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Medical Line

For the medical professionals

2° Edition



TECNO-GAZ

i n d u s t r i e s



Summary

Reanimation:

- Resuscitation bags and masks

Biological Risk:

- Instrument sterilization
- Air sterilization
- Water sterilization

First Aid:

- Diagnosis
- Oxygen therapy
- Defibrillation

Lighting:

- Conventional lighting
- LED Vision
- Slim

Various - surgery:

- Medical chair, bridging table and trolley
- X-ray view boxes

Surgical suction units:

- Surgical suction units Tecno

Quality and reliability.

■ Tecno-Gaz for medical professionals

Tecno-Gaz S.p.A. operates in a number of different fields with a strong tendency towards, and specialization in, the world of medicine, focusing on the production of equipment and devices to improve the operational practices of professionals in the field through innovative solutions and products.

For more than 30 years we have been setting ourselves the goal of finding more and more appropriate solutions to the **demands** of doctors and those who work with them, as well as creating products that guarantee **safety and performance** and can contribute towards improving **professional qualities**.



Quality&Know-How
Made in Italy

Headquarter Tecno-Gaz

Production division



TECNO-GAZ
Group

True professionals

Style and sales instruments are a model for every company, and no-one can compete with the **Tecno-Gaz Project**. We are, in fact, the only company to have developed an **Information and Cultural Project** that, along with a pool of professionals, tackles judicial, legal, insurance and procedural issues. A global consultancy with the objective of helping all professionals with their obligation of professional diligence, demonstrating that **Tecno-Gaz S.p.A. is a company with ideas, logic and objectives that are committed to service and to supporting the industry.** Tecno-Gaz S.p.A. makes available **Special Updates, Publications, Protocols, DVDs and information and training CDs.**



Tecno-Gaz in the world

For more than 10 years we are exporting all over the world thanks to all necessary certifications which enable Tecno-Gaz S.p.A to be a leader on international market too.

North America
Partnerships with
local businesses

Europe
Constant presence since
1995 with different
distribution channels

Far East
Public contracts
and tenders awarded
starting from 1993

Middle East
Constant presence since
1995 with different
distribution channels

Australia
Constant presence
since 1995 with different
distribution channels



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Contacts



FOR INFORMATION AND PURCHASES



Information request

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Technical office: tp@tecnogaz.com



Smart-Phone direct links

Call
Tecno-Gaz



Send a mail to
Tecno-Gaz



Tecno-Gaz
business card



What is this code?

Is called **QR-Code** and allows you to obtain more info about the item that interests you. With a last generation phone equipped with web access and special software available free of charge you can use QR-Code. Just frame and snap! You will be connected directly to the web page of the product, with brochure, video and useful info.

* the cost of web access is based on your phone contract



Frame and click! Use your mobile phone to get more information about this issue.



Resuscitation

Reanimation



Resuscitation bags

Flexo Bag
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Resuscitation kit

Oxycase
pagina 12



Oxyset
page 12



Oxygen
accessories



Pressure reducers
for oxygen
page 17



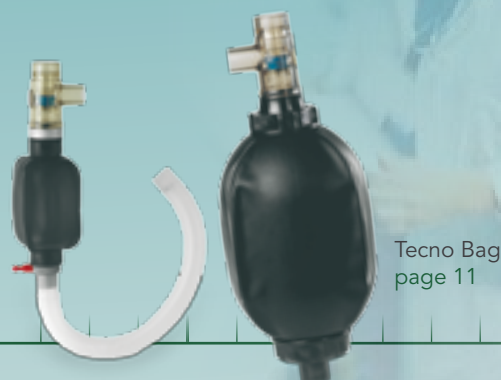
Cardio pulmonary resuscitation

It is one of the most fundamental and delicate moment in emergency.

The knowledge of operational techniques is a fundamental basis to save life of many patients in critical situations. Early intervention remains an indispensable premise for therapeutic success.

Unique benefits

- Italian product
- To save you time and money
- To provide the maximum legal guarantee



Tecno Bag
page 11



Speedy 2
page 13

Portable oxygen bottles
page 15



Why resuscitation bags

The resuscitation bag is one of the most used systems in **Cardio-pulmonary respiration emergency**. The system, which also includes a face mask, or tracheal tube allows ventilation through manual compression by the operator. The bag comes with a non-return valve that prevents the flow of air exhaled by the patient back to the bag itself. It's also equipped with an oxygen connection and a valve for inhaling the ambient air.

Tecno-Gaz S.p.A. since many years is a leading company for the production of resuscitator bags, as well as resuscitation sets and accessories.

We can count on a wide range of resuscitator bags that meet any operational need.

Why resuscitation set

Tecno-gaz Spa produces a range resuscitation set, with or without oxygen refillable bottles.



Flexo Bag

Resuscitation bags

The new line of Resuscitator Bags has been **completely redesigned**. New materials have been used and each detail has been carefully conceived. Testing and quality control are carried out through sophisticated systems.

The Flexo Bag line offers 3 models of different size:

- Adults
- Children
- Infants

All models are equipped with **connector** under EN 1281-1 directive:

- Peep valve
- Intubation fittings
- Reservoir
- Oxygen Intake
- Face mask

The mod. Flexo Bag resuscitators can be supplied with standard valve or with pressure relief valve.



**LATEX
FREE**



Ask the expert

Who needs this?

All medical clinics

Why Flexo Bag:

The resuscitation bags are designed in order to grant the maximum elasticity, even in critical conditions. This ensures a rapid expansion after each use, ensuring efficiency and operational ergonomics.



- Art. 1026-V2 Adults
- Art. 1024-V2 Children
- Art. 1022-V2 Infants

Frame and click!
Use your mobile phone to get further information about this issue.



Reanimation masks

We have a wide range of resuscitation masks, in all sizes available. **2 ranges of products are available, for adults, children and infants:**

- a range manufactured from transparent silicone, with central shell made from polysulfonate, all fully autoclavable.
- a range made from natural rubber, with central shell made from polysulfonate, all fully autoclavable.

Silicone masks



Art. CM84104

Size 5 ADULT

Length	131 mm
Height	96 mm
Depth	77 mm
Weight	87 g



Art. CM84103

Size 4 ADULT

Length	118 mm
Height	94 mm
Depth	73 mm
Weight	79 g



Art. CM84102

Size 3 CHILD

Length	101 mm
Height	87 mm
Depth	70 mm
Weight	71 g



Art. CM84101

Size 1 PEDIATRIC

Length	77 mm
Height	77 mm
Depth	54 mm
Weight	25 g



Art. CM84100

Size 0 INFANT

Length	50 mm
Height	50 mm
Depth	40 mm
Weight	19 g

Natural rubber masks



Art. CM84015

Size 5 ADULT

Length	131 mm
Height	96 mm
Depth	77 mm
Weight	71 g



Art. CM84014

Size 4 ADULT

Length	118 mm
Height	94 mm
Depth	73 mm
Weight	70 g



Art. CM84013

Size 3 CHILD

Length	101 mm
Height	87 mm
Depth	70 mm
Weight	58 g



Art. CM84012

Size 1 PEDIATRIC

Length	77 mm
Height	77 mm
Depth	54 mm
Weight	24 g



Art. CM84011

Size 0 INFANT

Length	50 mm
Height	50 mm
Depth	40 mm
Weight	18 g

Flexo Bag

Resuscitation bags

Flexo Bag includes a wide range of **single bags**, made with **exclusive characteristics and solutions**. The range includes **3 types of models: adult, child, infant, and each model is made in 4 versions**. All the bags, both autoclavable and non-autoclavable, are made in **Latex Free**, antistatic, natural rubber. All the models are black since this ensures less visible deterioration and maximum protection and preservation from alteration due to exposure to light. **The resuscitation bags are designed in order to grant the maximum elasticity, even in critical conditions. This ensures rapid expansion after each use**, and so guarantees operating efficiency and ergonomics. All the bags have rigid bosses with threaded locking to ensure the bag is perfectly sealed and easy to fit and remove so that the device can be disinfected and sterilized.

**LATEX
FREE**

Adults

	1026-V2	1026-2	1025-V2	1025-2
Capacity	1800 cc	1800 cc	1800 cc	1800 cc
Autoclavable	yes	yes	no	no
Safety valve	yes	no	yes	no
Normal valve	no	yes	no	yes

Child

	1024-V2	1024-2	1023-V2	1023-2
Capacity	800 cc	800 cc	800 cc	800 cc
Autoclavable	yes	yes	no	no
Safety valve	yes	no	yes	no
Normal valve	no	yes	yes	yes

Infants

	1022-V2	1022-2	1020-V2	1020-2
Capacity	400 cc	400 cc	400 cc	400 cc
Autoclavable	yes	yes	no	no
Safety valve	yes	no	yes	no
Normal valve	yes	yes	no	yes



Adults



Child



Infants

Tecno Bag

Resuscitation bags

Tecno Bag are double bag resuscitators. They're composed by an antistatic autoclavable and self expanding rubber internal bag and by an extra soft external bag. All connections are in accordance with EN 1281-1 directives.

The Tecno Bag models are equipped with connectors for:

- valve peep
- intubation fitting
- oxygen reservoir
- oxygen infeed
- maschere oronasali



Adults

	2000-R2	2000-RV2
Capacity	1900 cc	1900 cc
Autoclavable	yes	yes
Safety valve	no	yes
Normal valve	yes	no

Infants

	2100-R2	2100-RV2
Capacity	400 cc	400 cc
Autoclavable	yes	yes
Safety valve	no	yes
Normal valve	yes	no

Infants

Double bag resuscitator for enfants mod. Tecno bag is equipped with completely removable and autoclavable valve in order to simplify cleaning operations. Specially suitable for clinic and hospital use.

Adults

Double bag resuscitator for Adults mod. Tecno bag is equipped with completely removable and autoclavable valve in order to simplify cleaning operations. Specially suitable for clinic and hospital use.



Ask the expert

Who needs this?

All medical clinics.

Why Tecno Bag:

The double bag resuscitators are the utmost expression in terms of operational security. Tecno Bag is the state of the art resuscitator bag of Tecno-Gaz range.



Art. 2000-R2 Adults
Art. 2100-R2 Infants



Frame and click!
Use your mobile phone
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about this issue.



Oxicase • Oxyset

Resuscitation kit

Oxicase

Resuscitator kit with bottle, supplied in ABS case equipped with support and wall mounting.

Equipped with:

- 0,480 l stell oxygen refillable bottle
- Bag resuscitator
- n. 3 face masks
- n. 3 Guedel cannulas
- mouth opener
- tongue puller
- Ox tube
- Ox reducer R400 with monometer.



Oxyset

Resuscitator kit with bottle, supplied in ABS case equipped with support and wall mounting.

Equipped with:

- 0,480 l stell oxygen refillable bottle
- Bag resuscitator
- Face masks
- n. 3 Guedel cannulas
- mouth opener
- tongue puller
- Ox tube
- Ox reducer R400 with monometer.



Technical data

	Oxicase	Oxyset
Length	430 mm	400 mm
Height	110 mm	130 mm
Depth	320 mm	260 mm
Weight	5,5 Kg	4,3 Kg



Ask the expert

Who needs this?

All medical clinics

Why Oxicase e Oxyset:

To have everything you need, ready at hand in a practical ABS casing, with full support for wall mount.



Art. 5000-E Oxicase
Art. 4500-E Oxyset



Frame and click!
Use your mobile phone to get further information about this issue.



Speedy 2

Resuscitation set

We produce a wide range of resuscitation sets of the standard type, with or without refillable oxygen bottle. We can also offer customized kits including laryngoscope, phonoendoscope, sphygmomanometer, aspirator, surgery kits etc. Can be supplied in bags or inside plastic container. **Plastic containers - Bottles can be delivered with connectors on demand.**

Speedy 2

is resuscitating set complete with: 0.5 LT rechargeable steel bottle for oxygen, reducer with manometer and dosing unit, reanimation bag with mask, 2 Guedel canulas, tongue puller, helicoidal mouth opener, tube, in unbreakable plastic container.

Speedy 2 without bottles

Resuscitator set without bottles, supplied in a shock-resistant polypropylene case. Equipped with Bag resuscitator, face mask, mouth opener, tongue puller, n. 3 Guedel cannulas, Ox tube.



Technical data

	Speedy 2	Speedy 2 without bottles
Length	440 mm	430 mm
Height	110 mm	110 mm
Depth	320 mm	320 mm
Weight	4,5 Kg	2,2 Kg



Ask the expert

Who needs this?

All medical clinics

Why Speedy 2:

To have a complete resuscitation set always available in case of medical emergencies.

■ Art. 3007-E-2
Speedy 2

■ Art. 3007-R-3
Speedy 2
(without bottles)



Frame and click!

Use your mobile phone to get further information about this issue.



Portable oxygen bottles

Oxygen bottles 5 l capacity with valve. Are equipped with: **valve, oxygen reducer, manometer and distributors, oxygenation mask with tube.**
The kit is supplied in a fibrone case with handle for transport.

Art. 1912-B-2

Art. 1910-B-2

Art. 1911-B-2



Technical data

	1910-B-2**	1911-B-2**	1912-B-2**		1910-B-2**	1911-B-2**	1912-B-2**
Length	170 mm	170 mm	170 mm	Depth	130 mm	130 mm	180 mm
Height	460 mm	460 mm	610 mm	Weight	3,8 Kg	4,9 Kg	11,5 Kg



Ask the expert

Who needs this?

All medical clinics.

Why portable oxygen bottles:

To have a complete set for oxygen therapy contained into a practical case, equipped with a convenient carrying handle.



■ Art. 1910-B-2 Lt. 0,48
Art. 1911-B-2 Lt. 2,0
Art. 1912-B-2 Lt. 5,0



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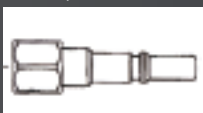


Accessories for central oxygen system

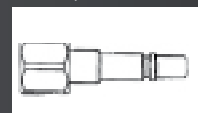
Accessories with different inlets available upon request.
Flowmeters, humidifiers and connections can be supplied separately.



Art. SDMA 002
Connection Rivoira
Old tipe



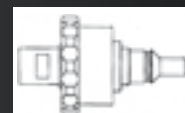
Art. SDMA 012
Connection Rivoira
New tipe



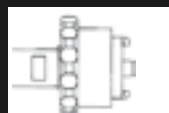
Art. SDMA 007
Connection DIN
13260



Art. SDMA 001
Connection UNI
9507



Art. SDMA 004
Connection Afnor
NF-S 90-116



Pressure reducers for oxygen

Oxygen reducers mod. R400 are the result of a careful technological research. R400 have been designed and manufactured in accordance with European directive 93/42 CEE and respect the technical rule UNI EN 738-1-1999. 36 different versions

of reducers R400 available, complete with bottle inlet on request, moreover R400 can be supplied with long inlet, for bottles with an higher capacity than 10 lt., or with standard inlet. Strict controls and rigid tests grant the perfect working of R400 reducers.



Art. SRPA 401 (UNI 9507)
Art. SRPA 415 (NF-S 90-116)
Art. SRPA 426 (DIN 13260)

R400

R400 with manometer (0-315) Bar, with 1/4" G female outlet.



Art. SRPA 468 (UNI 9507)
Art. SRPA 470 (NF-S 90-116)
Art. SRPA 472 (DIN 13260)

R400

R400 with manometer (0-315) Bar, with mechanical distributor.



Art. SRPA 409 (UNI 9507)
Art. SRPA 419 (NF-S 90-116)
Art. SRPA 430 (DIN 13260)

R400

R400 with manometer (0-315) Bar, with adjustable flowmeter (0-15) NI/min.



Art. SRPA 411 (UNI 9507)
Art. SRPA 420 (NF-S 90-116)
Art. SRPA 431 (DIN 13260)

R400

R400 with manometer (0-315) Bar, flowmeter (0-15) NI/min and humidifier capacity 300 cc autoclavable.

Technical data

Length	110 mm	Rated inlet pressure (P1)	200 bar
Diameter	Ø 40 mm	Rated outlet pressure (P2)	4 bar
Weight	with 1/4" G female outlet 885 gr with fixed orifice 910 gr	Max rated outlet pressure (P2 max.)	4,6 bar
Construction materials	Brass - Viton - Teflon	Standard discharge (Q1)	40 nl/min.
		Rated safety valve pressure (Prv)	7 bar



Ask the expert

Who needs this?

All medical clinics.

Why Oxygen pressure reducers:

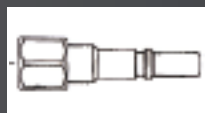
R400 oxygen pressure reducers are the result of careful technological research. They are designed and manufactured in accordance with the European Directive CEE 93/42, and comply with the technical standards UNI EN 738-1-1999.



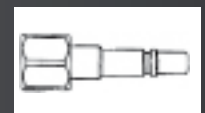
Frame and click!
Use your mobile phone to get further information about this issue.



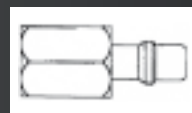
Art. SDMA 013
Connection Rivoira
Old tipe



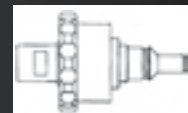
Art. SDMA 008
Connection Rivoira
New tipe



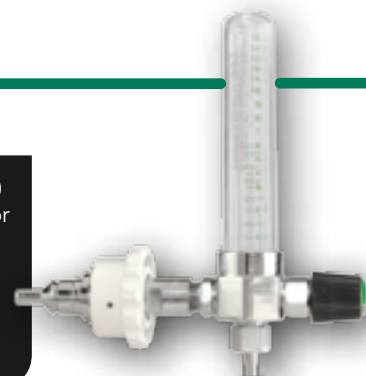
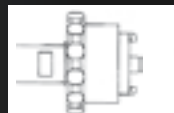
Art. SDMA 006
Connection DIN
13260



Art. SDMA 009
Connection UNI
9507



Art. SDMA 010
Connection Afnor
NF-S 90-116



Biological Risk

How to prevent infections in medical field

Biological risk



Instrument
sterilization



Artica Line
page 18



Clean
page 19



Ultra Line
page 20



Unika
page 23



Water purification



SterilAir Pro
page 64



Pura 10
page 68



Air sterilization

Why the sterilization process?

When evaluating risks within the medical environment, biological risk is considered the main factor to be analysed and brought under control. The environment and practices of medicine represent a risk for the transmission of pathogens, particularly those that are transmitted parenterally, if rigorous prevention methods to protect patients and operators are not applied.

Within the medical environment, the transmission of agents of contamination can happen through:

- airways
- water contaminated by bio-film and back-flow of revolving instruments
- contaminated surgical instruments

The concept of prevention must be considered a real cultural and structural project to be constructed with skill and care.



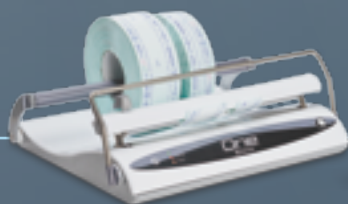
Tecno-Gaz is the only company than can offer you a complete plan for managing every aspect linked to prevention within your facility.

Unique Advantages

- making traditional sterilization more effective
- saving you time and money
- providing a maximum legal guarantee



MultiSteril
page 24



One
page 28



Autoclavi
page 32



Sterilization test's
page 56



Pura 2
page 68



Hands disinfection

Igenhand page 66



Sterilization paper

T-Paper
page 30



Automatic device for shoe biological insulation

Orma page 70



Biological risk



With **Tecnogaz** you can have the **most complete, rational and safe plan** for instrument sterilization; no-one can count on solutions like ours, researched to make every activity safe and to guarantee maximum results.

Tecnogaz S.p.A. can offer you solutions for fighting airborne infections and for the management and treatment of water, the latter being an issue of absolute importance for every medical facility.



Video Operating Protocols

Tecnogaz has created a teaching kit for all medical assistants, with regard to sterilization. The kit includes written procedures and a DVD with filmed procedures. (procedures-control tests-useful recommendations)

Artica

Disinfection vessels

Biological risk

Disinfection is the first phase in the sterilization cycle and its merit is two-fold: the first being biological, as it serves to fight the bacterial load, bringing the instruments up to a safe level; and the second being regulatory, expressly referring to Dlgs. (legislative decree) 81/2008 on worker's health protection. To correct disinfection it is necessary to use appropriate liquids and respect the waiting times. For this reason **Artica tanks come complete with support, with a built-in electronic digital timer. A unique solution**, that is indispensable for the correct management of this important phase of the cycle.

Artica vessels have been expressly studied in order 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 vessels are equipped with:

- **Full removable lid**, which allows the liquid to be changed easily and quickly.
- **Partial lid**, which allows instruments to be inserted without having to open the vessel completely with consequent escape of odours and fumes.
- **Support equipped with mechanical timer**, which allows the time the instruments stay in the vessel to be programmed and checked and guarantees that the disinfection process is completed correctly.
- **Internal basket** made of plastic.

Artica 1

WxHxD	335x210x240 mm
WxHxD (support)	295x20x240 mm
WxHxD (Steel vessels)	265x52x90 mm

Artica 2

WxHxD	335x215x500 mm
WxHxD (support)	295x30x500 mm
WxHxD (Steel vessels)	265x102x325 mm



Ask the expert

Who needs this?

All medical clinics.

Why a disinfection tub?

To implement a phase of chemical disinfection by immersion, for medical tools, instruments and handmade products, thus reducing the bacterial load, as required by DM81-2008.



- **Art. 2086-S-3** Artica 1
- **Art. 2087-S-3** Artica 2



Frame and click!

Use your mobile phone to get further information about this issue.



Clean

Device for instrument cleaning

Clean is a new device created for instrument cleaning.

The aim of this device is to help operators during the instrument cleansing phase, avoiding prolonged handling, thus making this phase simpler, more efficient and safer.

CLEAN is a simple device that includes the following:

- a compartment for storing and placing the instruments to be treated.
- a central compartment complete with a coiled bristle to clean the instruments.



Clean

Height	117 mm
Diameter Ø	122 mm
Weight	0,8 Kg

Biological risk



Ask the expert

Who needs this?

All medical clinics.

Why Clean?

Clean is a unique, simple and rational device, that helps with the correct execution of the instrument cleansing phase.

This device can be combined with the MULTISTERIL system, for the preventative removal of bi-component cements.



Art. 2070S
Clean



Frame and click!

Use your mobile phone to get further information about this issue.



Ultra

Ultrasonic cleaners

Cleansing is the most important phase in the whole sterilization cycle. In fact, a surgical instrument that still has the remains of organic material (fibrin) on it will not be able to safely undergo the correct sterilization process.

The most suitable systems for this process are undoubtedly ultrasounds that can remove blood, organic liquids and hard materials.

ULTRA model ultrasonic cleaners are the very best in cleaning systems because they rely on exclusive technological solutions. ULTRA tanks are available in the following models:

- **ULTRA 3** (capacity 3 lt.)
- **ULTRA 6** (capacity 6 lt.)
- **ULTRA 12** (capacity 12 lt.)
- **ULTRA 30** (capacity 30 lt.)



Ask the expert

Who needs this?

All medical clinics.

Why an ultrasonic cleaning system?

This systems allows for the correct and efficient carrying out of the cleansing phase of instruments and materials, removing all residue including coagulated blood and hard matter.



- **Art. 2790U** Ultra 3 | 3 lt.
- Art. 2791U** Ultra 6 | 6 lt.
- Art. 2792U** Ultra 12 | 12 lt.
- Art. 2793U** Ultra 30 | 30 lt.



Frame and click!
Use your mobile phone to get further information about this issue.





ULTRA • Characteristics



Liquid waste outlet with a built-in ergonomic side control.



Electronic temperature selection control.



Electronic time selection control.



Sweep-zone control for better distribution of cavitation across the whole tank.



Boost control to increase power by 25%.



De-gas control, to eliminate gas present from the water in the tank.

ULTRA • Optional

Universal liquids for the medical sector.
They quickly remove traces of blood and micro-organisms.

Art. 2220S

The universal intensive cleaner
lt. 2,5



Art. 2225S

The universal intensive cleaner
lt. 1



Available versions

Ultra 3

Ultra
3 l.

Frequency	38 KHz
Absorbed power	80 W / 280 W
Capacity	2,75 lt.

Dimensions of the tank

Width	240 mm
Height	137 mm
Depth	100 mm



Ultra 6

Ultra
6 l.

Frequency	38 KHz
Absorbed power	600 W
Capacity	5,75 lt.

Dimensions of the tank

Width	300 mm
Height	150 mm
Depth	150 mm



Ultra 12

Ultra
12 l.

Frequency	38 KHz
Absorbed power	1000 W
Capacity	12,75 lt.

Dimensions of the tank

Width	300 mm
Height	240 mm
Depth	200 mm



Ultra 30

Ultra
30 l.

Frequency	38 KHz
Absorbed power	1500 W
Capacity	28 lt.

Dimensions of the tank

Width	500 mm
Height	300 mm
Depth	200 mm



Ultra

Ultrasonic cleaners

Biological risk



Unika

Drying machine

Demonstrating yet again its great attention to growing operating needs, Tecno-Gaz has produced a unique and extremely rational mechanical device for drying the materials to be sterilized.

This device allows the obligatory drying to be performed and to avoid any handling of instruments especially sharp ones.



Biological risk

Unika

Width	200 mm
Height	300 mm
Depth	400 mm
Weight	13 Kg
Main voltage	220V - 50/60 Hz
Power absorption	1 W

Extra info

- Constructed entirely from stainless steel.
- Complete with double convector that conveys hot air into the drying chamber.
- Special tray supplied with the device.
- Timer.

The use

Unika is simple, rational and very fast to use. It guarantees excellent drying, which prevents any possibility of corrosion and white marks on the instruments. Unika is an indispensable and very useful instrument that helps in the preparation of instruments and above all safeguards the operators from being pricked or cut. The average time required to obtain a good drying is only about four minutes.



Ask the expert

Who needs this?

All medical clinics.

Why a drying system?

No human intervention, removal of contamination risks, time saving, cost saving, perfect management of every phase.



Art. 2045-S-2
Unika



Frame and click!
Use your mobile phone to get further information about this issue.



MultiSteril

Multifunction Tank

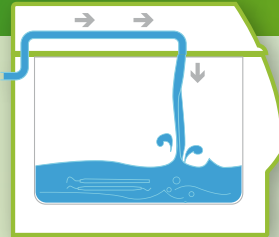
Tecno-Gaz S.p.A. has been able to create a new and revolutionary device that can automatically carry out all the major preparation phases for the sterilization cycle, such as disinfection, cleansing, rinsing, drying, without human intervention, without any professional risk and with a reduction in the overall time taken. A device that is unique in the world and indispensable for every facility that carries out sterilization.



Fasi di stand-by

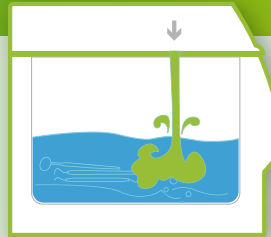
Stand-by

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.



Loading the water

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



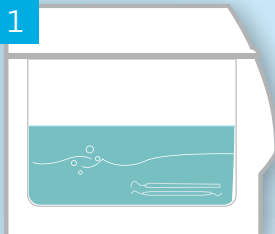
Disinfectant/detergent entry and liquid activation

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



Fasi del processo

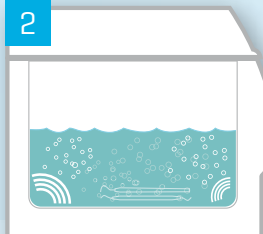
1



Heating

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

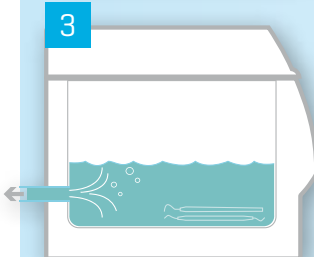
2



Degasification

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

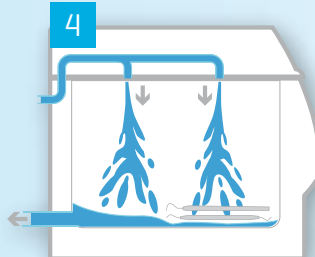
3



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.

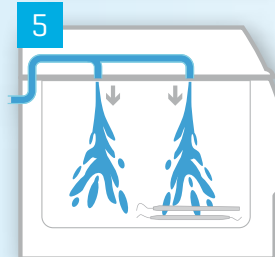
4



Waste

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.

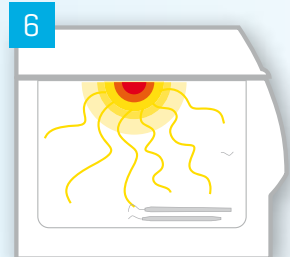
5



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. At the end the drying phase is launched.

6



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.



Ask the expert

Who needs this?

Indispensable in the medical clinics.

Why a multifunctional tank?

No human intervention, removal of contamination risks, time saving, cost saving, perfect management of every phase. Space saving.



Art. 2200S
MultiSteril



Frame and click!

Use your mobile phone to get further information about this issue.





The aspects that Multisteril can help you manage correctly



Time taken by assistants

Assistants take up a lot of time during the preparation phase of instrument sterilization because manual procedures are numerous and complex. **Multisteril does not require a person to be present.**

Managing the protocol

Sterilization takes place if the procedure for the preparation of materials is correctly carried out, otherwise the whole process is compromised. **Multisteril correctly executes the entire cycle.**



Space

Space is another important problem, in fact, very often sterilization rooms have limited dimensions and the use of space takes on considerable importance. **Multisteril reduces everything to 40 cm.**



Risk Factor

The handling of instruments and potentially infected material is a very important factor and must be kept under strict control, both for the protection of the operators as well as for the owner of the surgery. **Multisteril removes any risk.**



Overall costs

Cost is an important component that must be kept under control. **Multisteril costs approximately 2 Euros per cycle.**



MULTISTERIL

PACKAGING

TRACEABILITY

STERILIZATION

1

Disinfection

Stand-by

2

Cleaning

3

**automatic
rinse**

4

Drying

**NEW
STAND-BY**

Thanks to the new stand-by function, you can leave your tools within the cleaning phase, waiting to start the cycle, for as long as you need (want). In this way the cycle is faster and more efficient.



Economic advantages

What costs will you have if you use Multisteril?

Almost 2 Euros per cycle including the cost of the liquid **detergent**, as well as the cost of electricity.

What savings will you make?

- **Large savings on the cost of manual labour** as your assistant will save 30-40 minutes for every cycle.
- **Your assistant will use fewer PPEs** such as gloves, goggles, gowns.
- **You will save on liquid disinfectants because they will no longer be necessary**, for the disinfection phase of the instruments.
- **You will save on the use of liquid disinfectants and time** taken for the disinfection of work surfaces at the end of every preparation.



Biological risk



Product info

Multisteril

Width	415 mm
Height	415 mm
Depth	450 mm
Absorption max.	1 Kw
Voltage	230V - 50/60 Hz
Weight	10 Kg



Vessel size

Width	332 mm
Height	120 mm
Depth	227 mm



Standard Accessories



Art. 2220S

The universal intensive cleaner lt. 2,5

The universal intensive cleaner in the medical sector. Removes blood, protein and secretion in a short period.

Art. SVMA069

Mesh basket



Art. SVMA072

Basket for handpieces



Optional Accessories



Art. 2222S

Liquid for strong cements lt. 2,5

Solution for the removal of cement from bridges and crowns.

Art. 2210S

Tray holder + 2 trays



One

Thermosealing

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.

One assures

- 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**.



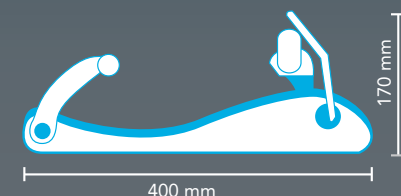
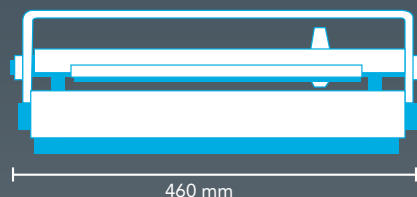
Bar lever perfect for both right and left-handed users.

Double programme of sealing, selected through the use of the appropriate button.



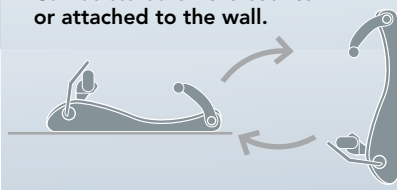
One

Width	460 mm
Height	170 (240 large roll) mm
Depth	400 mm
Weight	8 Kg
Max absorption	320 Watt
Main voltage	230 V - 50/60 Hz
Seal width	12 mm
Seal length	320 mm



Bar lever perfect for both right and left-handed users.

Can be stored **on the counter** or **attached to the wall**.



Roll holder

Universal lever

Cycle selection

Multifunctional LED



Ask the expert

Who needs this?

All medical clinics.

Why a sealer?

To create paper/plastic envelopes and seal the instruments inside the envelopes. Can be stored in all sterilization furnitures.



Art. 2165-S
One



Frame and click!

Use your mobile phone to get further information about this issue.



TecnoSeal

Automatic thermosealing with or without printer

Tecno Seal is a roller sealing machine with photocell automatic feed. Tecno Seal is equipped with built-in printer (1TAUA0002) 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.



Extra info

- Automatic photocell feed system (10 mt/min).
- Complete with integrated printer (Art.1TAUA0002)
- Automatic printing of seal/expiry date.
- Electronic card for control/management of parameters of use.



Tecno Seal

Width	485 mm
Height	163 mm
Depth	218 mm
Max. absorption	600 W
Main voltage	230V - 50/60 Hz
Weight	13,5 Kg
Seal length	12 mm



The use

The use of this machine is simple and rational. **All the operator has to do is insert the bag with the instrument on the sealing machine support and the photocell automatically and autonomously feeds the bag, seals it and stamps the packaging data.** This action can be continuative and repetitive to ensure very high output and considerable reduction of times. All the practices that plan to certify and document all the sterilization procedures must equip themselves with TecnoSeal.



Ask the expert

Who needs this?

All medical clinics.

Why an automatic sealer?

For thermosealing paper/plastic envelopes. Automatic operation ensures high time-saving production. The integrated printer allows for printing the relevant data relating to the date of packaging and expiry onto the envelope.

■ Art. 1TAUA0001
TecnoSeal

Art. 1TAUA0002
TecnoSeal Print



Frame and click! Use your mobile phone to get further information about this issue.



Biological risk

T-Paper

Envelopes and rolls for sterilization

Biological risk

Tecno-Gaz spa has introduced a new series of sterilization bags and rolls 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.



Sterilization rolls 200 metres

Rolls mm 50x200 mt Pack 8 Pcs.	Art. 400S3
Rolls mm 75x200 mt Pack 8 Pcs.	Art. 402S3
Rolls mm 100x200 mt Pack 4 Pcs.	Art. 404S3
Rolls mm 150x200 mt Pack 4 Pcs.	Art. 406S3
Rolls mm 200x200 mt Pack 2 Pcs.	Art. 408S3
Rolls mm 250x200 mt Pack 2 Pcs.	Art. 410S3
Rolls mm 300x200 mt Pack 2 Pcs.	Art. 412S3
Rolls mm 400x200 mt Pack 1 Pcs.	Art. 414S3

Self-sealing bags

90x230mm (200 pieces package) 12 - package box	Art. 602S3
140x250mm (200 pieces package) 8 - package box	Art. 604S3
190x330mm (200 pieces package) 6 - package box	Art. 606S3
330x450mm (200 pieces package) 2 - package box	Art. 610S3

Standard paper

Roll Length	200 mt. standard 100 mt. (on demand)
Colour Of Plastic Material	standard green blue (on demand)
gr m ²	60 gr m ² 70 gr m ² (on demand)



Ask the expert

Who needs this?

All medical clinics.

Why T-Paper?

T-Paper allows for maintaining the sterility of instruments for 30 days with a single envelope, or 60 days with a double envelope.

 T-Paper



Frame and click!

Use your mobile phone to get further information about this issue.



Traccia

The "Traccia" system

The tracking of the instruments is a basic procedure for the handling of sterilized materials. Tracking guarantees the recording of the "path" taken by each and every instrument, from preparation to sterilization, until it is used. This is made possible thanks to a data cross checking management system. **Tracking is an activity that forms an integral part of the sterilization cycle procedure and should be implemented after the wrapping phase and before the autoclave is loaded.** This procedure is indispensable in order to guarantee maximum legal protection to the operators and to the health director.

Biological risk



Moduls specifically devised for recording sterilization cycles.

CD containing files with printable forms.



Print labels with:

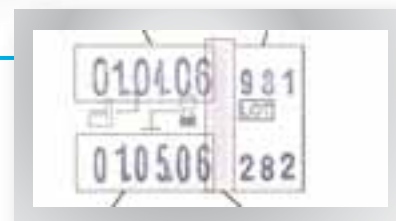
- Date of sterilization
- Date of sterility expiry
- Traceability of the sterilized load, providing information as to on which patient it has been used.
- Toning with colour change.



Labels

Self-adhesive labels from the Traccia system with the necessary information as to the traceability of the sterilization.

■ Art. 225-S
Labels



Labels from the Traccia system change colour once they have been sterilized in order to guarantee the outcome of the cycle.



Ask the expert

Who needs this?

All medical clinics.

Why Traccia?

Because it is a simple, safe quick and cheap system that will greatly protect you legally. A device that is indispensable for all surgeries, also recommended in the ISPELS GUIDELINES.

■ Art. 228-S
Traccia



Frame and click!

Use your mobile phone to get further information about this issue.



Autoclave range

Comparative table Tecno-Gaz autoclave range

* 24 litre model



Technical characteristics	Aura B Autoclave Class B loads	Alia B Autoclave Class B loads	Europa B Pro Autoclave Class B loads
Dimensions (WxHxD)	510 x 400 x 640 mm	510 x 400 x 640 mm	510 x 410 x 635 mm
	510 x 400 x 730 mm*	510 x 400 x 730 mm*	570 x 390 x 730 mm**
Weight	57 Kg / 61 Kg*	57 Kg / 61 Kg*	57 Kg / 61 Kg*
Voltage	230 V - 50/60 HZ	230 V - 50/60 HZ	230 V - 50/60 HZ
Absorption	1,7 kW / 2 kW*	1,7 kW / 2 kW*	1,7 kW / 2 kW*
Chamber dimension			
Chamber diameter	245 mm	245 mm	245 mm
Chamber depth	320 mm / 500 mm*	320 mm / 500 mm*	320 mm / 500 mm*
Optional			
 Internet connection	yes	no	no
 Voice controls	yes	yes	no
 Built-in printer	no	no	no
 Sd card	yes	yes	yes
 Connection for biological incubator	yes	yes	no
 Automatic locking	yes	no	no
 Manual locking	no	yes	yes
 Provision for Pura deionizer	yes	v	yes
 Overnight cycle	yes	yes	yes
 PID system	yes	yes	yes
 Automatic barometric alignment	yes	yes	yes

Autoclave	Type of cycle and average overall time*			
	121°	134°	Flash	Prion
Aura B	60 min.	47 min.	32 min.	62 min.
Aura B 24	56 min.	43 min.	32 min.	58 min.
Alia B	60 min.	47 min.	32 min.	62 min.
Alia B 24	56 min.	43 min.	32 min.	58 min.
Europa B Pro	60 min.	47 min.	32 min.	62 min.
Europa B Pro 24	56 min.	43 min.	32 min.	58 min.

* Overall time includes: vacuum, pre-heat, drying cycle. Times are intended to be for a fully loaded machine.

* model Europa B Evo
(24 lt. chamber)

** model Andromeda Vacuum Xp Plus
(20 lt. chamber)

*** model Hydra Evo Plus
(22 lt. chamber)



Technical characteristics	Europa B Evo Autoclave Class B loads	Andromeda Vacuum Xp Autoclave Class S loads	Hydra Evo Autoclave Class N loads
Dimensions (WxHxD)	510 x 390 x 590 mm 510 x 390 x 730 mm*	442 x 385 x 500 mm 442 x 385 x 500 mm**	442 x 385 x 500 mm 442 x 385 x 500 mm***
Weight	54 Kg / 58 Kg	35 Kg / 35 Kg*	54 Kg / 58 Kg
Voltage	230V - 50/60 Hz	230 V - 50/60 HZ	230V - 50/60 Hz
Absorption	1,7 kW / 2,2 kW*	2,2 kW / 2,2 kW**	1,5 kW / 1,5 kW***

Chamber dimension			
Chamber diameter	245 mm	245 mm	245 mm
Chamber depth	320 mm / 500 mm*	320 mm / 430 mm*	320 mm / 400 mm*

Optional			
 Internet connection	no	no	no
 Voice controls	no	no	no
 Built-in printer	yes	yes	no
 Sd card	no	no	no
 Connection for biological incubator	yes	no	no
 Automatic locking	no	no	no
 Manual locking	yes	yes	yes
 Provision for Pura deionizer	yes	no	no
 Overnight cycle	yes	yes	yes
 PID system	yes	no	no
 Automatic barometric alignment	yes	no	no

Autoclave	Type of cycle and average overall time*								
	121°	121° unwrapped	121° wrapped	134°	134° unwrapped	134° wrapped	134° Flash	134° Prion	Special
Europa B Evo	60 min.			47 min.			32 min.	62 min.	
Europa B Evo24	56 min.			43 min.			32 min.	58 min.	
Andromeda Vacuum Xp		50 min.	53 min.		38 min.	43 min.			23 min.
Andromeda Vacuum Xp Plus		50 min.	53 min.		38 min.	43 min.			23 min.
Hydra Evo	38 min.			24 min.					
Hydra Evo Plus	38 min.			24 min.					

* Overall time includes: vacuum, pre-heat, drying cycle. Times are intended to be for a fully loaded machine.

Aura B

Internet connection **for remote assistance**
for sending information to the customer
for gathered data saving

a new generation of autoclaves begins

Biological risk

B

AURA B is representing a revolution in the world of the sterilizers designed for the B type loads. **It is the first autoclave in the world which is able to connect to Internet, for the software upgrade, to download the sterilization data, to get technical support in real time and to receive useful information directly on the display of the device.** Useful voice alert supports and informs

the operator in different procedures, by making the interact with the autoclave easy and intuitive. AURA B is installed by authorised technicians, equipped to connect the autoclave to the service servers, **using the connections available:**

- ADSL standard ETHERNET
- ADSL standard Wi-Fi (with accessories on request)

A real devolution, that allows you to have a constant control on this important device, that is qualified to receive services and transmit data.



Ask the expert

Who needs this?

All medical clinics.

Why Aura B?

Because it is the **most highly-developed autoclave in the world**, and it is able to exploit all the benefits that modern technology offers us, ensuring service, as well as **time and cost savings**.

■ Art. 2036S
Aura B

■ Art. 2037S
Aura B 24

Frame and click! Use your mobile phone to get further information about this issue.



The most advanced autoclave in the world



Software Update

AURA B was created to be constantly updated, in fact, on confirmation by the operator it receives and downloads any available revisions present on the appropriate service server. An unusual solution that continually improves the performance of your device, getting the most out of it and maintaining its high cost value.



Constant telemetry

A telemetry control system constantly monitors the historic data that the autoclave transmits to the service server, which is analysed and managed in the event of anomalies.



The autoclave becomes a communication tool

It is possible to receive messages sent from the manufacturer, the device or from the distributor directly on the autoclave's display. Messages, information, invitations and offers can be received in this way; a whole professional communication system.



SOS Service

In the event of problems you can request help without losing time on the phone or waiting!!! All you have to do is press the SOS button and a message will be sent automatically to the help centre who will be able to make a remote diagnosis of your autoclave, and can intervene directly or indirectly to resolve the problem.



Internet archiving of cycles carried out

AURA B has an in-built system that automatically takes care of sending all the data relating to the cycle carried out to the service server at the end of every cycle. The server stores the data in a client/registration number folder, protected by a back-up service, for a period of 10 years (period of legal responsibility). In the event that the connection is not available the data will be held in the internal memory present in the autoclave and then downloaded onto the server as soon as the connection has been re-established. All the data is available to the operator.



PID System

PID ensures constant control and monitoring of the entire functional system of the autoclave, intervening automatically in the event of anomalies outside the correct technical and electronic parameters of the autoclave.



Barometric Alignment

Automatic barometric alignment is set the first time the device is switched on.



Overnight Cycles

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



Your autoclave talks to you

As well as its unusual IT functions, AURA B can count on one exclusive and distinctive feature of great importance: its voice function. AURA B gives voice commands that assist the operator in using the device. In the event of errors or anomalies the machine "generates" a HELP sign on the display, that, if activated by the operator, provides indications and useful information as to the solution to the problem.

biological risk





Accessories

Art.N.SPLA349 Special dual-purpose tray carrier

Art.2112S Roll of labels for traceability.

Art.2114S Network cable

Art.2115S Network ponte wifi

Art. 2110S Printer for printing traceable labels.



Aura B

Width	510 mm	510 mm
Height	410 mm	410 mm
Depth	635 mm	775 mm
Weight	60 Kg	64 Kg
Main voltage	230V - 50/60 Hz	230V - 50/60 Hz
Power absorption	1,7 Kw	2 Kw

Sterilization chamber dimensions

Diameter	245 mm	245 mm
Depth	318 mm	500 mm

Aura B 24



Sterilization cycles

- **OVERNIGHT CYCLE**
- **134°C – 121°C CYCLES** universal, both for wrapped and unwrapped instruments, all for type B loads.
- **FLASH CYCLE** for rapid sterilizations, on unwrapped instruments for type B loads.
- **PRION CYCLE**
- **TEST CYCLES** Bowie & Dick, Helix Test, Vacuum Test.
- Built-in anti-condensing system present in all cycles.



Aura B

Simple, safe and cutting-edge

Biological risk



Automatic Locking

Automatic locking is an exclusive system, based on innovative solutions that involve electronics, mechanics and dynamics. A mix of technology able to guarantee complete safety in all conditions, even the most extreme. All you need to do is close the hatch and start the cycle. Thanks to the vacuum, the hatch is closed and blocked by mechanisms that are immediately activated. A system with multi-level safety created to guarantee maximum safety.



SD Card

Collection and registration of the data relating to the cycles of sterilizations are carried out through SD card.



B-test connection

Periodically check the autoclave working order is a duty set forth by the current regulations. **Tecno-Gaz** has thus equipped **AURA B** autoclave with a system for the connection to and the management of the biological incubator.



Provision for mains water supply

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



Barometric alignment

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



Available versions

Art. 2036S Autoclave mod. **AURA B**

Art. 2037S Autoclave mod. **AURA B24**
with osmosis system

AURA B 24 allows for the sterilization of large loads and of particularly long instruments. This model is particularly recommended for medium-large surgeries, group practices and centres where there is a high use of instruments and devices. **AURA B 24** is fitted with the inverse osmosis system mod. **Pura**.



Alia B

the new generation of autoclaves is created

Biological risk

B

ALIA B is a new generation autoclave following on from the innovative AURA B project, using many of the same technologies used by our leading model. The development of this technology is the result of a long research and has involved various divisions of Research and Development both within and outside our company. ALIA B is a project with unique solutions and characteristics and cannot be compared with other models on the market.



Ask the expert

Who needs this?

All medical clinics.

Why Alia B?

Because it can exploit all the benefits that modern technology **offers us ensuring service, time and cost savings.**

■ Art. 2038S Alia B

■ Art. 2039S Alia B 24



Frame and click! Use your mobile phone to get further information about this issue.



Characteristics



Electronic control

ALIA B is managed by a new electronic system, equipped with **last-generation microprocessor**.



Cooling system

new cooling system, with double-body radiator.



Sterilization cycles

121°C-134°C suitable for both wrapped and free materials.
All cycles are for type-B loads.



Software Update

ALIA B has been created to be continually updated by SD CARD, a **simple and quick way to keep your device constantly updated.**



Voice functions

ALIA B can also count on an exclusive feature of great importance: its voice function.



P.I.D. system

Constant control and monitoring of the entire autoclave functional system.



Barometric alignment

Automatic barometric alignment, that is set the first time the device is switched on.



Overnight cycles

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





Listen to your autoclave!

Your Autoclave Talks to You

ALIA B can also count on an exclusive feature of great importance: its voice function.

ALIA B gives voice controls, which help the operator to use the device.

In the event of errors or anomalies, the machine "generates" a HELP sign on the display, that if activated by the operator, provides indications and useful information as to a solution to the problem.



Autoclaves that guarantee safe sterilization

PID system

The main commitment of a company like Tecno-Gaz is to manufacture products with unique features, distinguishing traits and concepts that ensure maximum reliability and safety to the user. Our research offices, together with support and assistance of external institutions have devised an extraordinary system that has been applied for the first time to our autoclaves. This innovative device is called P.I.D.

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.



Easier for operators

Accessori

Art.N.SPLA349

Special dual-purpose tray carrier

Art.2112S

Roll of labels for traceability

Art. 2110S

Printer for printing labels



Alia B

Width	510 mm	510 mm
Height	410 mm	410 mm
Depth	635 mm	730 mm
Weight	60 Kg	64 Kg
Main Voltage	230V - 50/60 Hz	230V - 50/60 Hz
Absorbed power	1,7 Kw	2 Kw

Sterilization chamber dimension

Diameter	245 mm	245 mm
Depth	320 mm	500 mm

Alia B 24



Sterilization cycles

- **OVERNIGHT CYCLE**
- **134°C – 121°C CYCLES** universal, both for wrapped and unwrapped instruments, all for type B loads.
- **FLASH CYCLE** for rapid sterilizations, on unwrapped instruments for type B loads.
- **PRION CYCLE**
- **TEST CYCLES** Bowie & Dick, Helix Test, Vacuum Test.
- Built-in anti-condensing system present in all cycles.

Alia B

Simple, safe and cutting-edge



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.



SD Card

Collection and registration of the data relating to the cycles of sterilizations are carried out through SD card. This system also allows to update the software of the autoclave without any technical intervention, but simply by inserting a suitable SD card.



Connection to B-test

Periodically check the autoclave working order is a duty set forth by the current regulations. **Tecno-Gaz has therefore equipped ALIA B autoclave with a system for the connection to and management of the biological incubator.**



Provision for mains water supply

The Pura osmosis system is an extremely compact, osmosis device designed for connection directly to the autoclave, to guarantee a constant supply.



Barometric alignment

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



Available versions

Art. 2038S Autoclave mod. **ALIA B**

Art. 2039S Autoclave mod. **ALIA B24 with osmosis system**

Alia B 24 allows for the sterilization of large loads and of particularly long instruments. This model is particularly recommended for medium-large surgeries, group practices and centres where there is a high use of instruments and devices. **Alia B 24 is fitted with the inverse osmosis system mod. Pura.**



Europa B Pro

autoclave for the sterilization of type B loads

Biological risk

B

Europa B Pro is an autoclave designed using new technology suitable for the sterilization of type B loads.

Europa B Pro can count on sophisticated solutions, which make it the autoclave with the best quality/price ratio on the market.



Ask the expert

Who needs this?

All medical clinics.

Why Europa B Pro?

Because it is a very latest-generation model, with a quality/price ratio that cannot be matched on the market.



Art. 2040S
Europa B Pro

Art. 2041S
Europa B Pro24
(with Pura system)



Frame and click! Use your mobile phone to get further information about this issue.





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 in place

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



Close-up view of the front of an Europa B Evo Pro autoclave



Technical characteristics

Pressure dynamics during a sterilization cycle with Tecno-Gaz Europa B EVO Pro autoclaves.



Electronic control

Europa B Pro is managed by a new electronic system, equipped with a latest generation micro-processor.



Cooling system

New cooling system with a double-bodied radiator.



Sterilization cycles

121°C-134°C suitable both for wrapped and unwrapped materials. All cycles are for type B loads.



Autoclaves that guarantee safe sterilization

Technical characteristics

The main commitment of a company like Tecno-Gaz is to manufacture products with unique features, distinguishing traits and concepts that ensure maximum reliability and safety to the user. Our research offices, together with support and assistance of external institutions have devised an extraordinary system that has been applied for the first time to our autoclaves. This innovative device is called P.I.D.

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 (if any).

Pre-set cycles without handling

All cycles are pre-set and always guarantee safe sterilization of the materials being treated. There is no possibility of intervention or handling in the cycles on the part of the operators. Thus avoiding any type of possible human error.

All cycles ensure the sterilization of type B loads

All sterilization cycles have a fractional vacuum system, controls and parameters that ensure the sterilization of type B loads. Even an incorrect selection of the desired cycle always ensures the safe sterilization of all types of material being treated.

Ergonomic and easy to use

You only need to press a button to select the cycle, and another button to start the whole process. It is impossible to make a mistake, impossible to choose a cycle that does not ensure correct sterilization, any kind of operator error is signalled by error messages. The autoclave can be used by more than one person without the chance of causing damages or problems. Even for this important aspect, Tecno-Gaz wants to provide maximum operator safety.

Biological risk



Europa B Pro

Europa B Pro 24

Width	504 mm	504 mm
Height	400 mm	400 mm
Depth	640 mm	730 mm
Weight	70 Kg	74 Kg
Main voltage	230V - 50/60 Hz	230V - 50/60 Hz
Power absorption	1,7 Kw	2,2 Kw

Sterilization chamber dimension

Diameter	245 mm	245 mm
Depth	318 mm	500 mm



Sterilization cycles

- **OVERNIGHT CYCLE**
- **134°C – 121°C CYCLES** universal, both for wrapped and unwrapped instruments, all for type B loads.
- **FLASH CYCLE** for rapid sterilizations, on unwrapped instruments for type B loads.
- **PRION CYCLE**
- **TEST CYCLES** Bowie & Dick, Helix Test, Vacuum Test.
- Built-in anti-condensing system present in all cycles.

Europa B Pro

Safe, easy, cutting-edge



SD Card

Collection and archiving of data relating to the cycles and the monitoring of the autoclave are carried out through an SD card. This system also allows for the software of the autoclave to be updated without any technical intervention, but simply by inserting a suitable SD CARD.



Barometric alignment

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



Art.N.SPLA349

Special dual-purpose tray carrier



Overnight cycles

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



Art. 21105

Roll of labels for traceability with anti-printing labels



Provision for mains water supply

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



Available versions

Art. 2040S Autoclave mod. **Europa B Pro**

Art. 2041S Autoclave mod. **Europa B Pro24** with osmosis system

Europa B Pro 24 allows for the sterilization of large loads and of particularly long instruments. This model is particularly recommended for medium-large surgeries, group practices and centres where there is a high use of instruments and devices. **Europa B Pro24** is fitted with the **inverse osmosis system mod. Pura**.



Accessories

Art. 276-S

Memory card

Art. 2110S

Printer for printing labels



Art.N.SPLA349

Two-sided tray holder
Special tray holder designed to hold 4 standard open trays and 3 trays with cover.



Biological risk

Europa B Evo

Fractional vacuum steam autoclave

Biological risk



B

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.**

Built-in connection for a biological B-Test incubator

On the front right-hand side is a B-test incubator connection **that is managed directly by the machine.**



Ask the expert

Who needs this?

All medical clinics.

Why a class B autoclave?

An autoclave conforming to EN 13060 is the very best of technology and safety in terms of sterilization. It ensures maximum efficiency in the sterilization of all instruments including those that are hollow and porous, typical in a dental surgery. Given the level of surgery achieved by doctors a class B autoclave is an instrument that is undoubtedly indispensable for all practices.



Art. 2033S2
Europa B Evo

Art. 2034S
Europa B Evo 24
(with Pura system)

Frame and click! Use your mobile phone to get further information about this issue.





Safety on the door

We have applied three safety devices on the autoclave door:

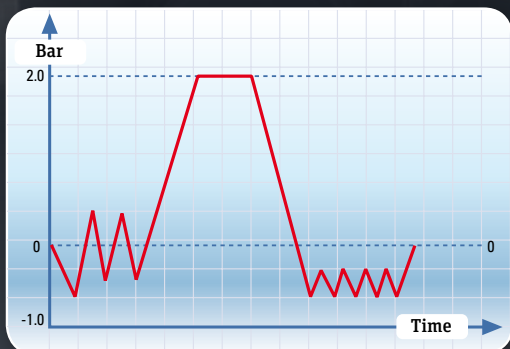
- **The first device is a mechanic and electromagnetic one:** it triggers when the sterilization cycle begins and completely blocks the door opening. This device can be removed at the end of the cycle by pushing the device-unlocking button, but only if positive pressure is near zero.
- **The second device 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 in place

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



Close-up view of the front of an Europa B Evo autoclave



Technical characteristics

Pressure dynamics during a sterilization cycle with Tecno-Gaz Europa B EVO autoclaves.





Autoclaves that guarantee safe sterilization

Technical characteristics

The main commitment of a company like Tecno-Gaz is to manufacture products with unique features, distinguishing traits and concepts that ensure maximum reliability and safety to the user. Our research offices, together with support and assistance of external institutions have devised an extraordinary system that has been applied for the first time to our autoclaves. This innovative device is called P.I.D.

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 (if any).

Pre-set cycles without handling

All cycles are pre-set and always guarantee safe sterilization of the materials being treated. There is no possibility of intervention or handling in the cycles on the part of the operators. Thus avoiding any type of possible human error.

All cycles ensure the sterilization of type B loads

All sterilization cycles have a fractional vacuum system, controls and parameters that ensure the sterilization of type B loads. Even an incorrect selection of the desired cycle always ensures the safe sterilization of all types of material being treated.

Ergonomic and easy to use

You only need to press a button to select the cycle, and another button to start the whole process. It is impossible to make a mistake, impossible to choose a cycle that does not ensure correct sterilization, any kind of operator error is signalled by error messages. The autoclave can be used by more than one person without the chance of causing damages or problems. Even for this important aspect, Tecno-Gaz wants to provide maximum operator safety.

Biological risk



Europa B Evo

Europa B Evo 24

Width	510 mm	510 mm
Height	390 mm	390 mm
Depth	590 mm	730 mm
Weight	54 Kg	58 Kg
Main voltage	230V - 50/60 Hz	230V - 50/60 Hz
Absorbed power	1,5 Kw	2 Kw

Sterilization chamber dimension

Diameter	245 mm	245 mm
Depth	320 mm	500 mm



Sterilization cycles

- **OVERNIGHT CYCLE**
- **134°C – 121°C CYCLES** universal, both for wrapped and unwrapped instruments, all for type B loads.
- **FLASH CYCLE** for rapid sterilizations, on unwrapped instruments for type B loads.
- **PRION CYCLE**
- **TEST CYCLES** Bowie & Dick, Helix Test, Vacuum Test.
- Built-in anti-condensing system present in all cycles.

Europa B Evo

Safe, easy, cutting-edge



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



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.



Connection to B-test

Periodically checking the efficiency of the autoclave is a duty sanctioned by the regulations in force. Tecno-Gaz has thus fitted the Europa B Evo autoclave with a connection and management system of the biological incubator.



Accessories

Art. 276-S

Memory card

Art.N.SPLA349

Two-sided tray holder
Special tray holder designed to hold 4 standard open trays and 3 trays with cover.



The osmosis system mod. Pura.

Pura is an extremely compact osmosis device, created to be directly connected to the autoclave, guaranteeing a continuous supply.



Available versions

Art. 2033S2 Autoclave mod. Europa B Evo

Art. 2034S Autoclave mod. Europa B Evo24 with osmosis system mod. Pura

Europa B Evo24 allows for the sterilization of large loads and of particularly long instruments. This model is particularly recommended for medium-large surgeries, group practices and centres where there is a high use of instruments and devices. Europa B Evo24 is fitted with the inverse osmosis system mod. Pura. It also directly connects to and manages the B-test spores biological incubator.



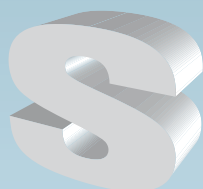
Biological risk

Andromeda Vacuum XP

Steam autoclave with pump

Andromeda Vacuum XP is provided with a powerful vacuum pump which, at the beginning of the cycle, ejects the airpockets which are into the sterilization's chamber, and, at the end of the sterilization's phase, grants a very good drying. A sophisticated electronic device grants a constant monitoring of pressure, temperature and time. It can work also without the presence of the operator, as all the functions are automatic. Andromeda Vacuum XP has an electromagnetic block device on the door. The total

automatism of each phase of the cycle prevents from any possible human error, also from inexperienced personnel. Stainless steel chamber, uniformly heated by a band heating element. Twin tank for clean and used water: Andromeda Vacuum XP is provided with 5 cycles of sterilization: 121° C and 134° C for unwrapped and wrapped instruments, and a "flash" cycle for the fast sterilizations. Andromeda Vacuum XP is supplied together with the printer built-in into the drive board.



Autoclaves certified for type S loads include hollow type B bodies (pipes or instruments with a large cavity) as well as resistant thermoplastics, wrapped and unwrapped solid materials.



Available
in 2 versions
(standard
and 20 litres)



Ask the expert

Who needs this?

Medical centres that do not have to **sterilize hollow or porous bodies, beauty centres.**

Perché Andromeda Vacuum xp:

- Fully automatic autoclave.
- It has many features and accessories.
- Available in 2 versions (standard or 20 litres).
- Excellent **quality/price ratio.**



Art. 2053-S
Andromeda
Vacuum XP

Art. 2053CL-S
Andromeda
Vacuum XP Plus

Frame and click! Use your mobile phone to get further information about this issue.





Mechanical pump-generated vacuum

The autoclaves mod. Andromeda Vacuum Xp Plus - Andromeda Vacuum Xp, adopt a pump vacuum system. Before the sterilization cycle, a pump generates a powerful depression or vacuum, removing all the air pockets present in the sterilization chamber and inside the wrappings and materials themselves. The vacuum pump is constructed with special membranes for the aspiration of hot air and steam. The pump-generated vacuum also ensures optimum quality of the sterilization cycle for both wrapped and unwrapped instruments. At the end of the sterilization cycle, the pump starts up again to facilitate and improve the drying phase. The vacuum system is adopted for autoclaves that are able to sterilize S type loads.

- Pressure dynamics during sterilization with Tecno-Gaz autoclaves.



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 in place

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

Technical features

	Vacuum XP	Vacuum XP Plus
Width	450 mm	450 mm
Height	385 mm	385 mm
Depth	540 mm	660 mm
Weight	50 Kg	55 Kg
Main voltage	230V±10% A.C.	230V±10% A.C.
Frequency	50/60 HZ	50/60 HZ



Sterilization chamber dimension

	Vacuum XP	Vacuum XP Plus
Diameter	243 mm	243 mm
Depth	320 mm	430 mm

Hydra Evo

Steam autoclave

Hydra Evo is steam autoclave for the sterilization.

- **2 sterilization cycles:** possibility of choosing two cycles at 134°C or 121°C.
- **Automatic phases** of preheating, sterilization cycle and drying.
- **Closure system with an operator safety pivot.**

- **Air pockets automatic ejection system:** thermodynamic system for the ejection of the "cold" air pockets.
- **Stainless steel chamber:** the sterilization chamber is made entirely of stainless steel and is heated by a band shaped heating element which guarantees uniformity of heat.
- **4 aluminium trays.**



Autoclaves certified for type N loads include solid, flat, unwrapped instruments.



Ask the expert

Who needs this?

The use of this device is greatly reduced as it can **only be used for solid and unwrapped bodies.**

Why Hydra Evo?

- **Simple and ergonomic** autoclave
- Because it is fitted with a **new highly-developed Electronic control system**
- Because it has extremely **low management costs**
- It is available in a **PLUS version with a 22 litre chamber.**



Art. 2066-S-2
Hydra Evo

Art. 2066L-S-2
Hydra Evo Plus



Frame and click! Use your mobile phone to get further information about this issue.





This product stands out mainly thanks to:

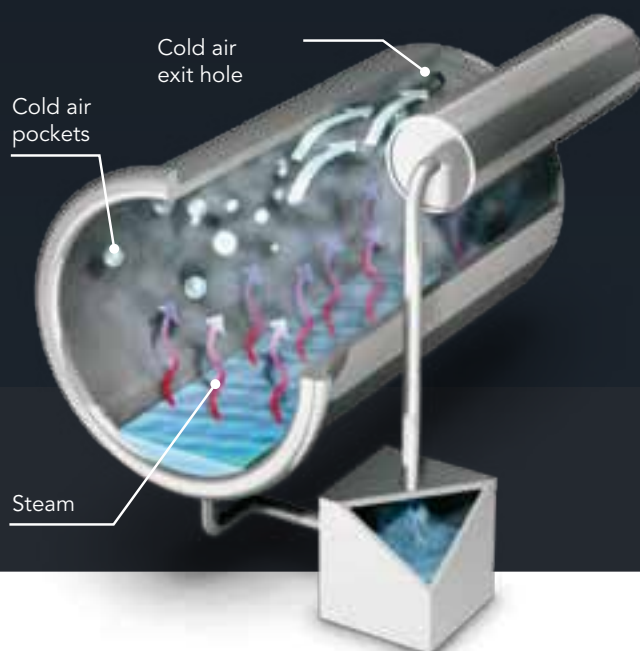
- **Electronic control with digital display, allowing the digital display of times and temperature.**
- **Control of the sterilization process**, through microprocessor management with a constant measurement system.
- **Operation control**, blocking the autoclave in the event that there is a lack or an inadequate quantity of water in the chamber.



Thermodynamic Vacuum

The thermodynamic movement of the steam pushes cold air pockets present inside the chamber from top bottom towards the exit hole controlled by a solenoid valve managed by the microprocessor.

This method improves the quality of the sterilization, although there are no checking or measuring systems on the process carried out. This vacuum system is normally used in type N autoclaves.



Available Versions

Hydra Evo Plus
Art. 2066L-S-2



Technical features

	Hydra Evo	Hydra Evo Plus
Width	442 mm	442 mm
Height	385 mm	385 mm
Depth	500 mm	500 mm
Weight	35 Kg	35 Kg
Main voltage	220V 50/60 HZ	230V±10% A.C.
Power absorption	1,3 Watt	1,3 Watt

Sterilization chamber dimension

Diameter	243 mm	243 mm
Depth	320 mm	400 mm

Sterilization cycles

cycles	Overall average cycle time*
121° unwrapped	38 min.
134° unwrapped	28 min.

* Overall time includes: vacuum, pre-heat, drying cycle.
Times are intended to be for a fully-loaded machine.

Pura System

Pura - Pura Plus - Pura Duo

Osmosis System Device

The Pura 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 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 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.

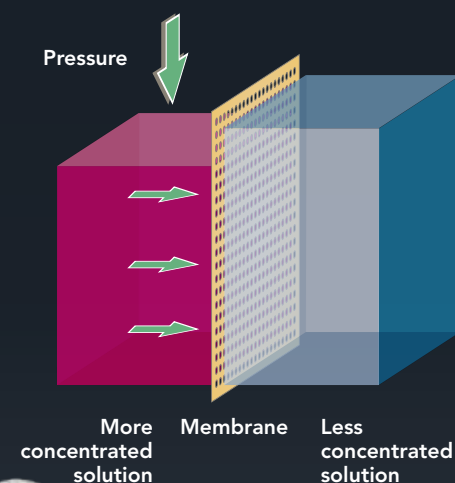
Pura - Pura Plus - Pura Duo

Width	350 mm
Height	300 mm
Depth	150 mm
Weight	3,5 Kg
Main voltage	230V 50 HZ
Max. power absorption	20 W



Inverse osmosis

Inverse osmosis is the **safest and most widely used water purification system in the world**. In fact, through this system pollutant particles of infinitesimal dimensions are removed, thereby guaranteeing water purity. This is made possible by an osmotic membrane, the real focal point of the system, which has the capability to filter water down to molecular dimensions, endowing it with optimal characteristics as regards both bacteriological and organoleptic purity. **Inverse osmosis is, as the name itself suggests, the inverse process to that which usually occurs in nature.**



This procedure is achieved thanks to a force (the pressure of the hydraulic network) which pushes the water with the more concentrated solution, i.e. that "with pollutants" towards a semipermeable osmotic membrane, thereby producing pure water. In this way 99.99% of organic substances and over 90% of inorganic substances are removed.



Ask the expert

Who needs this

This can be used by all those who own autoclaves **from the Tecno-Gaz 2010 line**.

- **Art. 247-S2** Pura
(Can be connected to a Europa B Evo line)
- **Art. 249-S2** Pura Plus
(Can be connected to the AURA and/or ALIA lines)
- **Art. OI1002PU** Pura Duo
(Can be connected to two Europa B Evo lines)

Why an autoclave osmosis system?

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.



Frame and click! Use your mobile phone to get further information about this issue.



Distiller

Water purification system

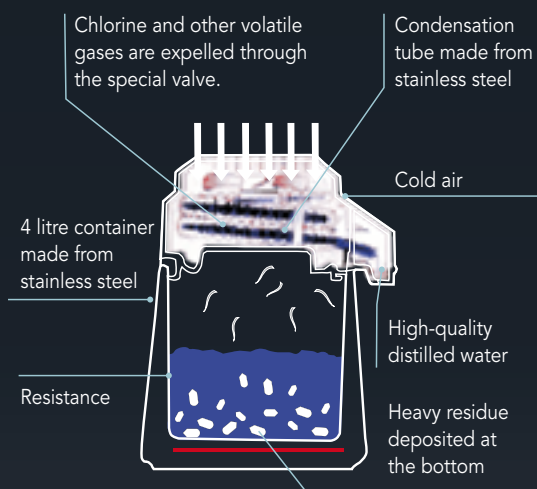
Devices for supplying autoclaves

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.



The system

All that is required is to fill the internal container of the Distiller with tap water and start the cycle. The temperature increases, reaching approximately 120°C. During this phase chlorine and other volatile gases are expelled through a special valve, while the prolonged high temperature eliminates any micro-organisms or bacteria. The water is transformed into steam, which is soaked up by a special coil that cools it, transforming it into distilled water. Before falling into a special container, the water passes through a filter that eliminates any odours.



Distiller

Diameter	200 mm
Height	360 mm
Weight	3,8 Kg
Main voltage	230V 50/60 HZ
Working capacity	4 lt in 6 hours
Max absorption	580 kW



Ask the expert

Who needs this?

All those who own an autoclave or who use devices that require distilled water.

Why a distiller?

To produce distilled water simply and cheaply, avoiding the purchase of expensive and heavy water barrels.



Art. 250S2
Distiller



Frame and click!
Use your mobile phone to get further information about this issue.



See Test B-Test B-Test Plus

Biological control test for autoclaves

Biological risk

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.



B Test

3 phial biological incubator, with spy operation and master switch, with a direct electrical connection to autoclaves mod. EUROPA B Evo - AURA B - ALIA B



B Test Plus

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



See Test

15 phial biological incubator, with spy operation and master switch. Dual temperature selector 37° for ethylene oxide - 57° for steam, connection to mains electricity, 220 V.

Ask the expert



Who needs this?

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

Why choose a Tecno-Gaz incubator?

Because they are certified incubators.

B Test:

- with connection to autoclaves Europa B Evo, Aura B and Alia B.

B Test Plus:

- With independent supply at 220 V

See Test:

- With independent supply at 220 V



Art. 2035S B-Test

Art. 2035TS B-Test Plus

Art. 260/S

See Test



Biological test



Use

Used to assess the ability of the autoclave to destroy all micro-organisms including spores. Requires the use of phials of spores and a biological incubator.

The phials must be inserted into the sterilization chamber, even while a load is present. Carry out the cycle. At the end remove the phial carefully as it will be hot and pressurised. Leave it to cool for approximately 10 minutes then activate it using the forceps supplied, always keeping it vertical. The chemical indicator on the phial's label will change colour from blue to black. Then insert the phial into a biological incubator at 57°C for 48 hours, together with an un-processed phial that has been activated with the special key. We recommended that checks are made every 12 hours for the presence of any bacterial growth.



Response

After 48 hours remove the processed phial from the incubator and assess the response. **If the phial has changed colour to yellow it means that the autoclave has not passed the test and bacteria has grown. If the phial remains purple in colour it means that micro-organisms are not growing** therefore the autoclave has passed the test. The test phial will obviously always change to yellow as it has not been processed, and will only serve as a comparison.

If the test has not been successful, repeat the test and in the event that the response is negative once again stop the autoclave and call an authorised technician immediately.



purple colour

SUCCESSFUL TEST



yellow-ish colour

FAILED TEST



At the end of the test dispose of the phials as urban solid waste; **we recommend, however, that the phial undergoes a further sterilization cycle at 121°C.**



Ask the expert

What is this 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 90 days.

■ **Art. 262/S**
Pack of 20 spore phials.



Frame and click!
Use your mobile phone to get further information about this issue.



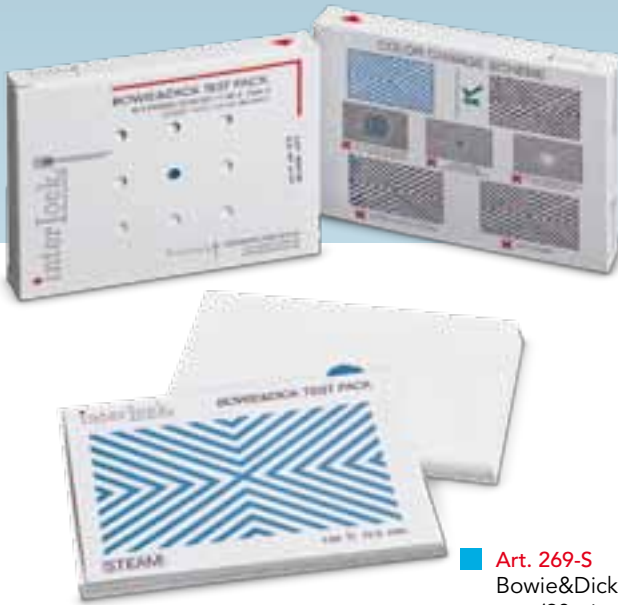
Bowie&Dick Test

Physical test for autoclaves that sterilize porous bodies



Use

The test is carried out while the chamber is empty. The **Bowie & Dick** must be placed on the autoclave's central tray. Carry out the relevant cycle, as indicated on the autoclave's display, at the end remove the packet, open it and check the chemical indicator sheet inside to see if it has changed colour.



■ Art. 269-S
Bowie&Dick, autoclave's test (20 pieces)



Response

The assessment is **simple and quick**. If the **colour change** is uniform the test has been completely successful, if not the test has failed therefore the autoclave is not able to sterilize porous bodies correctly.



BEFORE THE TEST



SUCCESSFUL TEST



Ask the expert

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**.

Frequency

Recommended every **30 days**



Frame and click! Use your mobile phone to get more information about this issue.



Helix Test

Physical test for autoclaves that sterilize hollow bodies



Use

Used to assess the ability of steam penetration in porous bodies. **Physical test, only suitable for autoclaves that are able to sterilize hollow loads**. The test is carried out while the chamber is empty. In the capsule located at the top of the test insert the special strip, then place the test on the central tray of the autoclave. Carry out the relevant cycle, as indicated on the autoclave's display. At the end remove the test, open the capsule and check the colour change on the indicator strip.



Response

The assessment is simple and quick.

BEFORE THE TEST



FAILED TEST



SUCCESSFUL TEST



Ask the expert

What is this used for?

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

Frequency

Recommended every **30 days**

■ Art. 267-S Helix Test (100 pieces)



Frame and click! Use your mobile phone to get more information about this issue.



Vaporline and Steam Plus

Chemical integrators suitable for all types of steam autoclaves CL.V



Use

Chemical integrators are the most suitable devices for checking steam sterilization, as they interact with all the parameters of the cycle, (pressure, temperature, time) certifying their correct stability.

Chemical integrators should be inserted into the sterilization chamber before the cycle is started, even while a load is present. The integrators can be unwrapped and placed on the trays, or can be inserted into the sterilization wraps together with the material to be sterilized. Inserting

integrators into the wraps is a procedure recommended for facilities in which there are several operators as by doing this **the sterilization of every single instrument can be certified**. For small autoclaves we recommend placing three integrators into the chamber: one on the upper tray, one on the central tray and one on the lower tray.



Vaporline type response

The assessment of the result is quick and easy to read.



FAILED TEST

If the colour change takes place in the green PASS section the test has been successful, otherwise the test has not been successful.



SUCCESSFUL TEST



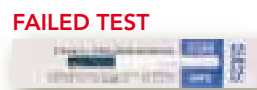
SUCCESSFUL TEST

If the colour change takes place in the green PASS section the test has been successful, otherwise the test has not been successful.



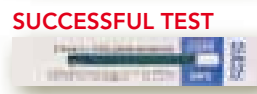
SteamPlus type response

The assessment of the result is quick and easy to read.

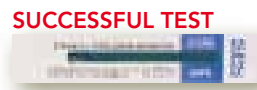


FAILED TEST

If the colour change takes place in the blue STEAM SAFE section the test has been successful, otherwise the test has not been successful.



SUCCESSFUL TEST



SUCCESSFUL TEST

If the colour change takes place in the green PASS section the test has been successful, otherwise the test has not been successful.



Ask the expert

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**.



Art. 200/S
Vaporline integrator
Pack. 100 pcs.



Art. 216S
SteamPlus integrator
Pack. 100 pcs.



Biological risk



Sonocheck

Ultrasonic tank control system

Why SonoCheck?

Ultrasonic tanks are a decisive instrument in the entire sterilization process, in fact, they "manage" the cleansing phase, which takes priority in the entire process. **Checking this important device is therefore decisive for every facility. Today it is possible with SonoCheck**, the first independent system able to perform **two types of test**:

- **operation test**: able to certify the ability of the removal of organic liquids, including blood on materials.
- **equipment assessment test**: able to assess the energy supplied, the correct water level, and above all, the occurrence of the phenomenon of cavitation.



Use

- Place the SonoCheck phials in the grill of the ultrasonic machine.
- Proceed with a washing cycle as a protocol adopted by the surgery.
- At the end of the cycle check the colour of the phials.

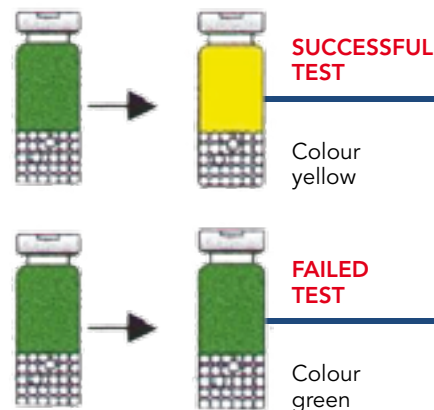


- Safety lid
- Indicating solution
- Nuclei for cavitation



Response

The change in colour from green to yellow signals a positive outcome for the test. The time necessary to obtain the colour change provides further indications with regard to the ultrasonic energy (average test for reference in max. 15 minutes). Record the results obtained on the test routine card.



In the event of serious problems **SonoCheck will not change colour at all.**

In the event of unsatisfactory results refer to the Operational Anomalies Guide (provided by Tecno-Gaz)



Ask the expert

What are these used for?

To certify the ability to remove organic liquids, including blood on materials.
To assess the energy supplied, the correct water level, but above all if the phenomenon of cavitation has taken place.

Art. 261S
Sonocheck
(pack of 3 phials)

Frequency

There is no specific rate according to regulations, but we recommend using it **at least every 15 days.**



Frame and click!
Use your mobile phone to get further information about this issue.



Sealcheck

Control system on the sealing machines

Why Sealcheck

Keeping sterile instruments is a key factor. The certainty of this status is determined mostly by the quality of the paper, which must be of good quality, but above all by a linear, proper and uniform sealing of the pouches. This control is possible today if a simple test called **SEAL CHECK** is used, to certify the validity of your sealing machine.



Use

SEALCHECK must be placed between the paper and the plastic of the wrap, then inserted underneath the sealing bar, before carrying out a normal seal. **The seal will be seen on the test paper and the operator can check the result obtained.**



Frequency

Recommended every **30 days**

Art. 266S
Sealcheck
(pack of 12 pieces)

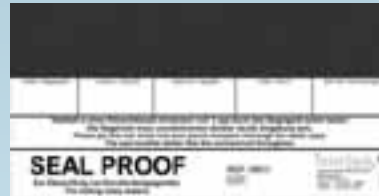


Frame and click! Use your mobile phone to get further information about this issue.



Response

If the black stripe shows uneven or incomplete sealed areas, the test will not pass and the sealing machine will require a technical inspection.



SUCCESSFUL TEST

If the black sealing strip is uniform, without any gaps, the test has been successful and the seal allows for the correct and long-lasting maintenance of the instruments.

FAILED TEST

If the black sealing strip has "gaps", the test has failed and the sealer needs to be checked by a technician.

Biological risk

TDS (total dissolved solids)

Hard water control system

Controlling the water supplied by the mains to dental surgeries, in terms of the total dissolved solids it contains. This starts from the assumption that **H2O with TDS below 30** can only come from high mountain springs or has been through osmosis and is therefore purified from salts, pollutants, bacteria and viruses. Such a complete purification cannot be **obtained through any other method of filtration.**



Use

With a TDS gauge immersed in a completely clean container, on pressing the upper button, a reading of the total dissolved solids in the water can be immediately obtained.



Response

Depending on the location, drinking water from the national mains supply can go from a TDS of 150 to 900/1000 (total dissolved solids). As mentioned above, **the ideal water TDS for a dental surgery would be no higher than 30-40, while autoclaves need a TDS between 0 and 5.**



Frequency

Recommended every **30 days**

Art. 263S



29.0 - SUCCESSFUL TEST
for surgery water



04.0 - SUCCESSFUL TEST
for surgery water



31.0 - FAILED TEST

Compact Plus

Sterilization furniture

Furniture for sterilization, ergonomic with a top where an autoclave can be positioned and three shelves. It can obviously be used **for all types of autoclave**.

Suitable for large sized autoclaves.



Ask the expert

Who needs these?

They are indispensable for medical clinics.

Art. 2032S2
Compact Plus



Frame and click!
Use your mobile phone to get further information about this issue.



Compact Plus

Width	510 mm
Height	850 mm
Depth	600 mm
Weight	53 Kg

Steril Compact

Sterilization furniture



Biological risk

Furniture for sterilization with compartment for autoclave, compartment for thermosealing machine with sliding table, compartment for trays with relative support, drawer hold-objects. **Rational and practical, Steril Compact is designed for Tecno-Gaz equipment.**



Ask the expert

Who needs these?

They are indispensable for medical clinics.

 **Art. 2025/S**
Steril Compact

 **Frame and click!**
Use your mobile phone to get further information about this issue.



Steril Compact

Width	600 mm
Height	1800 mm
Depth	520 mm
Weight	80 Kg

Sterilair PRO

Device for air sterilization

Biological risk

Airborne contamination

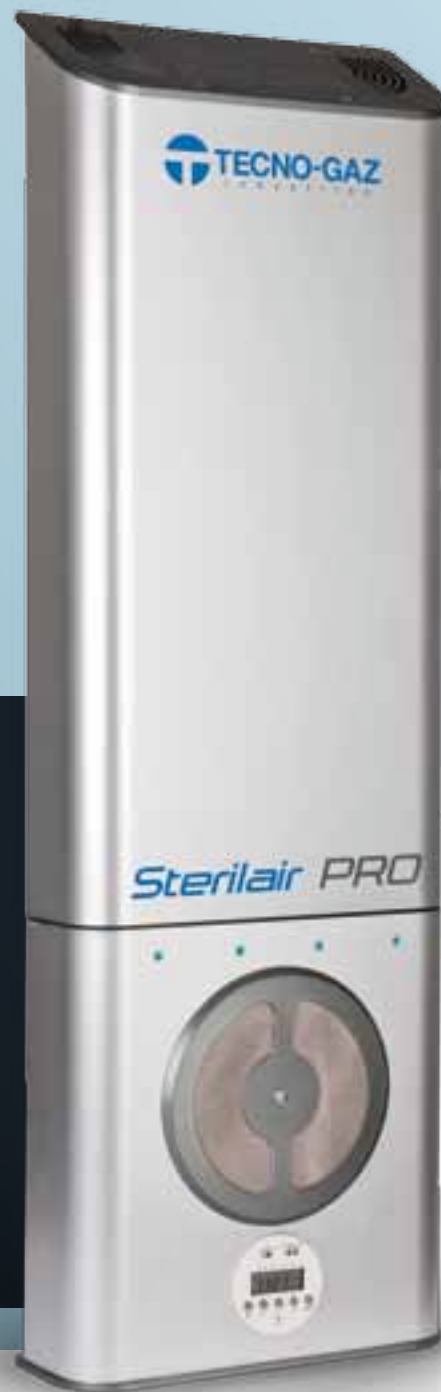
Airborne contamination has always been a serious problem in our society, in fact, many diseases are transmitted through airborne pathways. Meningitis, diphtheria, tuberculosis, measles, rubella, mumps, right down to simple flu, colds and the new forms of flu that have arisen over the last few years, such as bird flu and swine flu.

In some environments airborne diffusion is particularly critical, normally we think of all those environments where there is a **high concentration or turnover of people** (public places, meeting places, schools, nurseries etc.), or healthcare or surgical environments. Some healthcare environments take on even more critical importance, for example dental environments, **where the sprays and ultrasonic cleaners used create a greater diffusion** of micro-particles that are then carried into the environment. All these infections are becoming more and more wide-spread, so much that in some cases they are even defined as pandemics, which can cause high costs and considerable social problems. **The use of environmental sterilizers finds an immediate use within healthcare to reduce the risk of the transmission of airborne viruses**, on the basis of the recommendations outlined by the CDC (Centers of Disease Control and Prevention), but **such devices can also be used in all environments**.

Controlled ultraviolet radiation

There are various ways of decontaminating air, for example free ultraviolet radiation, chemical methods that use iodoforms, clorexidine and quaternary ammonium nebulized with the appropriate equipment. **Although considered effective, these techniques have a temporary effect, in fact they are of no use in moments when the operator is absent and they are in a completely inactive state. The most suitable and absolutely most efficient method is certainly the use of ultraviolet radiation at controlled wave-lengths.**

This has an intense microbicide function in the face of numerous micro-organisms. This acts by blocking the reproductive capacity of the micro-organisms by altering their chromosomes. No micro-organisms exist that are immune to germicidal radiation: spores, bacteria, mould, yeasts are eradicated by this radiation, even viruses undergo the destruction of their DNA. **The great advantage of our system lies in its absolute lack of danger (as certified) to man due to the minimal leakage of UV-C radiation from the unit.**



Ask the expert

Who needs this?

All medical clinics.

Why SterilAir PRO?

- It reduces the risk of operator contamination, as required by the Consolidated Safety Act.
- It reduces or eliminates costs and loss of earnings, as a result of long absences due to illness.
- It reduces or eliminates risks to patients and the population as a whole.
- It provides a bacteriologically pure environment.



Art. 210S
SterilAir Pro - Wall mounted version

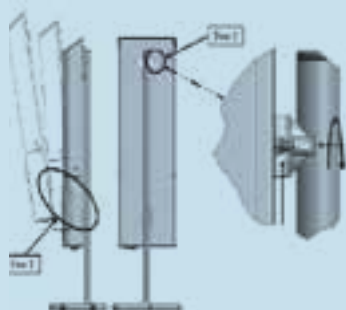
Art. 212S
SterilAir Pro Stand version



Frame and click! Use your mobile phone to get further information about this issue.



Stand version



CLEAN
AIR



SterilAir PRO

Safeguard your professional image and your prestige, by protecting your health and that of you colleagues and patients. SterilAir PRO is the first air sterilization system. SterilAir PRO is an air sterilizing appliance which guarantees the elimination of all microorganisms including spores. The air is transported into the sterilization chamber inside the device, which, by irradiation eliminates the entire microbial load present in the air. This device can run continuously also in the presence of people, ensuring maximum safeguarding of the operators. SterilAir PRO is simple, silent and ergonomic.

Functioning

Its functioning is based on a system of forced ventilation closed loop. The air drawn into the module first passes through a filter, mechanically positioned, within the inlet entrance. Here the coarser pollutants are blocked, preventing the fouling of the germicide lamps. Then the air is forced to pass in direct contact with mercury vapor tubes that, thanks to the emission of the UV-C, carry out the maximum germicidal action. The high reflectivity shielding action of the housing concentrates the reflections of the UV-C radiation. The air is subsequently expelled through the nozzle output, thus leading to an effective microbial killing.

The system

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.

CONTAMINATED AIR



Biological risk

SterilAir PRO

Width	18 cm		• Pre-filter inside aspiration vent
Height	125 cm	Equipment	• Air vents not against the current
Depth	8 cm		• T8 G13 Philips TUV (7 W UVGI)
Weight	7 Kg	Lamp	• n.4 UVC tubes 25W
Main voltage	230V 50 Hz	Structure	Reflective UVC alluminium
Power absorption	110 W	UV-C rays external output	none
Air capacity	120 m ³ /h	Danger	none
Operation	Continue	Ozone output	none
Wavelength	254 nm	Colour	Natural and anodized
UV-C tube substitution	8000 hours (1 year)	Installation	Wall mounted



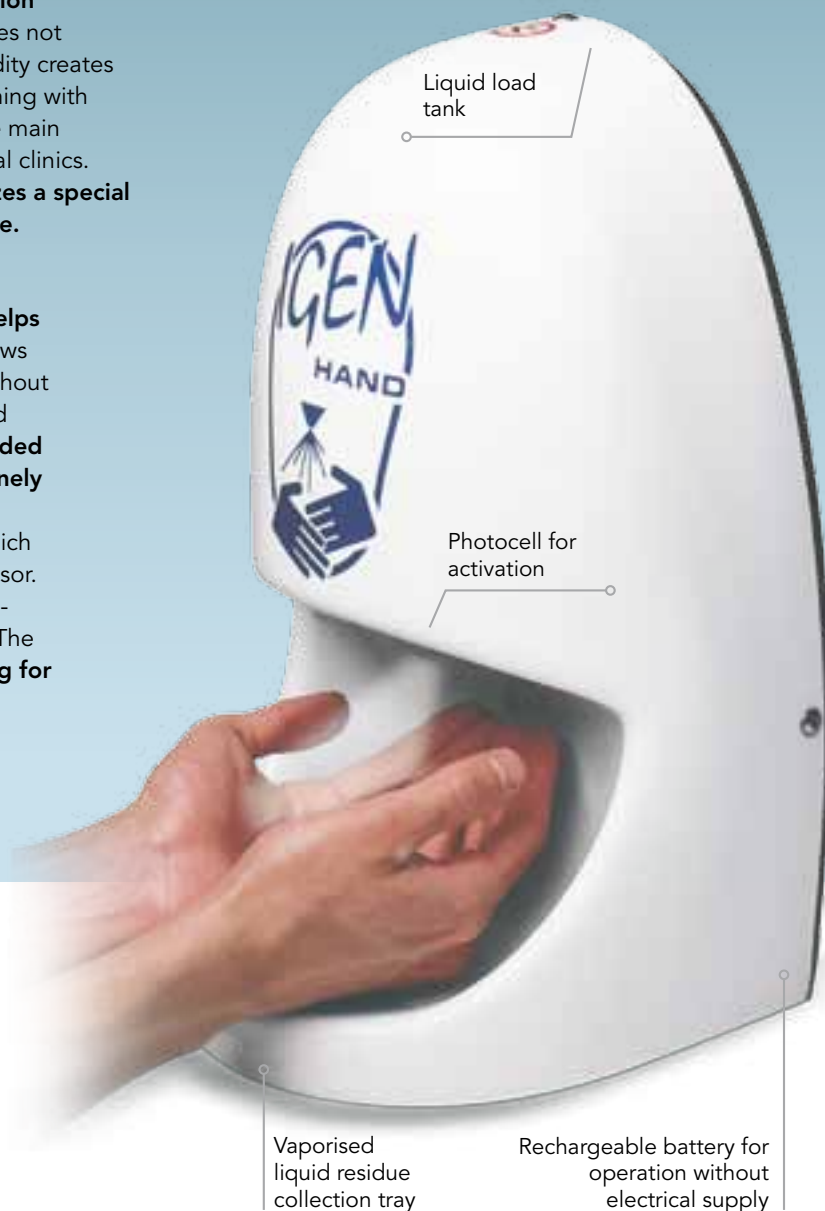
IgenHand

Hand disinfection device

Why a hand disinfectant?

The hands are the principal means of transmission of **crossed infections**, even the use of gloves does not eliminate this problem, on the contrary the humidity creates a marked proliferation of the bacterial load. Washing with antiseptic soaps and constant disinfection are the main protective barriers to be adopted in every medical clinics. **A system of automatic disinfection that nebulizes a special liquid is an indispensable and very useful device.**

IgenHand is an extremely useful device, that helps to rationalise hand disinfection. This device allows for an optimum disinfection to be carried out, without using levers, buttons, gels or liquids to be rubbed on. **IgenHand is a device that has to be pre-loaded with special liquid disinfectant, which is then finely vaporised and in a thorough and wide-spread way across the hands, during the moment in which they are inserted under the electronic control sensor.** IgenHand is a complete device that relies on well-researched solutions for use in all environments. The vaporisation of the liquid is micro-metric, **allowing for a very thorough disinfection and rapid drying.**



IgenHand

Time of vaporization	3,5 sec.
Feeding voltage	12 V
Working voltage	12 V
Tank capacity	1000 cc
Power absorption	20 W
Weight	5 Kg



Ask the expert

Who needs this?

All medical surgeries.

Why IgenHand?

- Ergonomic, **practical and functional** system
- IgenHand nebulizes the liquid micro-metrically ensuring maximum **penetration and rapid drying**
- **IgenHand does not have cables and connections**, and can be placed anywhere
- It is managed by an **electronic control**



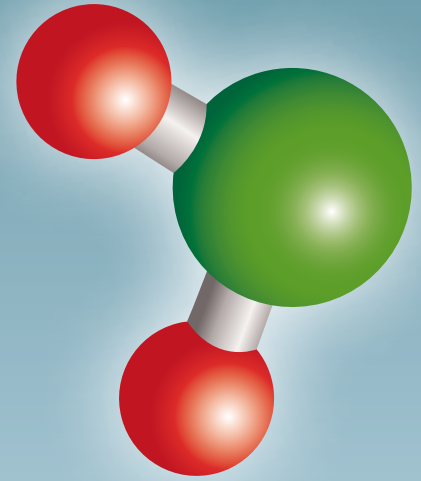
Art. 2044-S
IgenHand



Frame and click!
Use your mobile phone to get further information about this issue.



Devices for water disinfection



Biological risk

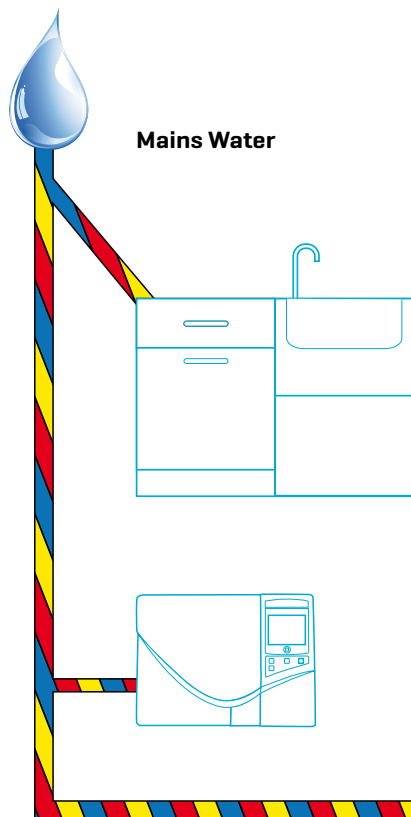
Why a device for water disinfection?

The problem of contaminated water can cause structural and biological damages. Lime can encrust water pipes, generating a blockage that can **cause unpleasant downtime and consequently economic losses**, due to temporary inactivity, as well as high repair costs on all the equipments thereto connected.

PROBLEMS

Damages caused by BIOFILM

Each material can be attacked by microorganisms and consequently modified or even destroyed. There are different types of microorganisms, such as single-celled algae, bacteria and fungi that can cause damages. **Bacterial BIOFILM generates a contaminating and dangerous deposit, which contains bacteria that can become resistant to various types of disinfectant**



LEGEND



H₂O - Mains water supply to the surgery



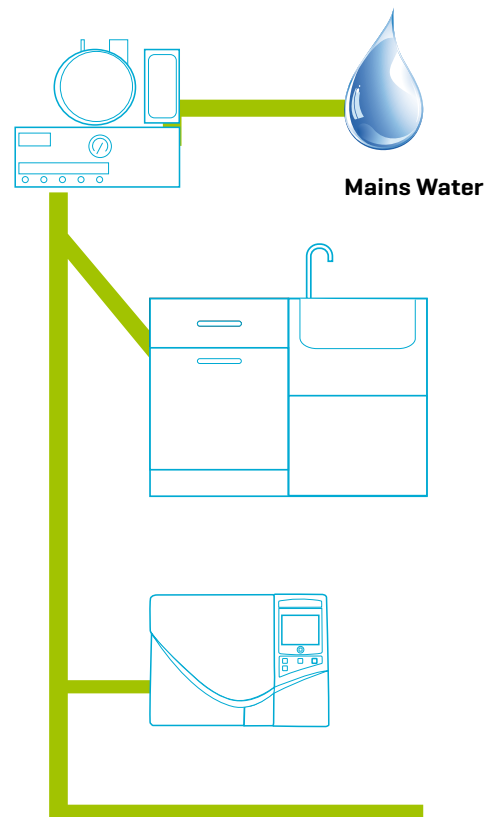
Inorganic components



Organic components

SOLUTION

with the Pura 2 Biox or Pura 10 Biox system



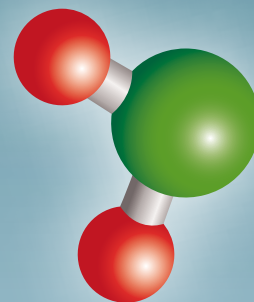
LEGEND



H₂O osmotized with large spectrum ClO₂ sanitizer

Pura 2 - 10 Biox

Centralised inverse osmosis and disinfection filtration systems with Chlorine Dioxide



Biological risk

Treatment of water with an inverse osmosis system

This is the safest and most wide-spread water treatment system in the world: this process, in fact, allows for the elimination of polluting particles of even the most infinitesimal dimensions (up to a ten thousandth of a micron, including viruses, bacteria and general impurities) thus guaranteeing its absolute purity.

Chlorine Dioxide (ClO₂)

The treatment of water in the medical environment is an activity of vital importance therefore the solutions used must be effective, tested and scientifically recognised. The most well-developed and recognised system of biological and bacteriological treatment in existence today is undoubtedly the emission of chlorine dioxide into the water in controlled quantities. A wide range of scientific and technical documentation is in existence about this substance, which appears to be the most effective, compatible and ecological. Using a water treatment system with devices that supply a dose of chlorine dioxide, means opting for the safest solution.

Pura 2 - 10 Biox

Devices for the treatment of water by inverse osmosis, complete with a system for biological treatment with Chlorine Dioxide, BIOX model. Thanks to their osmotic membrane, these devices are able to remove all the organic and inorganic particles in the water as it enters, eliminating limestone. Thanks to the chlorine dioxide, they automatically provide, without the machine needing to stop at all, the disinfection of all the water circuits of the unit, also eliminating the possibility of the formation of bio-film.



Ask the expert

Who needs this?

All medical surgeries.

- Art. 246S2BIOX
Pura 2 Biox
- Art. 246S10BIOX
Pura 10 Biox

Tecno-Gaz solutions

The range of devices for water treatment mod. Pura includes four high performance solutions:

Pura 2:

- To supply up one autoclave and one extra tap on the sterilization sink.

Pura 10:

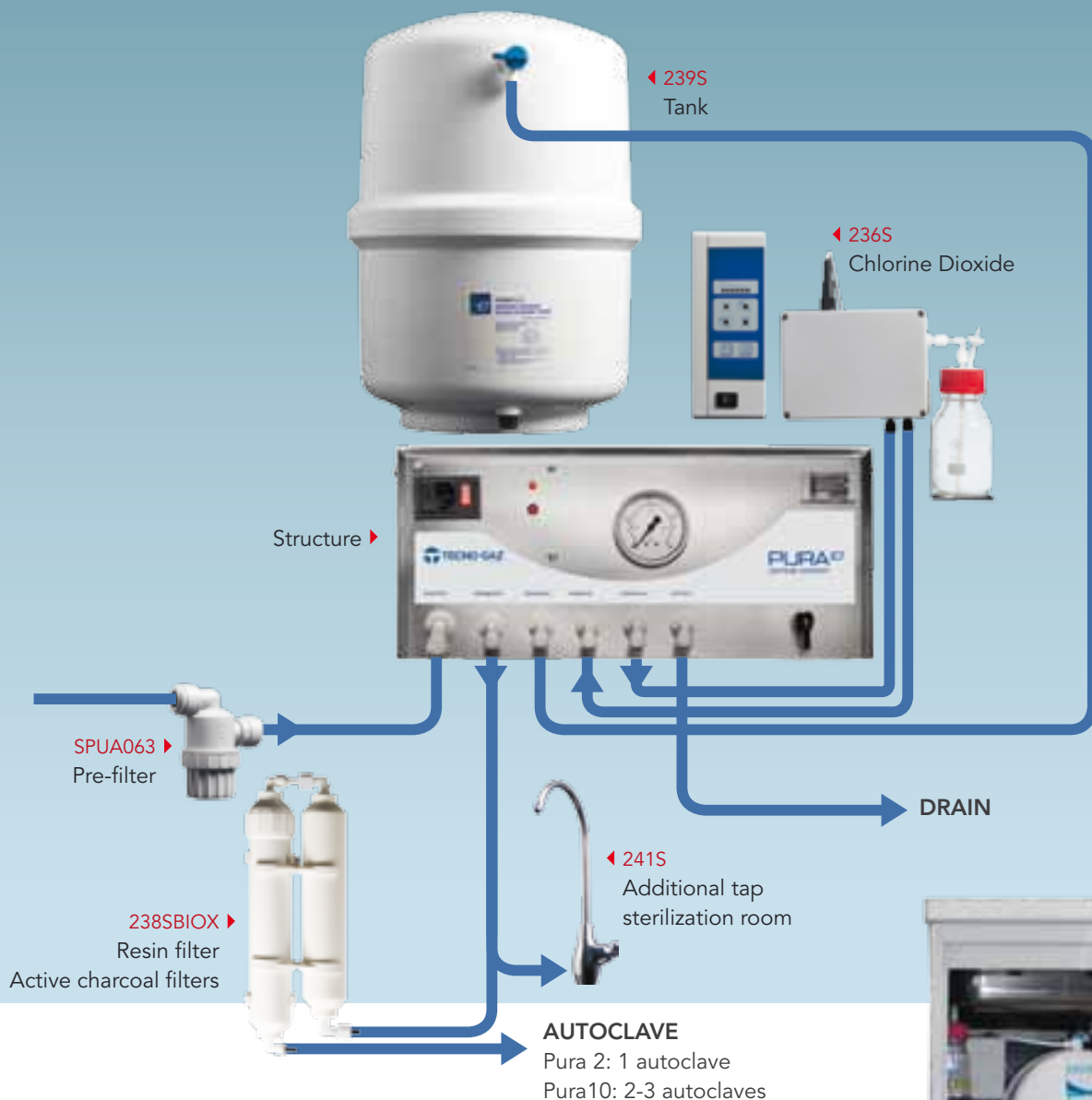
- To supply two autoclaves and one extra tap on the sterilization sink.



Frame and click! Use your mobile phone to get more information about this issue.



Installation kit Pura 2 - 10 Biox



Biological risk

Pura 2 - 10 Biox

Width	428 mm	Weight	13,5 Kg
Altezza	210 mm	Main Voltage	230V 50/60 HZ
Profondità	430 mm	Power absorption	165 W

Esempio di
installazione
Mobile non
fornito

Installation
example
Furniture is not
provided

Ask the expert

Who needs this?

All **medical
surgeries.**

Tecno-Gaz solutions

The range of devices for water treatment mod.
Pura includes four high performance solutions:

- Art. 246S2BIOX
Pura 2 Biox
- Art. 246S10BIOX
Pura 10 Biox

Pura 2:

- To supply up one autoclave and one extra tap on the sterilization sink.

Pura 10:

- To supply two autoclaves and one extra tap on the sterilization sink.



Frame and click! Use your
mobile phone to get more
information about this issue.



Orma

Device for surgical shoe covers

Biological risk

Tecno-Gaz S.p.A is proud to launch ORMA a new extraordinary and unique automatic device revolutionizing the concept of shoe insulation. ORMA is an automatic device that creates a shoe cover, by using a thermoretractable film and assuring a great number of practical, technical and economic advantages. This is an essential device for all medical surgeries and facilities.

Surgical protocols impose the usage of DPI (individual protection devices), which have to be used by operators and by patients. Protective shoe covers are essential for surgeons and supporting staff people who are obliged to insulate shoe covers which could "transport" infective materials. Even patient should be equipped with protective devices as shoe covers. The shoe covers mounting is very simple considering that it should be used also by sick people.



Easy to use

Wearing shoe covers manually or using devices that require special operative attentions are activities and situations that discourage the adoption of this important protective barrier. **ORMA is simple, quick, doesn't require any attention and is immediate, so it simplifies and boots procedure of adoption of shoe covers.**

Strong hygiene image

To adopt the procedure of wearing shoe covers as standard for operators and patients means a great attention to hygiene and protection. This generates a positive perception of patients and reduces microbic spread in surgical and operative areas. **ORMA facilitates the management of this procedure, reduces risks and costs and increases the image of the structure.**



Ask the expert

Who needs this?

All dental and medical surgeries.

Why Orma?

- Protective shoe covers are essential for surgeons and supporting staff people who are obliged to insulate shoe covers which could "transport" infective materials.
- **Easy to use**
- **Strong hygiene image**



■ **Art. 2900S**
Orma

■ **Art. 2910S**
Orma support



Frame and click! Use your mobile phone to get further information about this issue.





First Step

Step your foot on the special space.



Second Step

Leave the foot till when the film will completely wrap the lower part of the shoe.



Third Step

Relieve the foot (in case you can lean on the optional support that helps to maintain the balance).

ORMA "builds" automatically the shoe cover; In fact, by placing the shoe in the space where the thermoplastic film is, the heating system activates creating in real time shoe cover following the shoe configuration. The cover is so perfectly enveloping that insulates the shoe by creating a perfect protective barrier. The shoe is also impermeable and does not create obstacles to movements. The shoe cover is in plastic, therefore it guarantees higher life compared to those in other tissues.

ORMA is an elegant and technological device controlled by a microprocessor board, with programmable controls and commands. The cycle of film spread and the creation of shoe cover is carried out by entering the foot inside the special footprint on the machine.

A special support (optional) art. 2910S has been designed as holder to maintain one's balance during the phases of preparation and take off of shoe covers.

Accessories

Reel shoe (pack 4 pcs.)

Art. 2912S



Orma

Width	800 mm
Height	330 mm
Depth	445 mm
Weight	21 Kg
Level Over Ground	20 mm
Film-feeding Time	4 sec.
Shaping time	2 sec.
Power max.	1300 W
Start Preheating Time	3 min.
Voltage/Frequency	22 0±5%V 50Hz
Hot Standby Power	75 W
Highest temperature of Heater	250°

Orma support

Art. 2910S

Orma device

Art. 2900S



Biological risk

First Aid

in the medical environment

First Aid



Diagnosis

Vital Test
page 76



Oxygen therapy

Air Ox
pagina 82



Defibrillation

CPR tg
page 83



The first aid project

Tecno-Gaz S.p.A has set up the first aid project. A complete programme that helps you to **organise your facility, making it more efficient, compliant and ready to face any emergency.** In outpatient medical facilities it is a duty and an obligation to organise emergency plans with instruments and devices suitable for ensuring adequate first aid. Basic professional equipment must include:

- Semi-automatic AED defibrillator
- Multi-parameter and saturimeter monitor
- Resuscitation kit
- Medicines

Protect your facility

First aid products are life-saving devices, therefore equipping yourself with these items is a legal, ethical and professional duty. Having knowledge, medication and emergency devices also means **protecting yourselves**, your reputation and that of your profession, as well as **being ready and prepared** to save a person's life.



The greatest danger in medical emergencies
is not being properly equipped



MicroLife
page 78



Monitor MD
page 80



TecnoHeart S
page 85



TecnoHeart A
page 84



Overall project

Tecno-Gaz S.p.A. is not offering you first aid devices, but rather a **programme and a project that is well-designed and suitable for medical clinics. The devices and solutions are the result of careful operational analysis**, carried out by specialists and professionals in the field. Choosing a Tecno-Gaz device means setting out on an organic and complete path to safety.

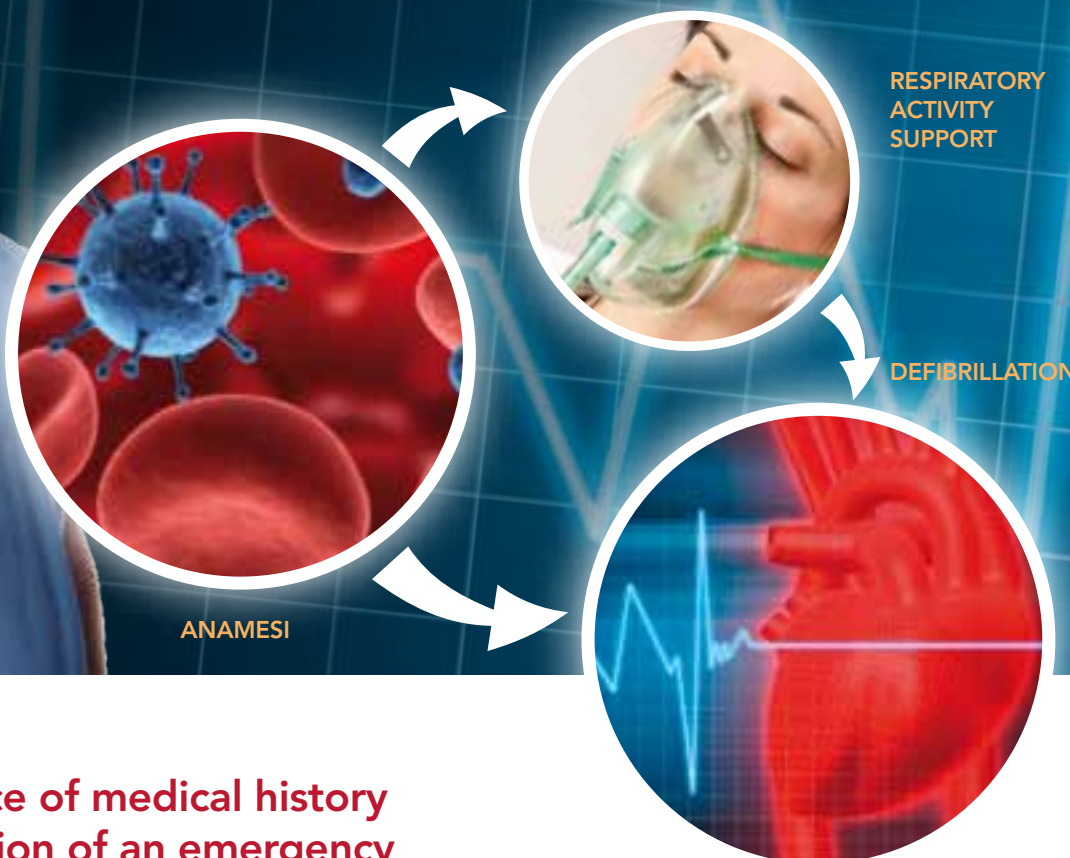


Publications

- Special "First Aid in the Medical Environment"

First Aid

Managing medical emergencies



The importance of medical history in the prevention of an emergency

The skill of every doctor is listening to patients and allowing them to give as much information as possible in order to manage their care in the best way. A correct medical history must be completed along with an overall evaluation of the patient, through his words behaviour and posture. A medical history is a complex analysis that we can, however, outline in 3 main areas of interest:

Current state of the patient

- age
- known risk factors
- any illnesses being experienced
- known allergies or reported allergic reactions
- therapies or cures being undergone
- possible pregnancy

Previous history

- any hospitalization and causes of it
- problematic episodes experienced
- illnesses experienced

Reason for the visit

- evaluate the reasons for the visit
- evaluate the patient's expectations
- evaluate the patient's needs



Respiratory arrest

Respiratory arrest is the arrest of the ventilatory function followed by anoxia. A patient in respiratory arrest rapidly loses consciousness and is deprived of respiratory activity in total apnoea or in extreme bradipnoea with isolated acts of noisy respiration, inefficient for maintaining appropriate blood oxygenation, while a pulse is present and usually tachycardic. Generally speaking, an intense cyanosis rapidly develops. If not stopped, respiratory arrest transforms into cardiac arrest in the space of a few minutes due to the depletion of oxygen still present in the blood and in the cells.

In the medical clinics, respiratory arrest is usually a peripheral problem, in particular for glottic oedema, for bronchial asthma attacks or for re-heightened obstructive chronic broncopathy.

It can also be assumed that the upper respiratory tract may be blocked by a foreign body. It is less likely that central respiratory arrest has occurred due to iatrogenic-toxicology, hypoglycaemia, local anaesthetics, opiates or benzodiazepine.

Tecno-Gaz first aid project

A complete programme that helps you organise your facility making it more efficient, compliant and ready to face any emergency. In outpatient medical facilities it is a duty and an obligation to organise emergency plans with instruments and devices suitable for ensuring adequate first aid. Basic professional equipment must include the following:

- SEMI-AUTOMATIC AED DEFIBRILLATOR
- MULTI-PARAMETER AND SATURIMETER MONITOR
- ELECTRONIC NEBULIZER
- RECOVERY KIT
- MEDICINES

Tecno-Gaz S.p.A. is able to provide you with all of these, as well as support services, training and information for your employees.



First Aid



Cardiocirculatory arrest in medicine

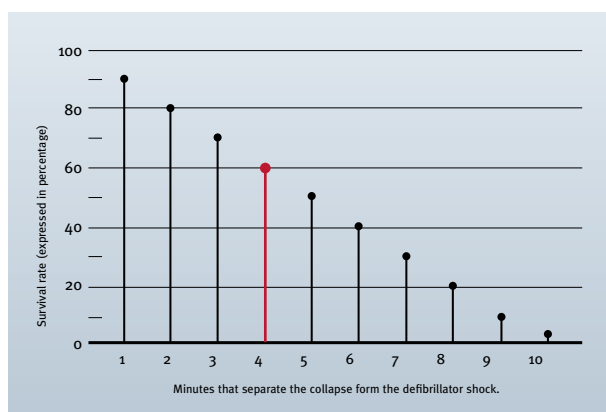
Nowadays the medical surgery is an environment in which sophisticated and highly invasive micro-surgical operations and therapies are carried out, even on elderly patients, and on many subjects who are anxious and stressed and who may have extremely negative reactions. For these reasons organisation of emergencies is a very important

ethical and legal priority. **Intervention must be timely** and a request for specialist help from the nationwide 118 emergency medical service (Italy) must be immediate. The principal emergency pathologies can be made evident through the cardio-circulatory apparatus in the cases of:

- Systemic toxicity to the local anaesthetics and vasoconstrictors
- Fainting
- Hypotensive crisis
- Cardiac arrhythmia
- Angina pectoris
- Acute myocardial infarction
- Acute pulmonary oedema
- Cardiac arrest



Mobile CMS [page 73](#)



What more can Tecno-Gaz offer you?

Information

- Educational texts
- Information publications
- Conferences

Products

- A complete range of high quality products

Training

- Certified courses for physicians and assistants specifically for the medical industry.

Vital Test

Diagnosis

Pulse Oximeter

The control of the functions and vital parameters of every patient during treatment interventions or outpatient surgery is a focal aspect for every professional. Nowadays, non-invasive systems and devices exist that allow for rapid and safe monitoring, ensuring the control and protection of the patient. The basic instrument that all doctors in general must adopt is the pulse oximeter, an indispensable, cheap and precise device.

VITAL TEST is a professional pulse oximeter that is designed for use in a medical environment. Simple and multi-functional it can be supplied with a special support, designed to be fixed to a unit, wall or stand. This option allows for constant control of the instrument and allowing it to become a convenient instrument for constant use.



Principal Characteristics

- wave-length or decimal reading of the values on the display
- adult-child reading selection
- on/off sound and adjustable volume
- SpO2 min / max alarms
- Pr min / max alarms
- patient identification
- data reading

On request **Vital Test** can be supplied programmed with an interface to be connected to a computer, for the registration and printing of all parameters measured.



Ask the expert

Who needs this?

All medical clinics must be equipped with a pulse oximeter as a basis for monitoring the patient.

Why Vital Test?

For the monitoring of vital parameters, such as oxygen concentration in the blood, heartbeat and frequency. In the event of a loss of oxygen, the basis for allowing cells to live, the equipment determines an emergency 60/90 seconds early.



■ Art. 11250
Vital Test

■ Art. 11255
Unit support



Frame and click! Use your mobile phone to get more information about this issue.



LCD wide display allows easy reading even at long distance, and it is also equipped with a control useful to activate or to remove retrorlighting in order to make it readable with all light conditions.

Despite visualizing basic parameters it also visualizes battery level and alarms.

Settings are the following:

- wave visualization or value decimal reading
- adults and children reading selection
- on/off sound and adjustable volume
- SpO₂ min/max alarms
 - pr min/max alarms
- patient's identification
 - data reading
 - volume pulsation

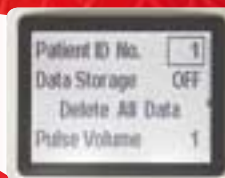
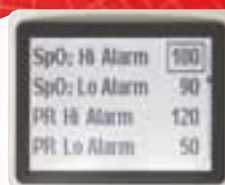
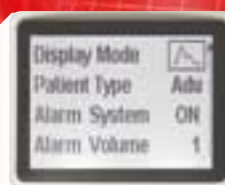


Photo gallery



Vital test with shoulder bag case that is easily transportable.



Vital test with support

Vital test can be supplied with a special support Art. 11255 designed to be fixed to a unit, wall or stand. This option allows for constant control and view of the instrument making it a convenient instrument for constant use.



Vital Test sensor

Vital test

Width	70	mm
Height	158	mm
Depht	37	mm
Weight	5	Kg
Feeding voltage	110/120	V
	50/60	Hz
Batteries power supply	4 x 1.5V LR6 AA	16 hours life-span
EMC Compliance	Class B	
Degree of protection	Type BF-A	Type BF-Applied Part
Display	128 x 64 dot-matrix LCD with LED backlight	

MicroLife

Diagnostics

Device for screening of atrial fibrillation

First Aid

- Measurement of pressure and heartbeat
- Detection of atrial fibrillation (Specify heart arrhythmias)
- Clinically tested (BHS protocol)
- MAM Technology (3 automatic measurements)
- XL-Display
- Low battery indicator
- Automatic storage of the last figure reported (M)
- Display error messages "ERR"
- 5 year warranty



MicroLife

Width	92 mm
Height	152 mm
Depth	42 mm
Measurement procedure	Oscillometric, corresponding to Korotkoff method: Phase I systolic, phase V diastolic
Range of measurement	30-280 mmHg - blood pressure / 40-200 beats / minute - pulse
Pressure range of cuff inflation	0-299 mmHg
Resolution measurement	1 mm di Hg
Accuracy static pressure	+ mmHg / -3
Pulse Rate Accuracy	-5% of the valuation detected
Power supply	Power 4x1, 5 V batteries - DC transformer 6V, 600 mA (optional)
Standard Reference	EN 1060-1 / -3/-4, les ICE-60601 60601-1 • 1-2 (CEM)



Ask the expert

A chi serve?

All medical centers

Perchè MicroLife?

It allows you to detect and preventively treat patients at risk, by performing a reliable and clinically validated screening, preventing possible complications, such as strokes. **With a simple push of the on/off button, 3 consecutive measurements are detected.**



Art. MP001ZDM
MicroLife



Frame and click!
Use your mobile phone
to get more information
about this issue.



Finger pulse oxymeter

Diagnostics

First Aid

- Easy and convenient use
- Portable
- CE Certification
- Cheap
- For professional and home use

A single button for all operations

- Power
- Tone
- Display mode
- Brightness setup



Finger pulse oxymeter

Width	57 mm	Display format	Two colored OLED ((Technology that has the ability to emit own light)
Height	31 mm		
Depth	32 mm	SpO2 measurement	between 35% and 99%
Weight (with battery)	60 gr.	Heart beat measurement	from 30 bPm to 240 bpm



Ask the expert

Who needs this?

All medical centers must have a basic diagnostic device for the monitoring of the patient.

Why a finger pulse oxymeter?

For keeping the vital parameters monitored, blood oxygen concentration, the heartbeat and the frequency. In case of loss oxygen, which appears to be the substrate basis for make cells live, the unit determines the emergency with an advance of 60/90 seconds, indicating the situation of anoxia.



Art. 11260
Finger pulse oxymeter



Frame and click!
Use your mobile phone to get more information about this issue.



MD Monitor

Electronic multiparameter monitor

Tecno-Gaz's MD monitor is a professional instrument with many operational and memory functions, fitted with accessories and circuits. The monitor has a **dual function: diagnosis and monitoring**. Allowing the **measurement of various vital parameters**, which can be measured singly or at the same time.

Here are some of its functions:

- Multiparametric monitor, with numerical and trace display.
- Operates with a battery or from the mains
- Complete with built-in printer
- Outlet for mains connection for remote management
- Adjustment and set-up of parameters
- 10 inch monitor

5 Parameters:

- ECG 5 channels 2 traces
- Systolic/diastolic/average pressure
- Heartbeat
- Pulse oximeter
- Respiratory control
- Dual sound temperature

Battery and power supply
status indicator LED

ON/OFF button

Alarm LED

Waveform recall

Freeze

Acoustic
alarm STOP

Print

Pressure/inflation
measurement

Main menu

Menu
navigation



Who needs this?

All medical clinics.

Why a multiparameter monitor

Diagnostics: can be used during the anamnesis, the monitor includes a DVD with a printable patient sheet.

Monitoring: the monitor is the higher technical and technological expression that assures precision, safety and a "strong quality of professionalism perceived".



Art. 930325
Monitor MD



Frame and click! Use your mobile phone to get more information about this issue.





Arrhythmia review

Display of waveforms in real time and of vital signs with priority formulation, during and after the presentation of arrhythmic events.



Graphic trends

Clear review of stored information with access to 72 hours of graphic trends of all the parameters and 40 seconds of full disclosure waveforms.



Temperature probe input

ECG input

Pressure connection

SP02 pulse oxymeter input

Batteries

Terminal

Equipotential ground connection

Fuses

MD Monitor

Width	318 mm
Height	264 mm
Depth	152 mm
Weight	5 Kg
Feeding voltage	100/240 V
	50/60 Hz



Accessories

Temperature probe

Art. SMMA010



Pressure detection extension

Art. SMMA013



5-lead ECG guide

Art. SMMA014



Pulse oxymeter sensor

Art. SMMA011



Equipotential ground connection

Art. SMMA016



Connections

Disposable ECG electrodes

Art. SMMA017



Pressure measuring cuff

Art. SMMA012

Air Ox

Oxygen therapy

Resuscitator with oxygen cylinder

An important device as oxygen forms the basis for keeping cells alive. The cylinder guarantees supply for up to 1 hour with 15 litres per minute. The cylinder must have a minimum of 5 liquid litres (1,000 litres of gas).

Tecno-Gaz can provide the AIR-OX resuscitator fitted with:

- an oxygen cylinder with 5 litres (1000 litres of gas) complete with an adaptor and litre dose measurer
- oxygen therapy mask
- resuscitation balloon with mask
- various accessories (mouth-opener, tongue-puller, Guedel pipes, tubes).



Why a resuscitator?

Oxygen is fundamental for keeping cells alive and must be administered in situations in which its concentration reduces due to insufficient respiration. Oxygen is indispensable in any emergency, therefore every facility must be equipped with suitable equipment for appropriate administration.

An outpatient resuscitation kit must have specific characteristics:

- refillable cylinder with at least 1000 litres of gas supplying at least 60 minutes with a flow of 15 lt/min.
- adaptor with dose measurement supply
- CE marked reusable and autoclavable accessories

Air Ox

Width	350 mm
Height	680 mm
Depth	170 mm
Weight	11,5 Kg



Ask the expert

Who needs this?

All medical clinics must be equipped with a resuscitation/ oxygen therapy system for the controlled administration of therapeutic oxygen.

Why Air-Ox?

Oxygen is indispensable in any emergency, therefore every facility must be equipped with suitable equipment for appropriate administration. **A flexible, practical and well-designed product for use in an outpatient environment.**



Art. 3003-E
Air-Ox



Frame and click!
Use your mobile phone
to get more information
about this issue.



CPRtg

Kit for external heart massage

This unique product was created to simplify the action of cardiac massage and mouth to mouth breathing mouth to mouth. The device helps to properly handle the force of chest compressions, ensuring a correct cardiac massage and avoiding the possibility of trauma or rib fractures. A product that combined with our defibrillator allows us to build a proposal that has no comparison on the market. Cardiopulmonary Resuscitation (CPR) is a technique that allows to inflate the lungs and compress the heart in an attempt to reanimate a patient who suffered cardiac arrest. If done correctly, the CPRtg can restart a normal heart action or maintain a blood flow to prevent brain damage, until when a specialist intervention will be available.

First Aid



CPRtg

Width	55 mm
Height	55 mm
Depth	310 mm

Container device + mask + tubing + gloves + user manual

Width	167 mm
Height	68 mm
Depth	206 mm



Users's manual

n.4 Disposable gloves

Mask

Mouthpiece

1 battery 9 Volt.



Ask the expert

Who needs this?

All medical clinics.

Why CPRtg?

The device helps to properly handle the force of chest compressions, ensuring proper CPR action and avoiding the possibility of trauma and rib fractures.



Art. KT005ZDM
CPRtg



Frame and click!

Use your mobile phone to get more information about this issue.



TecnoHeart

Defibrillation

Automatic and semiautomatic defibrillators

The defibrillator line has 2 models:

- TecnoHeart S (semiautomatic)
- TecnoHeart A (automatic)

The semiautomatic TecnoHeart S system

The AED defibrillators currently on the market are mainly semiautomatic. They are therefore controlled by vocal commands and the shocks are delivered by means of a manual command given by the operator. A simple guided operation.

The automatic TecnoHeart A system

The Tecnoheart AED automatic defibrillators are the maximum expression of versatility. These models manage all of the operations autonomously, informing the care giver of the activities being performed by the machine. The shocks are also delivered independently, subsequent to a verbal warning, without operator intervention. This avoids delays and hesitation, and all activities are carried out without human involvement.



Tecnoheart AED A
Automatic defibrillator



Ask the expert

Who needs this? Why TecnoHeart?

All medical clinics

Purchasing a defibrillator is an important and delicate decision, as it is the most important life-saving product, and **TecnoHeart is the best possible choice in terms of safety.**

■ **Art. 930304**
Tecnoheart AED A
Automatic defibrillator

■ **Art. 930302**
Tecnoheart AED S
Semi-automatic defibrillator



Frame
and click!

Use your
mobile phone
to get further
information
about this issue.





Tecnoheart AED S
Semiautomatic defibrillator

Safe and simple



Guided voice instructions

Following the written messages and voice instructions, anyone is practically able to use this lifesaving device. The instrument automatically gauges when a potentially lifesaving shock is required and protects the user against accidental shocks. Using a simple approach, the **TecnoHeart device guarantees a timely response without hesitation. Thanks to its compact dimensions, the care giver can use this device rapidly and immediately, in the event of an unexpected cardiac arrest.**



Wide variety of accessories

AED devices are being installed in an increasingly wide variety of locations and **the TecnoHeart models are an excellent example, thanks to the help they offer care givers, enabling them to respond rapidly in an emergency.** Tecno-Heart devices are battery operated with long-life, high-performance lithium batteries that do not require maintenance.



Tecnoheart reliability:

- Daily self-testing of all critical components, to ensure the equipment's constant efficiency.
- Daily self-testing of batteries, circuits and software to ensure that efficacy is maintained at all times.
- Weekly self-testing for the purpose of checking partial and full energy.
- Electrode presence and functionality test. This is an extremely important check that only exists on a few highly advanced AED defibrillators.
- Battery capacity level – the charge level of the batteries is always visible, thereby permitting controlled management.
- Visual and acoustic status indicator.



Tecnoheart ease of use

- Buttons for operation: only 1 button to be activated in response to the voice command (semi-automatic version), no buttons (automatic version)
- Pre-connected electrodes: always ready for use
- Non-polarized electrodes
- Text display: a display duplicates the voice commands and alarms through icons and written instructions
- Voice prompts for the positioning of the electrodes and advanced CPR: to assist you in all kinds of activities and functions.



Tecnoheart technology

- Biphasic technology, more advanced system for delivering and supplying the shocks
- First shock efficacy: 100% certified
- Average shock per patient: 2.3
- Time required for efficacious defibrillation: 55 secs

TecnoHeart analysis algorithm

- Programmable VF/VT ratio: 120-240 bpm
- Asystole threshold: 0.08 Mv
- Detection of noise during analysis: yes
- Control of shocks delivered: yes
- Monitoring during CPR: yes
- Synchronized shock: yes
- Detection of Pacemaker pulse: yes

TecnoHeart other features

- Internal memory for ECG data: 60 minutes
- Compatibility with manual defibrillators: yes
- Multi-event functionality: yes
- Pediatric electrodes: yes
- Product guarantee: 5 years
- Battery guarantee: 4 years



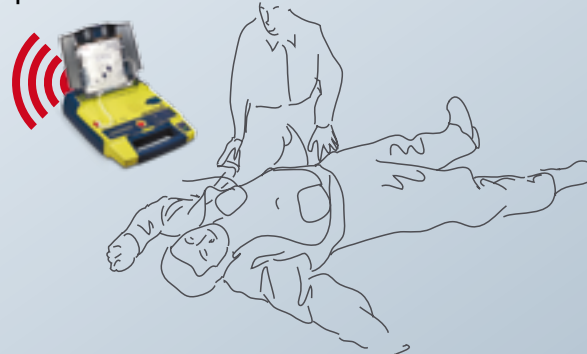
Training version

A training version is available on request

Art. 930301



Simple vocal procedures



TecnoHeart

Width	270 mm
Height	80 mm
Depth	310 mm
Weight	3,1 Kg
Length of electrodes	130 cm
Energy level	Variable increasing energy (VE) 150j to 360j
Battery	Intellisense ® with lithium



Accessories



Holder for wall-mounting

Tecnoheart holder with rear accessory pocket and expiry date inspection window.

Art. 930328



Identificate sign

Art. 930315

Accessories

Baby pair plates with key

Art. 930313



Battery

Art. 930314



Pair plates

Art. 930312

CMS

Mobile first aid centre

Any emergency requires paying maximum attention to both organizational and operating aspects. With this view rationalization of the equipment is an essential aspect. Tecno-Gaz S.p.A. has created a "Mobile First Aid Centre (CMS)".

During any emergency speed is the prime factor. For this reason being able to use a mobile centre that is ready for use is undoubtedly the ultimate operating solution.

Support surface

Medicine holder opening

Removable compartment containing resuscitation kit

This solution enables users to have a structure that features:

- a resuscitation set
- a defibrillator
- a drug kit
- a multi-parameter monitor
- a pulse-oximeter

CMS

Width	505 mm
Height	895 mm
Depth	475 mm
Weight	48 Kg



Ask the expert

Who needs this?

Designed for studios able to satisfy needs linked to medical emergency.

Why CMS?

A truly rational and complete solution that allows for the management of emergencies in the best possible way. A very high quality product at a very economical price. An investment that will last a lifetime.



Art. 930360
Mobile CMS



Frame and click!
Use your mobile phone
to get more information
about this issue.



First Aid

Lamp surgery

Illuminate your work and respect your eyes

Surgical lighting



Conventional light



Luce D40
wall-mounted version
page 92

LED vision lamp

Slim LED lamp



Slim
ceiling version
page 98



Unique Advantages

- Option to have appropriate lighting for inspections, diagnostic, simple surgery, complex surgery.
- Optimum "visibility" for the doctor.
- Greater ability to make out details.
- Distinction between venous and arterial blood.
- Easier identification of colour.
- Removes any overheating.
- Depth of focus always perfect.



Luce D40
trolley version
page 92

Luce D60
wall-mounted version
page 95



Led Vision
satellite version
page 96

Led Vision
trolley version
page 96



Slim
trolley version
page 98



Surgical lighting

Surgical lighting

The lighting of the surgical field during outpatient surgery is a priority. Many professionals, such as dentists, dermatologists and gynaecologists, carry out diagnostic, inspection and surgical activities. Good and appropriate lighting allows for improved efficiency, keeping vision protected.

Scialitic surgical lamps LIGHT D LINE

True colour reproduction

The reflective components of our lamps are treated with special multi-layered "SUN LIGHT" inserts that allow optimum reflection and ensure an index of chromatic yield (IRC) equivalent to 94 Ra. A great technical result that guarantees operators a chromatic yield similar to natural light, even in the most extreme conditions.

Depth of light

To provide maximum depth Tecno-Gaz lamps have been designed with reflective components with geometry composed of dozens of interconnected ellipsoids, which direct the rays of light into a cone of light that can illuminate deeply.

Eliminating shadows

The structures of the elliptical parabola are specially designed to reflect thousands of pinpoint rays of light onto the surgical field, allowing for the elimination of any kind of shadow.

Cold light

Tecno-Gaz has paid particular attention to this issue, adopting special "RMS97" filters that absorb and eliminate infra-red rays generated by halogen bulbs, guaranteeing a cold light.

Colour temperature

The "sun-light" coating applied to the ellipsis and "dichroic" coating applied to the parabola, raise the colour temperature to 4.200 °K, guaranteeing a white light similar to that of the sun and thus ensuring the surgeon's well-being and absolute visual precision.





Parabolic surgical/scialitic lights

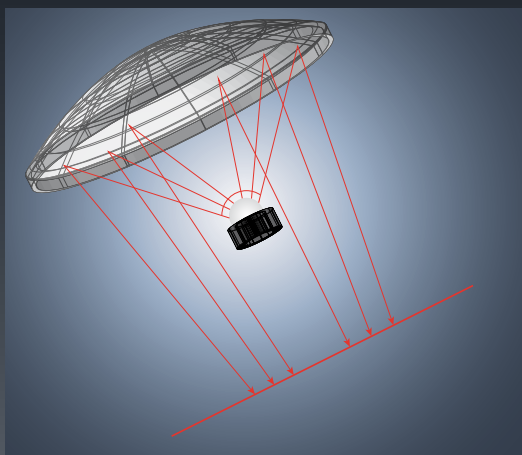
Surgical/ scialitic parabolic lights are created to be used in operating room, therefore ergonomic solutions and structures which allow you to **operate adopting the optimal light conditions.**

Scialitic surgical lamps LIGHT L LINE AND SLIM



LED light

The numerous and undisputed advantages of LED technology are the reason for its rapid development in all fields. SLIM is an LED lamp for outpatient and diagnostic use. The clear, cold light of SLIM 5.000 °K faithfully reproduces colours, ensuring optimum detail definition, an important prerequisite for various outpatient specialities.



Indirect light

The physical principle of reflection is the basis of Tecno-Gaz's lamps and is applied through a system of ellipses. These, in fact, reflect the rays of light emitted by the LEDs onto the area to be illuminated, thus obtaining an increased level of light intensity with a more limited number of LEDs: more than 50.000 lux at a distance of 1 metre with only 12 LEDs.

Indirect light has some notable advantages:

- it does not glare
- it does not tire out sight and encourages concentration
- it satisfies all the demands of vision in the diagnostic environment and in minor surgery.



Cold light

It does not emit infra-red rays: meaning a totally cold light. This is the fundamental prerogative of the very best scialitic lamps, as it avoids tissue dehydration during the procedure, and makes the work of the surgeon easier and more comfortable.

Luce D40

Scialitico surgical lamps



Benefit • Lighting intensity

100.000 Lux

Surgical techniques in medicine have become more sophisticated and demanding, therefore the actions of the operators must not be dependent on anything else. The intervention of more than one person and the position of the dentist's body often create shadows affecting the doctor's work.

The new single-lamp surgery lights from Tecno-Gaz eliminate all these problems, guaranteeing perfect lighting, even in the event of parallel working.

Ceiling version

Art. 330-SR-2

Operating adjustments

The vertical arm has an angle of 97° with a range of 1455mm. It is balanced by a compression spring and can be adjusted over time if necessary. **It is light and special bushings stabilise it in any position.**

Stands for ceiling fixing created according to the height of the ceiling.

Luminosity adjuster

Lighting intensity is electronically adjustable with a potentiometer from 20,000 Lux up to maximum intensity. **The surgeon can set the desired lighting intensity** according to the type of surgery.

Parabola internal Layered

Natural glass
Anti-blinding

Autoclavable handle, for adjusting the spot light.



Ask the expert

Who needs this?

All doctors.

Why a surgical lamp?

A doctor operates in dark and irregular cavities therefore the need for better lighting is a vital one. **Lighting helps you to work better, with less visual stress and protects the sight of the operators.**



Frame and click!
Use your mobile phone to get further information about this issue.





Unique characteristics

- **Perfect and broad** lighting of the surgical field.
- Beneficial to the doctor's sight, which also has a **"visibility" that is greatly superior to current methods of lighting.**
- Optimum ability for making out details.
- Distinction between **venous and arterial blood.**
- **Better colour identification.**
- **Reduction** in the emission of heat.
- **Focus** is always **perfect.**

Depth

Light rays generated by the bulbs are reflected by the "elliptical" reflector onto the surgical field in pinpoints, ensuring that the light is constantly focused and three-dimensional. Thanks to this principle the light is always focused at a minimum distance of 60cm from the reflector.

Cold light

Special "RMS97" filters eliminate the infra-red rays generated by the halogen bulb, in order to safeguard against tissue dehydration during the procedure and to facilitate the surgeon's work.

Spotlight control

The spotlight can be adjusted manually using the special handle located at the centre of the reflector. This handle can be easily removed in order to undergo sterilization.

Elliptical reflector

This is made of aluminium and dozens of interconnected ellipsoids. The elliptical shape guarantees optimum lighting intensity with a low voltage halogen bulb, and the reflected light is always focused. The elliptical reflector has a "mirror" coating to increase the reflection and a "sun-light" coating to raise the colour temperature to 4.200 Klux with a colour rendering index equivalent to 94 Ra.

Aluminium structure

The "light-struc" load-bearing structure of the lamp is an aluminium tube of 45mm in diameter. This feature facilitates mounting without the need for mechanical lifting equipment, making the product ideal for all types of ceilings and easy to manoeuvre, and facilitates heat dissipation.

Optional * as standard with D60 models, on request with D40 models



Automatic lamp Changing System *

The lamps are equipped with a block composed of 2 halogen bulbs which are electronically controlled; **in the event of a failure in the main bulb the second bulb automatically comes into operation in place of the faulty one.** Simultaneously, a LED located on the cover of the lamp starts flashing indicating that the main bulb requires replacing.



Lamp replacement indicator*

An LED indicator is located on the cover that will start to flash, attracting the operator's attention so that the faulty bulb can be replaced.





Models available

Ceiling version

Art. 330-SR-2

Satellite version

Available on demand

The Tecno-Gaz lamps can be supplied in satellite versions, in various combinations on request.

Wall-mounted version

Art. 350-SR-2

On trolley version

Art. 340-SR-2

On request

Every Tecno-Gaz lamp can be fitted with an emergency battery battery charger and electrical circuit.

Luce D40

Lighting intensity at 1m with a temperature of 4.200K $\pm$ 5% - voltage 22.8V: 100.000 Lux

Main bulb	100 W
Spare bulb	(100) ³ w
Automatic switch to replacement bulb with flashing light indicator	(100) ³ w Optional (Elettronic DLE Device) ²
Approximate average life of bulb at 22,8V. ¹	1.000 h. $\pm$ 10%
CRI (Colour rendering Index)	92 > < 94 Ra
Light field diameter adjustable using sterilizable handle	100 - 180 Ø mm
Depth of field without need for focus IEC 60601-2-41	1.140 mm
Focusable from - to	60 - 200 cm
Infra-red ray absorption	98 %
Infra-red filter	RMS97
Temperature increase at head height	2 °C
Diameter of the elliptical reflector	360 mm

Diameter of the reflector	400 mm
Lighting surface of the dome	698 cm ²
Sterilizable handle	1
Colour	RAL 7035
Weight without anchoring tube	20 - 30 - 26 Kg
Power requirements	230/110 V

Standards

IEC 60601-1, IEC 60601-2-41, MDD 93/42 CEE, class 1 medical device	Yes
EMC 601-1-2	Yes
Battery group with automatic charger 1 or 3 hours, maintenance free	Optional

¹ Details subject to change based on different voltages power surges or frequency of use.

² Optional

³ With DLE system (spare bulb) lighting intensity is reduced by 10%.

Luce D60



Frame and click!
Use your mobile phone
to get further information
about this issue.

Art. 310-SR-2
Luce D60
Ceiling



Ceiling version

Art. 310-SR-2

Luminosity adjuster

Lighting intensity is electronically adjustable with a potentiometer from 20.000 Lux to the maximum intensity. The surgeon can set the desired lighting intensity corresponding to the type of procedure.



Benefit • Lighting intensity

150.000 Lux

On request

Each Tecno-Gaz lamp can be equipped with an emergency battery, battery charger and electrical circuit.

Standard

Automatic lamp changing system*

The lamps are fitted with a block composed of 2 halogen bulbs, electronically controlled in the event that the main bulb stops functioning, the second bulb will automatically replace the faulty one. At the same time, an LED located on the lamp's cover will start to flash, indicating that the main bulb needs to be replaced.



Lamp replacement indicator*

An LED indicator is located on the cover that will start to flash, attracting the operator's attention so that the faulty bulb can be replaced.

Surgical lighting

Luce D60

Light intensity at 1 mt. distance with colour temperature of 4.200K $\pm$ 5% - at voltage 24V: 150.000 Lux

Main bulb	150 W
Spare bulb	150 W
Automatic switch to replacement bulb with flashing light indicator	2 MCC card
Approximate average life of bulb at 22,8V. ¹	2.000 h. $\pm$ 10%
CRI (Colour rendering Index)	92 > < 94 Ra
Light field diameter adjustable using sterilizable handle	150 - 220 $\varnothing$ mm
Depth of field without need for focus IEC 60601-2-41	1.150 mm
Focusable from - to	60 - 200 cm
Infra-red ray absorption	98 %
Infra-red filter	RMS97
Temperature increase at head height	2 °C
Diameter of the elliptical reflector	560 mm

Diameter of the reflector	600 mm
Lighting surface of the dome	2.318 cm ²
Sterilizable handle	1
Colour	RAL 7035
Weight without anchoring tube	45 Kg
Power requirements	230/110 V

Standards

IEC 60601-1, IEC 60601-2-41, MDD 93/42 CEE, class 1 medical device	Yes
EMC 601-1-2	Yes
Battery group with automatic charger 1 or 3 hours, maintenance free	Optional

¹ Details subject to change based on different voltages power surges or frequency of use.

Led Vision L30

Surgical lighting



Ceiling version

Art. 364-S2



Benefit • Lighting intensity

100.000 Lux



Innovative technology



Innovative Technology LED vision is an extremely high-technology device designed to guarantee excellent service. LED Vision is made up of 30 elliptical reflectors subdivided into 6 units of 5 LEDs each. Indirect light: 30 elliptical reflectors, the result of a complex mathematical calculation, reflect the rays of light from the LED in pinpoints to ensure three-dimensional lighting and the elimination of shadows on the surgical field.



Ask the expert

Who needs this?

All doctors.

Why a LED technology light?

- **It has very few maintenance costs:** in fact, the average life of an LED is 50,000 hours and it also does not burn out. Therefore it will not go dark and the average life of the lamp is 25 times greater than a traditional lamp.
- **It is completely ecological and simple to dispose of.** In fact, unlike traditional light sources, LED's do not contain mercury, toxic gases, filaments or fragile parts.
- **It is a safe product for long term use, thanks to strict thermal and electrical testing.** Every small detail has been designed, planned and tested by our Research Centre.



Frame and click!
Use your mobile phone to get further information about this issue.





Models available



Ceiling version

Art. 364-S2



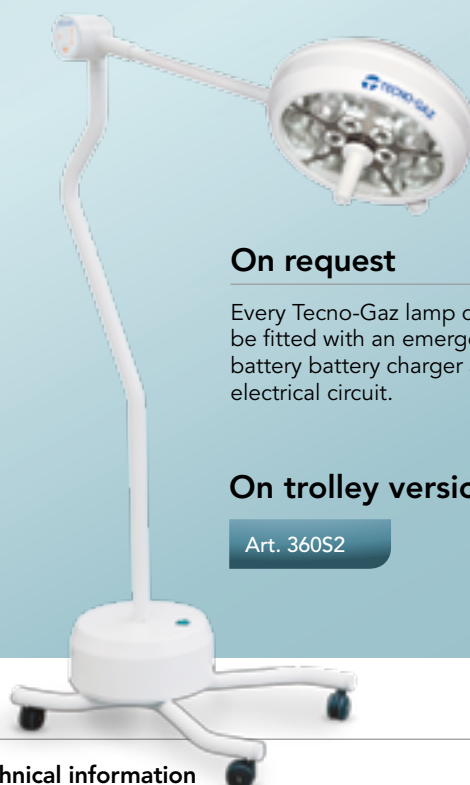
Satellite version

Art. 369S2



Wall-mounted version

Art. 362-S2



On request

Every Tecno-Gaz lamp can be fitted with an emergency battery battery charger and electrical circuit.

On trolley version

Art. 360S2

Led Vision L30

Technical information

Light intensity at 1 mt.distance (Ec)	100.000/60.000 Lux
Temperature of the colour of irradiated light	4.500/5.000 °K
Index of chromatic performance	94/90 Ra
Diameter of luminous field at 50% of luminous intensity	90 mm
Diameter of luminous field at 10% of luminous intensity	200 mm

Electrical features

Transformer c.a. 50/60Hz	63 VA
Electrical absorption	70 W
Light source	Led n°30
Control of light intensity	Electronic
Endurance of Led	50.000 hours

Technical information

Depth of illuminance IEC 60601-2-41 (L1+L2) at 20%	1050 mm
Total energy irradiated at max level of lightening	112 W/m ²
Relation between irradiated energy and lightening	1,1 mW/m ² .lx
UV energy irradiated for a wavelenght minor than 400 nm	0,002 W/m ²

General data

Colour	RAL 9003
Min. Height of the room	270 cm
Directive	93/42/CEE
Rules	IEC 60601-2-41
Class of product	Medical Device Class I

Optionals

Battery pack complete with battery charger endurance up to 8 hours	on demand
Transformer for different voltages	on demand

Slim

Lamp with
LED technology

Surgical lighting



Screen
protective

Small parabola
internal layered

Luminosity adjuster

Lighting intensity is electronically adjustable with a potentiometer from 20,000 Lux up to maximum intensity. The surgeon can set the desired lighting intensity corresponding to the type of procedure.

Ceiling version

Art. 370S2

Stands for ceiling fixing
created according to the
height of the ceiling.



Autoclavable handle,
for adjusting the spotlight.

Ergonomic

The circular reflector, designed to perfectly illuminate the working field and to eliminate all types of shadows, is fitted with easy to use side handles making it easy to position. The lighting component is ultra-flat so as not to hinder the operator and is fitted with an ultra-resistant polycarbonate screen that guarantees protection against accidental impact. **SLIM can be easily positioned thanks to its rotation on 4 axes:**

- the structure can move laterally for 360° without locking
- the vertical movement of the arms is balanced by a compression spring.
- the reflector can be rotated both on the vertical and horizontal axes.

Movements are possible using the sterilizable handle. The lower part of the reflector incorporates, as well as a master switch, a digital control to adjust luminosity, with an LCD display of the intensity setting. **The ergonomic design guarantees increased manoeuvrability and the versions available, ceiling and upright, allow it to be used in any outpatients' clinic or laboratory.**



Benefit • Lighting intensity

50.000 Lux

Versatile

The characteristics of **SLIM** make it a unique lamp. The lighting intensity (more than 50,000 lux at 1 m) and its technical performance make it suitable as a lamp for small, precise procedures, intensive care units, recovery rooms and first aid; **while its manageable, non bulky structure** makes it suitable also during diagnosis, in pre-operating rooms and analysis laboratories.

Ask the expert

Who needs this? Why an LED lamp?

All doctors.

The numerous and undisputed advantages of LED technology are the reason for its rapid development in all fields. SLIM is an LED lamp for outpatient and diagnostic use. The clear and cold light of SLIM 5.000 °K, faithfully reproduces colours ensuring optimum detail definition, important for the various outpatient specialities.



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about this issue.





Models available

Ceiling version

Art. 370S2

Wall-mounted version

Art. 373S2

Unit version

Art. 371S2

Trolley version

Art. 372S2



Quality and innovative technology



The smaller size and advanced technology that make this **SLIM lamp** stand out are the result of proven experience recognised on an international level. This product is a perfect combination of technological progress, innovative design and typically Italian quality.



Lighting intensity adjustment

The lamp is fitted with an electronic lighting intensity adjuster, **able to adjust from 25,000 to 50,000 lux.**



Handles

It is equipped with handles making the lamp easy to manoeuvre up to 360°, **easy for the operator to dismantle and completely autoclavable.**

Slim

Voltage	100÷230 V~ 50÷60 Hz	Diameter of the light field diameter at 10% of the lighting intensity	140 mm
Electrical absorption	30 W	Depth of lighting IEC 60601-2-41 (L1+L2) at 20%	150 (30/180)
Light source	Led n°12	Total irradiated EE energy when lighting reaches the max level	119 W/m ²
Average LED life	50.000 ore	Relationship between irradiated EE energy and EC lighting	2,38 mW/m ² .lx
Illumination control	50 ÷ 100 %	UV energy irradiated for a wavelength below 400 nm	0,001 W/m ²
Lighting intensity at a distance of 1m (Ec)	50.000 Lux		
Diameter of the light field diameter at 50% of the lighting intensity	85 mm		

Various - surgery

Improve your efficiency

Various - surgery



Medical chair,
liquid heater and
mixer for alginates



Bridge table
page 102



Radiology

X-ray view boxes
page 103



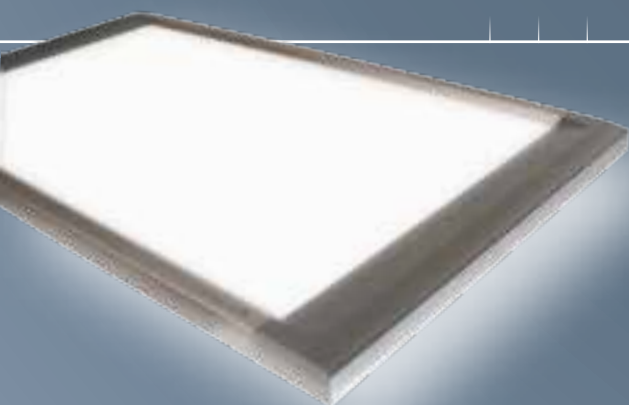
Overall project

As well as its many product lines, Tecno-Gaz offers a series of small pieces of equipment designed to improve and complete operators' everyday work.

All the devices have been created in order to improve performance and to rationalise surgery times and methods.



Surgical trolley
page 102



MediCanvass
page 104



Devices that improve your daily working life

In order to complete the basic equipment that a medical surgery must have **Tecno-Gaz s.pa.** has a wide range of indispensable products for every operator.



Bridge table

A bridge table created in 18/10 stainless steel, with adjustable height, characterised by a broad solid surface, allowing the physician to have all the materials he needs within reach in order to work better, without the help of further surfaces. The surgeon also has the chance to position the work surface over the patient's chest, eliminating the risk of instruments falling accidentally. The bridge table is electro-polished by immersion in order to guarantee lower bacterial adhesion. Two of the 4 wheels are fitted with brakes.

Bridge table

Min. Height	95 mm
Max Height	155 mm
Tray dimensions	600 x 900 mm
Weight	15 Kg

Instrument table

The hydraulic table is created entirely from stainless steel, with 4-spoke cast aluminium feet. Completes the equipment of every medical operating room. The hydraulic steering column allows for quick adjustment of the height of the work surface. The tray allows for the storage of a large number of surgical instruments. The table is electro-polished by immersion in order to guarantee lower bacterial adhesion.

Instrument table

Min. Height	89 mm
Max Height	124 mm
Tray dimensions	730 x 470 mm
Weight	31,5 Kg



Ask the expert



Who needs these?

All medical surgeries that carry out surgery.

Bridge table

Art. 1498E



Frame and click!
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Instrument table

Art. 1499E



Frame and click!
Use your mobile phone to get further information about this issue.



X-ray viewing boxes

Pleasant and innovative design

ART. 7085/N: formed from unbreakable material, it features a simple and rapid mounting device for radiographs. Its design allows it to be used either wall mounted or on the workbench. Illumination is by means of a fluorescent lamp (6500° K) fitted to an unbreakable opaline diffuser.

Art. 7086N2: painted steel structure and stainless steel profiles model. Fluorescent cold light (6.500°K). Unbreakable white monochromatic diffuser with supporting device.

Various - surgery

Art. 7085/N



Art. 7086N2



Conventional Tecno-Gaz X-ray view box

Frame 7085/N		Viewing Ares	
Width	456 mm	Width	400 mm
Height	379 mm	Height	300 mm
Depht	55-95 mm		

Frame 7086N2		Viewing Ares	
Width	832 mm	Width	800 mm
Height	456 mm	Height	425 mm
Depht	140 mm		



Ask the expert

Who needs this?
All medical clinics.

Why MediCanvas X-ray viewing boxes?

Because they respond to various needs and are split into **two extremely versatile models that can be easily inserted into your surgery.**



Frame and click!
Use your mobile phone to get further information about this issue.

- Art. 7085/N**
Plastic material
- Art. 7086N2**
Varnished steel



MediCanvas

TFT-LCD MEDiCanvas X-ray view boxes

Tecno-Gaz MediCanvas X-ray view boxes use TFT-LCD technology and are at the top of the market as regards quality, aesthetics and technology.

A prestigious product that will not only improve your operating efficiency, giving your surgery added value, but that also has a striking aesthetic impact.

All MediCanvas X-ray view boxes are already fitted out for wallmounting, and items 7072-N 7074-N may be used standing on the table, with the aid of the appropriate support. These negatoscopes are equipped with a device that allows automatic FAS turning on and turning off when you insert the x Ray.

Advantages



Excellent light uniformity

Computer screen technology is used to provide total light **uniformity** and this facilitates the reading of the X-ray and avoids the operator straining their eyes.



Easy X-ray reading

MediCanvas uses CCFL technology that **guarantees the emission of cold blue light at 8.600° Kelvin**, allowing for better definition when consulting X-rays.



Reduced eye fatigue

The CCFL system uses a frequency of 40,000 times per second. **This method avoids any movement of the lamp**, unlike in traditional X-ray viewing boxes, noticeably reducing eye fatigue.



Long-life lamp

The MediCanvas lighting system **lasts for approximately 10 years without specific maintenance**, thanks to the CCFL system that ensures time and cost savings.



MediCanvas design and quality

MediCanvas X-ray viewing boxes are available in 4 different sizes, designed for every need. The main distinguishing feature of these products is their reduced thickness that varies from 24 to 39 mm. Their absolutely extraordinary aesthetic impact and their presence provides a very professional look to any environment.



Ask the expert

Who needs this?

All medical clinics.

Why MediCanvas X-ray viewing boxes?

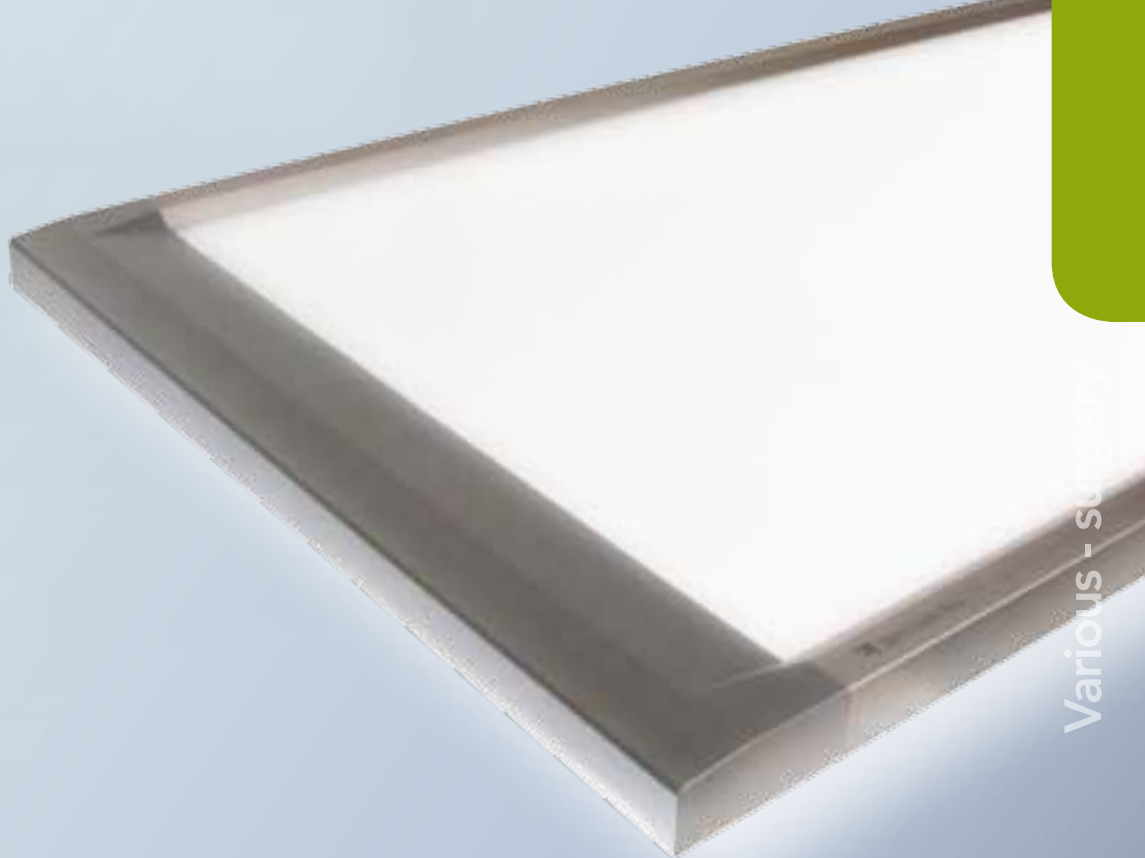
An innovative product that makes use of technology to improve your work. A pleasantly designed, **high-quality product**.



Frame and click!

Use your mobile phone to get further information about this issue.





Art. 7072-N



Art. 7074-N



Optional

Frame 7077-N

Counter support for
MediCanvas X-ray viewing box
Art. 7072-N

Frame 7079-N

Counter support for
MediCanvas X-ray viewing box
Art. 7074-N



X-ray viewing box MediCanvas with TFT-LCD technology

Frame 7072-N

Width	498 mm
Height	482 mm
Depth	28 mm

Viewing ares 14x17"

Width	356 mm
Height	423 mm

Frame 7074-N

Width	854 mm
Height	482 mm
Depth	28 mm

Viewing ares 28x17"

Width	711 mm
Height	423 mm

Surgical suction units

Surgical suction units



**Surgical suction units
Tecno 16-15-25**

Tecno 16-B
page 108



**Surgical suction units
Tecno 40-70-100**

Tecno 40-70
page 111



Overall project

Tecno-Gaz offers a complete range of vacuum suction units, with models ranging from 15,16,25,40,70 actual liters, up to the top of the line model, the 100 actual Ltrs.

Every aspect of the line TECNO has been studied and designed for maximum ease of use and to facilitate the routine processes of periodical maintenance.

Unique benefits

- Ensuring the use in any operating situation
- Saving time and money
- Provide the maximum legal guarantees

Tecno 15-25
page 109



Tecno 100
page 112



Surgical suction units



Why choose the Tecno surgical suction units

The family of surgical suction units TECNO consists of a wide range of models, suitable for any operational needs. The line TECNO is suitable for use in hospitals, clinics and nursing homes, all the emergency situations related to the emergency, for veterinary medicine, and in all those special situations where it is necessary to perform surgical aspiration.



Tecno 16-B

Surgical suction units

A wide range of models suitable for every operative demand composes the family of SURGICAL SUCTION UNITS TECNO line. **TECNO line can be used in hospitals, surgeries and nursing homes, situations connected to the emergency rescue and veterinary surgery**, and in all those particular situations where it's necessary to make a surgical suction.

Tecno-Gaz proposes a complete range of aspirators starting from models with a real capacity of 15,16,25,40,70 liters, up to the top model of the range with a real capacity of 100 liters.

Every detail of line TECNO has been studied and designed in order to grant the maximum simplicity of use and to simplify the processes of ordinary maintenance.

TECNO 16-B

TECNO 16-B is a surgical suction unit with rechargeable battery. All operative functions and the status of charge of the battery are displayed on the frontal panel of the unit.

TECNO 16-B can be used also during the recharging and, thanks to its particular features that allow to move it easily, it's suitable for the use in every operative situation. **The sucking part has been studied to grant a continuous use, the external container, with a modern and pleasant design, is made of a plastic material and can be easily sanitized.**



Basic equipment

- 1 liter capacity autoclavable container
- non return system with safety device
- silicon pipes
- antibacterial filter
- cable for recharge of battery

Optional

- 2 liters capacity autoclavable container



Ask the expert

Who needs this?

All medical clinics.

Why Tecno 16-B

Because it guarantees high performance and cutting-edge technical solutions. The bacterial filter is disposable and detached from the main unit body. In case of leakage nothing gets dirty.



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Art. 111-A
Tecno 16B



Tecno 15-25

Surgical suction units

Models TECNO 15 and TECNO 25 are electrical fed suction units, studied to be easily moved, therefore suitable to be used in all places where a surgical suction is necessary. TECNO 15 and TECNO 25 are particularly suitable to perform their duty in little surgery like outpatient and domiciliary treatments, as help for patients subject to tracheotomy, and in all routine cases

where surgical suction is necessary.

Functional and light TECNO 15 and TECNO 25 can be easily disinfected and have been designed in order to satisfy needing of continuous operativeness, therefore they're able to bear high working stress.



Surgical suction units



Basic equipment

- 1 liter capacity autoclavable container
- non return system with safety device
- silicon pipes
- antibacterial filter

Optional

- 2 liters capacity autoclavable container



Ask the expert

Who needs this?

All medical clinics.

Why Tecno 15-25

Because it guarantees high performance and cutting-edge technical solutions. The bacterial filter is disposable and detached from the main unit body. In case of leakage nothing gets dirty.



■ Art. 112-A
Tecno 15

■ Art. 113-A
Tecno 25

■ Art. 115-A
Tecno 15 (2 lt.)

■ Art. 116-A
Tecno 25 (2 lt.)



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about this issue.



Tecno 16 - 15 - 25

General data

	TECNO16 B	TECNO15	TECNO25
EN ISO 10079-1			
Surgical aspirator	high vacuum low flow		high vacuum low flow
EN ISO 60601-1	Class 1	Class 1	Class 1
Protection against electrical risks	Class 1	Class 1	Class 1
Protection against direct indirect contacts	Part applied B	Part applied B	Part applied B
Level of protection against penetration of substances	IPX1	IPX1	IPX1
Level of protection in zone AD-FT (CE164-4)	Not suitable	Not suitable	Not suitable
Degree of safety in presence of anaesthetic mixtures and or explosives	Not suitable	Not suitable	Not suitable

Technical features

Electrical power supply	230V ~ 12 Volt d.c.	230V ~ 50 60 Hz.	230V ~ 50 60 Hz.
Electrical power (max)	25 W	180 W	140 W
Protezione elettrica	2 fuses ø 5x20 F2 on 250V	2 fuses ø 5x20 F2 on 250V	2 fuses ø 5x20 F2 on 250V
Batteria	12 Volt - 4 Ah	/	/

Suction

Pump	with non lubricated piston	with non lubricated piston	with non lubricated piston
Flow - max. pump flow rate	30 L /min.	30 L /min.	40 L /min.
Flow rate during use-stabilised flow rate (max.)	16 L /min.	15 L /min.	25 L /min.
Maximum depression	0,79 BAR	/	0,82 BAR

Collection vessels

No. of vessels	1
Capacity	1 L version and 2L version
Material	Polycarbonate or polysulfone on request
Disposable collection bag	On request
Overfull valve filter	Valve with float

Hydrophobic filter

Filtering capacity (bacterial viral)	0,2 µm (> 99,99999%)
Material	PTFE

Pipes

Material, diameter (mm)	Medical grade silicon ø internal =5 ø external =9
-------------------------	---

Vacuum adjustment

Vacuum adjustment valve	Installed with scale
Graduated vacuum gauge	ø 50 0 -1 Bar

Dimensions

Length	410 mm	410 mm	410 mm
Depth	205 mm	205 mm	205 mm
Height with 1L vessel (with 2L vessel)	260 (335) mm	260 (335) mm	260 (335) mm
Weight	5,6 Kg	4 Kg	4,4 Kg
Sound level	/	/	/
Use limitations	See instruction manual	See instruction manual	See instruction manual
Conformity	MDD93 42EEC - EN60601-1-2 - EN10079-1 - EN60601-1 (CE166-5)		
Expected technical life of the device	5 years	5 years	5 years

Tecno 40-70

Surgical suction units

TECNO 40 e TECNO 70:

- are centers of surgical suction wheel mounted that can be easily moved during the operations of use.
- have been designed to simplify the periodical operations of maintenance and cleaning.
- benefit of an innovative design solution, which allows using in the same structure 2 lt. and 4 lt. containers.
- are supplied with a vacuum switch and a suction regulator, available upon request device for manual deviation from full container to empty container, and pedal control.

Surgical suction units



Standard equipment

- 2 autoclavable containers with 2 lt. capacity
- non return system with safety device
- silicon pipes
- connection
- antibacterial filter

Optional

- 4 lt. Autoclavable container



Ask the expert

Who needs this?

All medical clinics.

Why Tecno 40-70?

Because it guarantees high performance and cutting-edge technical solutions. The three support wheels allow an easier and more comfortable transport, the lower deck is made of metal, not plastic and as a result it is more solid and stable.

Art. 121-A
Tecno 40

Art. 122-A
Tecno 70

Art. 144-A
Tecno 40 (4 lt.)

Art. 145-A
Tecno 70 (4 lt.)



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to get further information
about this issue.



Tecno 100

Surgical suction units

TECNO 100:

- is the **top surgical suction unit of the range**, designed and built to satisfy big operative demands, it's the unique product on the market able to grant a **real suction capacity of 100 lt.**
- is **wheel mounted in order to facilitate the movements** and it's also equipped with a forced cooling system able to assure an extraordinary operative performance, **even if forced to great loadings of work.**
- is also equipped with a **pedal suction control and two 4 lt. containers.**
- can be easily cleaned and also the maintenance is very simple, it's **equipped with vacuum switch and suction regulator.**
- Available upon request device for manual deviation from full container to empty container.



Standard equipment

- 2 autoclavable containers with 4 lt. capacity
- non return system with safety device
- silicon pipes
- connection
- antibacterial filter



Ask the expert

Who needs this?

All medical clinics.

Why Tecno 100?

Because it guarantees high performance and cutting-edge technical solutions. The three support wheels allow an easier and more comfortable transport, the lower deck is made of metal, not plastic and as a result it is more solid and stable.



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to get further information
about this issue.

Art. 146-A
Tecno 100



Tecno 40 - 70 - 100

General data

	TECNO 40	TECNO70	TECNO100
EN ISO 10079-1			
Surgical aspirator	high vacuum high flow	high vacuum high flow	high vacuum high flow
EN ISO 60601-1	Class 1	Class 1	Class 1
Protection against electrical risks	Part applied B	Class 1	Class 1
Protection against direct indirect contacts	IPX1	IPX1	IPX1
Level of protection against penetration of substances	Not suitable	Not suitable	Not suitable
Degree of safety in presence of anaesthetic mixtures and or explosives	Not suitable	Not suitable	Not suitable

Technical features

Electrical power supply	230V ~ 12 Volt d.c.	230V ~ 50 60 Hz.	230V ~ 50 60 Hz.
Electrical power (max)	250 W	420 W	405 W
Current intensity	1.02 A	1.06 A	1.09 A
Inrush current intensity	3.09 A	5.07 A	5.08 A
Electrical protection	2 fuses ø 5x20 F 3.15 on 250 V	2 fuses ø 5x20 F 6 on 250 V	2 fuses ø 5x20 F 6 on 250 V
Maximum depression	-0,9 BAR	-0,9 BAR	-0,9 BAR

Suction

Pump	with non lubricated piston	with non lubricated piston	with non lubricated piston
Flow - max. pump flow rate	50 L /min.	90 L /min.	120 L /min.
Flow rate during use-stabilised flow rate (max.)	40 L /min.	70 L /min.	100 L /min.
Maximum depression	-0,9 BAR	-0,9 BAR	-0,9 BAR

Collection vessels

No. of vessels	1
Capacity	2 L version and 4L version
Material	Polycarbonate or polysulfone on request
Disposable collection bag	On request
Overfull valve filter	Valve with float

Hydrophobic filter

Filtering capacity (bacterial viral)	0,2 µm (> 99,99999%)
Material	Micro-Glass Fibrepaper

Pipes

Material, diameter (mm)	Medical grade silicon ø internal =8 ø external =14
-------------------------	--

Vacuum adjustment

Vacuum adjustment valve	Installed with scale
Graduated vacuum gauge	ø 63 0 -1 Bar

Dimensions

Length	540 mm	540 mm	540 mm
Depth	480 mm	480 mm	480 mm
Height with 1L vessel (with 2L vessel)	850 mm	850 mm	850 mm
Weight	16 Kg	19 Kg	20 Kg
Sound level	/	/	/
Use limitations	See instruction manual	See instruction manual	See instruction manual
Conformity	MDD93 42EEC - EN60601-1-2 - EN10079-1 - ISO9001 - EN60601-1 (CE166-5)		
Expected technical life of the device	5 years	5 years	5 years

Tecno 40 - 70

Accessories - Optional

Disposable with hydrofobic filter

Art. SB1A308

Vessel re-usable for 2l bag

Art. SB1A309

2L vessel re-usable for 3l bag

Art. SB1A302

Disposable 2l vessel complete with disposable lid with hydrophobic filter



Art. SB1A303

Disposable 3l vessel complete with disposable lid with hydrophobic filter



Art. SB1A305

Disposable 2l bag complete with lid with hydrophobic filter

Art. SB1A306

Disposable 3l bag complete with lid with hydrophobic filter

- Available for Tecno 40 - Tecno 70 only



Containers and disposable bags (disposable tubes available in pvc)

Art. SB1A311

Disposable 2l vessel complete with disposable lid with hydrophobic filter and disposable tube.

Dimensions 8x11 cm • Length 1,8 Mt

Art. SB1A312

Disposable 2l vessel complete with disposable lid with hydrophobic filter and disposable tube. (5 pcs)

Dimensions 8x11 cm • Length 1,8 Mt

Art. SB1A314

Disposable 2l bag complete with lid with hydrophobic filter and disposable tube. (10 pcs)

Dimensions 8x11 cm • Length 1,8 Mt

Art. SB1A315

Disposable 2l bag complete with lid with hydrophobic filter and disposable tube. (10 pcs)

Dimensions 8x11 cm • Length 1,8 Mt

Accessories: tandem containers

Art. SB1A292

Tandem connection tube (50 pz)

Dimensions 8x11 cm • Length 0,38 Mt



Art. SB1A294

Disposable vacuum stop lances (10 pz)

Disposable vacuum stop lances may be fitted on the end of the suction tube.



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Medical Line

For Medical professionals
2° Edition



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