unwrapped.** Europa B Evo continues the success that Tecno-Gaz has achieved over the years, in fact, thousands of professionals use Tecno-Gaz autoclaves and are very satisfied. Europa B Evo is the historic Tecno-Gaz autoclave, sold in thousands of units, and acclaimed for its reliability.



Safety on the door

We have applied three safety devices on the autoclave door:

- **The first device is a mechanic and electromagnetic one:** it triggers when the sterilization cycle begins and completely blocks the door opening. This device can be removed at the end of the cycle by pushing the device-unlocking button, but only if positive pressure is near zero.
- **The second device is an electrical one:** it triggers automatically when an attempt to force the door open is detected.
- **The third device is dynamic** and acts on the structure of the gasket.



Safety devices

- Certified **safety valve**.
- **Ped on sterilization chambers**.
- **Insulation of the chamber** with certified ceramic material.

P.I.D. System

P.I.D. means Proportional Integral Derivate and represents the apex of closed loop controls. The structure of this technologically advanced control is simple and flexible. **P.I.D. ensures a constant control and monitoring of the whole operating system of the autoclave, acting automatically in case of anomalies or incorrect values in technical and electronic parameters.** This device behaves like a “real technician” with real-time diagnostic and intervention capability. This solution reduces anomalies and warnings, granting maximum reliability and minimising the machine inactivity times.

STERILIZATION CYCLES

KEYWORD: SIMPLICITY



Barometric alignment

Automatic barometric alignment is provided from the first time the device is switched on, without any technical intervention.



Overnight cycles

Automatic overnight cycles with anti-condensing system and automatic switch-off, with memory effect.



Reduced maintenance

All sterilization cycles have an automatic function called Fast Cycle which, in the absence of an operator, **triggers an anti-condensation phase and automatic shutdown at the end of the cycle**. This technology avoids the formation of condensation ensuring a **perfect drying**, reduces energy consumption and secures the appliance.



Completely automatic cycles

All the cycles are completely automatic, all the phases are managed by the advanced card equipped with powerful microprocessor. Each and every phase (vacuum phase, preheating, exposure time, drying) is monitored, backed up and managed automatically. There is no human involvement in the carrying out of the cycles.



All cycles provide sterilization of loads B

All sterilization cycles, including the FLASH cycle, have the **fractionated vacuum system that guarantees the perfect sterilization of all materials**, including hollow and porous bodies.



Test cycles

All autoclaves are equipped with **test cycles for the periodic control of the equipment**, using physical, chemical and functional systems.

- **Helix test cycle** to assess the ability to extract air pockets in hollow bodies
- **Bowie&Dick cycle** to evaluate the vacuum capacity in porous bodies.
- **Vacuum test** to assess vacuum holding capacity.



Provision for mains water supply

The osmosis system mod. **Pura** is an extremely compact piece of equipment for osmosis, created to be directly connected to the autoclave, **guaranteeing a constant supply**.



Built-in printer

Built-in printer for the **registration of cycles carried out**. The printer includes:

- date, time
- cycle number
- serial number of the device
- minute by minute cycle data
- outcome of the cycle.



A parameter of great importance in the choice of an autoclave is related to the quantity of load that the device can sterilize.



porous materials
max 1,5 kg

4,5Kg

EUROPA B EVO
Ref. 2033S2



porous materials
max 2 kg

6Kg

EUROPA B EVO 24
Ref. STGA099

	Europa B Evo	Europa B Evo 24
Dimensions	510 (W) x 390 (H) x 600 (D) mm	510 (W) x 390 (H) x 740 (D) mm
Weight	54 kg	58 kg
Power supply	230 V - 50/60 HZ	230 V - 50/60 HZ
Absorption	1,5 kW	2,2 kW
Chamber diameter	Ø 245 mm	Ø 245 mm
Chamber depth	320 mm	500 mm

	Europa B Evo Europa B Evo24	Operating cycles	Europa B Evo Europa B Evo24
Built-in printer	✓	134°C Valid for free and packaged materials	✓
Manual locking	✓	121°C Valid for free and packaged materials	✓
Provision for Pura deionizer Pura Plus	✓	134°C Flash	✓
Overnight cycle	✓	134°C Prion	✓
PID system	✓	Test de vide	✓
Automatic barometric alignment	✓	Test Helix / Bowie & Dick Test	✓

STERILIZATION TESTS



Bowie&Dick

Biological control test for autoclaves

What are these used for?

Physical test, only suitable for autoclaves that are able to sterilize porous loads. It is used to assess the ability of steam penetration in porous bodies. Requires the use of spores in phials and a biological incubator.

Frequency

Recommended every 30 days.

BOWIE&DICK (20 PCS)

Ref. TS001BED

Steamplus et Vaporline

Chemical integrators

What are these used for?

Tests suitable for all types of autoclaves. They are used to assess the ability of colour change in the autoclaves through the parameters of the machine time temperature - pressure.

Frequency

Recommended once a day.

STEAMPLUS (100 PCS)

Ref. 216S

VAPORLINE (250 PCS)

Ref. 200/S

Helix Test

Physical test for autoclaves that sterilize hollow bodies

What are these used for?

It is used to assess the ability of steam penetration in hollow bodies.

Frequency

Recommended every 30 days.

HELIX TEST (50 STRIP)

Ref. TS001ZHT

B TEST PLUS BIOLOGICAL INCUBATOR

20
PCS.



20
PCS.



Biological control test for autoclaves

3 phial biological incubator, with spy operation and master switch, connected to mains electricity, 220 V~.

Our biological incubator is a product developed for the incubation of biological indicators. The incubator consists in a frame, an ABS cover, an aluminium heating unit with 3 slots for test tubes/biological indicators and an electronic card for automatic control of heating unit temperature.

What are these used for?

This can be used by all those who own an autoclave.

Why choose a Tecno-Gaz incubator?

Because they are certified incubators.

B TEST PLUS
Ref. 2035TS

Spores

BIOLOGICAL TEST

What are these used for?

Biological test suitable for all types of steam autoclaves. It is used to assess the ability of the autoclave to destroy all micro-organisms including spores. **Requires the use of spores in phials and a biological incubator.**

Frequency

Recommended every 30 days.

PACK OF 20 SPORE PHIALS
Ref. TS002ZBK

T-PAPER

POUCHES AND REELS FOR STERILIZATION



1 2 3 4 5 **6** 7 8 Traditional Cycle

1 2 3 **4** 5 6 Fast Cycle

Tecno-Gaz proposes a complete range of sterilization pouches and reels called T-paper. These devices are designed for hospital, medical, dental, cosmetic, veterinary and podology uses and, in general, for all the personnel that carries out steam or gas sterilization processes.

Standard paper

Reel Length	200 mt. standard 100 mt. (on demand)
Colour of plastic material	green standard blue (on demand)
gr/m2	60 gr/m2 70 gr m2 (on demand)

Sterilization reels 200 mt

mm	Pcs./pack	Ref.
55 (x200 mt.)	8	Ref. CS002Z01
75 (x200 mt.)	8	Ref. CS003Z01
100 (x200 mt.)	4	Ref. CS004Z01
150 (x200 mt.)	4	Ref. CS005Z01
200 (x200 mt.)	2	Ref. CS006Z01
250 (x200 mt.)	2	Ref. CS007Z01
300 (x200 mt.)	2	Ref. CS008Z01
400 (x200 mt.)	1	Ref. CS015Z01

Self-sealing bags

Film length	Pcs./pack	Ref.
90×230 mm	200	Ref. CS011Z01
140×260 mm	200	Ref. CS012Z01
190×330 mm	200	Ref. CS013Z01
300×420 mm	200	Ref. CS014Z01

TECNOPRINT TRACKING SYSTEMS



Printer for traceability with barcodes (compatible with commercial scanners). It is compatible and programmable directly from the menu of autoclaves ONYX B.

Forms especially designed to record sterilization cycles.



TECNOPRINT
Ref. 2110S

STERILAIR PRO AIR STERILIZATION

STERILAIR
PRO



365



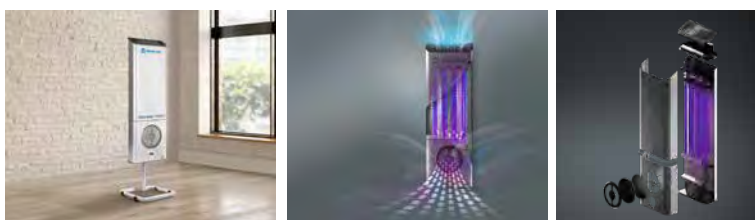
Considerably reducing
the potential contamination of
operators and patients



Having a **bacteriologically
safe** environment

Dust filter for primary
purification from
coarse pollutants

Protect your professional reputation by protecting your health and that of your employees and patients. SterilAir PRO is the first system dedicated exclusively to biological air treatment. Boasting an innovative design, SterilAir PRO overcomes the problems of direct and indirect exposure to short wavelength ultraviolet rays (UVC 254 nm) and can be used continuously even in the presence of people, without any risk to the latter. **The most effective means for destroying microorganisms in the air.**



For more info
scan and click here

9.000 hours

LAMP LIFE

The device works on the basis of a closed-loop, forced ventilation system. The air sucked in by SterilAir PRO first passes through a dust filter located in the intake, which stops the coarsest pollutants and preserves the integrity of the lamps, giving the air an initial purification. The air then enters the irradiation chamber in direct contact with the 4 mercury vapour tubes which, thanks to the emission of UV-C radiation, carry out maximum germicidal action. The air is expelled from the outlet nozzle thus carrying out microbiological abatement.

120 m³/h

HIGH TREATMENT CAPACITY

The great advantage consists in the absolute lack of danger for the operator since there is the minimum emission of UV-C radiations from the unit. The device can effectuate a continuous air disinfection treatment (120 m³/h). It's possible to carry out a demolition of microbiologic pollution of the air in every room, during every productive phase without any damage for operator's health. After about three hours from installation 90% of demolition of bacterial charge in the air.

Sterilair PRO Sterilair PRO

wall mounted stand mount support

WxHxD	270×820×110 mm	330×1070×280 mm
Weight	12,5 Kg	15 kg
Type of operation	continuous	
Flow rate	120 m ³ /h	
Lamps	n. 4 tubes UV-C 25W G13T8 (7 W UVGI)	
Productivity	10 m/min.	10 m/min.
Operating temperature	max. 220°C	max. 220°C

Wavelength	253,7 nm
Ultraviolet Energy	69 µW/cm ² at 1 m (per lamp)
External UV-C emission	none
Noise level	32 dB
Lamp life	9000 hours (1 year: 24 hours)

DISPOSITIF STERILAIR PRO WALL MOUNTED

Ref. SA210ZSA



STAND FOR STERILAIR PRO OPTIONAL

Ref. SA002ZSA



SMART TROLLEY EVO

POST OPERATIVE TROLLEY



Shelf with handle

First drawer with 9 lt stainless steel tub and lid

Second drawer with large waste bin and dedicated space for inserting needle holder

To reduce the time spent and streamline the management of waste and contaminated material, we have developed the Smart Postoperative Trolley.

Post-operative Smart Trolley, thanks to its built-in decontamination tank and the collection compartments is the hub for collecting and sorting of infected material.

- Separate collection of used and potentially contaminated single-use products
- Pre-disinfection immersion of used instruments and surgical trays
- Optimisation of clinic flow thanks to the sensation of perfection transmitted to the patient
- Perfect management of instrument flows and optimisation of surgical room availability.

Mobile cart for the treatment of hazardous waste and dirty instruments



9 litre tank for disinfectant solution

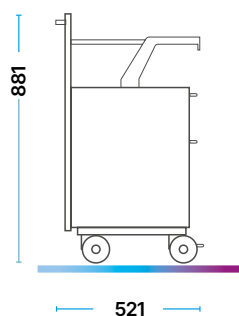
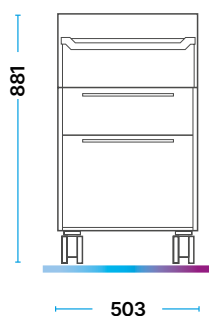
Immediate pre-disinfection of instruments and surgical trays used. Functional effectiveness

Recycling and separate recycling bin

Elimination of potentially contaminated disposable products.

9 litre tank and separate bins

Progressive and simultaneous removal of contaminated instruments used in surgery. Easy preparation of the room for the next surgery.



SMART TROLLEY POSTOPERATIVE Ref. MO032STY

FIRST DRAWER
With 9lt stainless steel tank and lid
SECOND DRAWER
with large waste bin and dedicated space for inserting needle holder

INTERFACE SERVICES



One application for many benefits.

Consumers are increasingly demanding and careful about their choices, especially after the difficult period following the Covid-19 pandemic. Digital technology has become the cornerstone of new consumer habits.

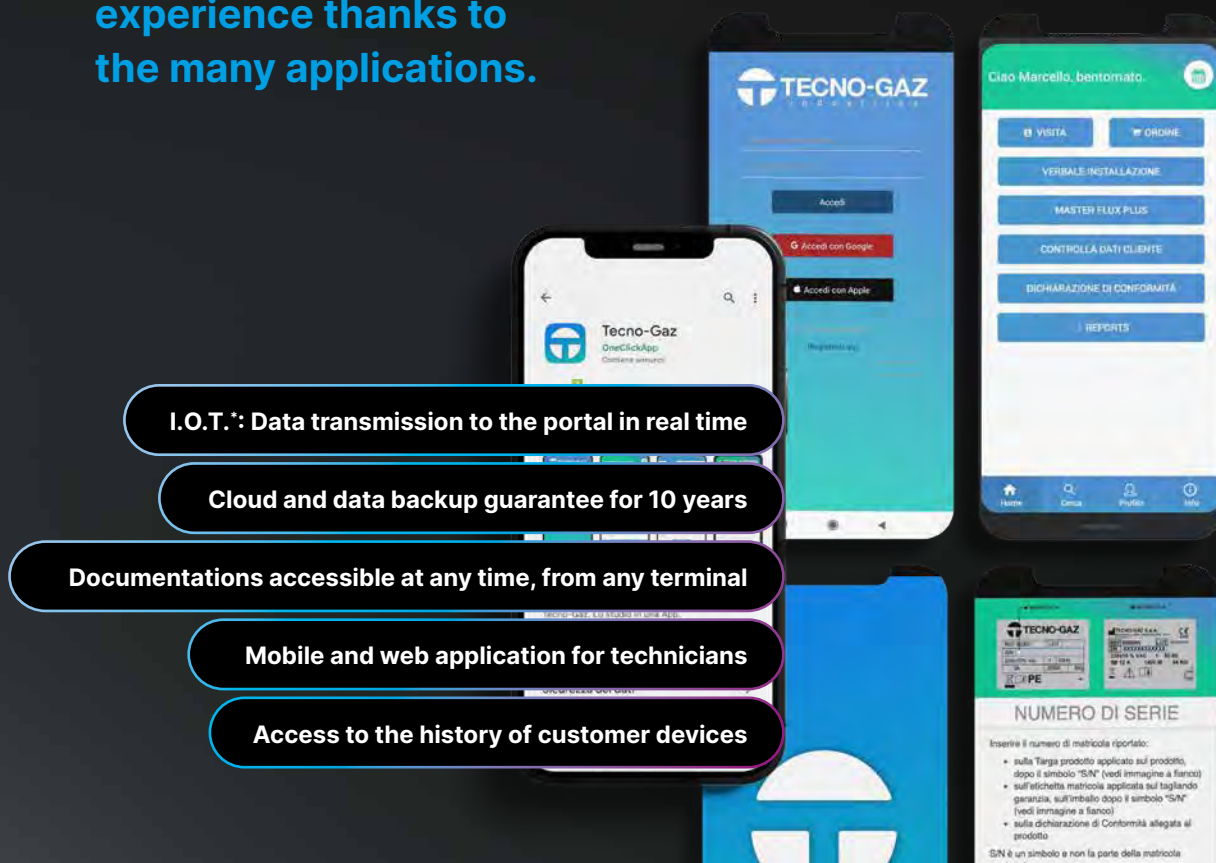
This is why companies must:

- Rethink the way they communicate with consumers, paying particular attention to the ease of access to the various contact methods

- Invest in the customer experience to maximise contact opportunities.

Connected devices and consumers' use of all digital tools are changing the way businesses operate. Previously, contact between a company and its customers was based on face-to-face or telephone interactions. Today, contact is made through many differentiated channels, so companies need to ensure that their customer service capabilities are always up to scratch.

A positive customer experience thanks to the many applications.



I.O.T.*: Data transmission to the portal in real time

Cloud and data backup guarantee for 10 years

Documentations accessible at any time, from any terminal

Mobile and web application for technicians

Access to the history of customer devices

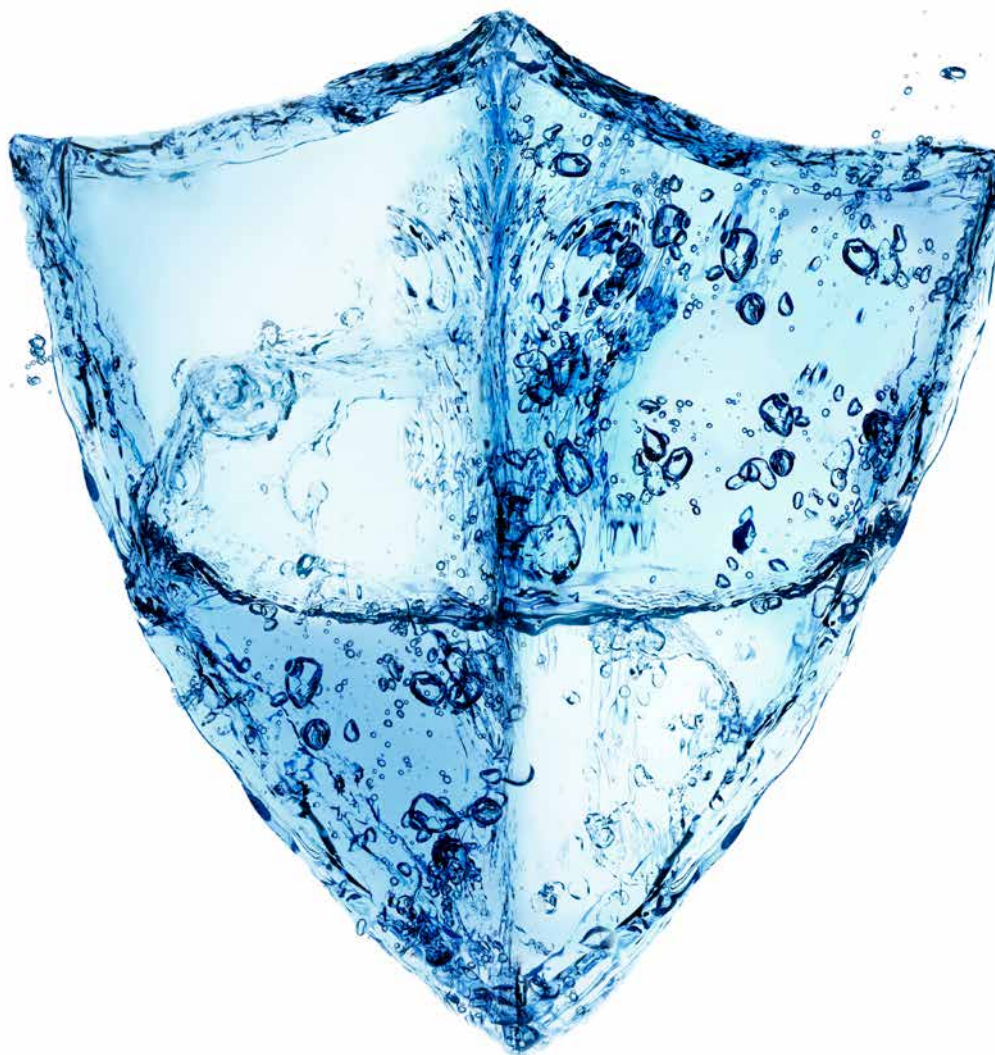
Advantages.

One of the benefits of the IoT* connection for the relationship between the company and the customer is **continuous monitoring and traceability of the relationship.**

In addition, there are ad hoc applications that allow the user a more inclusive experience related to the use of data and tools.

Any user who has purchased a Tecno-Gaz appliance will be able to register the appliance's warranty and access the My Tecno-Gaz portal where they will be able to view all of their devices, and access technical support to consult available information, user manuals and help videos, open a service ticket, or track the progress of their request, for example.





Sterilization



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