

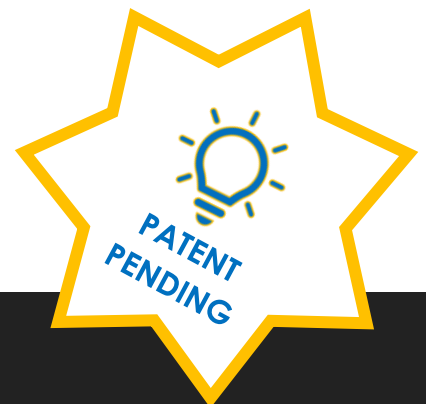
# BIO INERTIZER

## KOSMOS

## CARONTE

SMART SOLUTIONS FOR THE SAFE AND AUTOMATIC DISPOSAL OF DISPOSABLE TNT DEVICES (FACIAL FILTERING DEVICES, GLOVES, CAPS, OVERSHOES) AND OTHER WASTE.

**SPECIAL PRODUCT 2020**



# KOSMOS

The **new device for the correct and safe disposal of waste, whether they are used disposable TNT protective devices**, such as facial filtering devices, overshoes, caps and gloves, or any type of waste that may have been contaminated, such as containers or packaging for drinks or foods.

**KOSMOS** it is entirely built in stainless steel and has a maximum size of L. 85 x W. 58 x H.110 cm.

It can be used in an industrial and civil context. It has a maximum consumption of 50W / h and a 230Vac power supply.

**KOSMOS** treats all waste **with a UV-C and ozone sanitizing process**, also allowing for its differentiation thanks to the double collection bag. **This process prevents the proliferation of mold, bacteria, viruses and ensures the correct and safe disposal of waste, including potentially contaminated disposable TNT devices.**



MEDICAL CENTERS

BEAUTY CENTERS

HAIRDRESSERS

PUBLIC OFFICES

STORES AND MARKETS

PUBLIC PLACES

SHOPPING CENTERS

RESTAURANTS



Using **KOSMOS** is simple and intuitive: the user can open **KOSMOS** with a pedal and **without touching any part of the machine**, he can throw up to two types of waste inside it, such as, for example, **indifferentiable or differentiable (including DPI in TNT synthetic material, paper, plastic)**.

**KOSMOS** contains two collection bags, each of 110Lt, therefore it is possible to differentiate two types of waste.

Releasing the pedal, **KOSMOS** closes and starts the inerting cycle **without the need for any type of operation by the user**.

In a completely automatic way, waste is inerted with a cycle regulated by a timer through the combined action of **UV-C rays and ozone** and stored in two collection bags, each of 110Lt.

**The combination of ultraviolet rays (UVC) and ozone allows a high disinfection of viruses and bacteria, reaching even the innermost and shaded parts, which are not irradiated by UV rays.**

The effectiveness of this technology is also reported in the Covid-19 Report - n. 25/2020 issued by the Italian Istituto Superiore di Sanità, as well as attested by various scientific studies.



Once the collection bags have been filled, it will now be possible to open the lower door, closed with a safety key, and to extract the garbage bags, close them and confer them.

Thanks to **KOSMOS** you can be sure that **potentially contaminated waste** (masks, gloves, bottles of water, take-away food packaging) **are disposed of correctly**, that they are **not accidentally reused**, that they are **not dispersed in the environment**, that there is **no proliferation of molds, viruses, bacteria, etc. inside the collection bags** and therefore that **the health of the storage and disposal places is maintained**.



# CARONTE

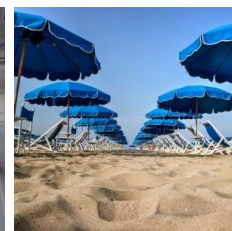
The innovative device the **correct and safe disposal of disposable protective TNT devices**, such as facial filter devices, overshoes, caps and gloves.



**CARONTE** it is entirely built in stainless steel for food use and has a maximum size of L. 73 x P. 53 x H.155 cm.

It can be used in an industrial but also civil context. It has a consumption of 700W/h and a 230Vac power supply.

**CARONTE** chops and treats the disposable TNT devices used, such as facial filtering devices, overshoes, caps, and gloves with a **UV-C sanitizing process**. This process **prevents the proliferation of mold, bacteria, viruses and guarantees the hygienic and safe disposal of disposable devices**.



SCHOOLS

FACTORIES

CONSTRUCTION SITES

PUBLIC OFFICES

PUBLIC PLACES

SHOPPING CENTERS

PUBLIC TRANSPORT

MEDICAL CENTERS



Once the door is closed, the visual signaling panel projects a **steady red light** preventing any other operation and the disposal cycle starts.

In a completely automatic way, the disposable TNT devices to be disposed of are **minced, sterilized by UV-C rays and stored in a 110Lt collection bag.**

The innovative shredding system has been specifically designed **not to be damaged in case of accidental insertion of other materials.**

Once the disposal is complete, the visual signaling panel will turn **green** and the user can use **CARONTE** again.

Using **CARONTE** is simple and intuitive. It is equipped with a visual signaling panel that gives two simple information: **green** when the machine is functioning and **red** when not in use.

When the front indicator indicates **green** light, the user can open **CARONTE** with a pedal and **without touching any part of the machine**, he can throw inside any disposable TNT device used and to be disposed of.

By releasing the pedal, **CARONTE** closes and starts the disposal cycle **without the need for any type of operation by the user.**



Once the collection bag has been filled, the visual signaling panel projects a **flashing red light.**

At this point it will be possible to open the lower door and extract the collection bag, close it, and throw it.

**CARONTE** is an extremely safe machine because operation is only active if the machine is completely closed and therefore inaccessible to the user.

Thanks to **CARONTE** you can be sure that disposable devices are **properly disposed of**, that they are **not accidentally reused**, that they are **not dispersed in the environment**, that there is **no proliferation of mold, viruses, bacteria, etc.** inside the collection bag and therefore that **the health of the storage and disposal places is maintained.**



## WHICH ONE TO CHOOSE?



MODEL	<b>KOSMOS</b>	<b>CARONTE</b>
FINISHING	entirely built in stainless steel	Entirely built in stainless steel
DIMENSIONS	<b>L. 85 x W. 58 x H.110 cm</b>	<b>L. 73 x W. 53 x H.155 cm</b>
WEIGHT	<b>60 kg</b>	<b>270 kg</b>
POWER SUPPLY	230Vac	230Vac
INSTALLED POWER	<b>50W</b>	<b>700W</b>
TECHNOLOGY	<ul style="list-style-type: none"> <li>- UVC waves, which act on the surfaces of objects ensuring a total antiviral action.</li> <li>- ozone O<sup>3</sup>, which allows to reach with the sterilizing action even the innermost parts of objects with complex shapes</li> </ul>	<ul style="list-style-type: none"> <li>- UVC waves, which act on the surfaces of objects ensuring a total antiviral action.</li> <li>- ozone O<sup>3</sup>, which allows to reach with the sterilizing action even the innermost parts of objects with complex shapes</li> </ul>
COMMAND	<p>Automatic sterilization management system</p> <p>Visual signalling system of the machine status (ready to use, in operation, containers full)</p>	<p>Automatic sterilization management system</p> <p>Visual signalling system of the machine status (ready to use, in operation, container full)</p>
EASY&SAFE OPENING	OPENING WITH PEDAL to avoid any contact between the device and the user	OPENING WITH PEDAL to avoid any contact between the device and the user
ACCESSORY FUNCTIONS	-	<b>SHREDDING FUNCTION</b> to avoid reuse of devices, with safety system for non-choppable objects (patent pending)
WASTE TYPE	<p>Personal Protection Equipment in TNT</p> <p><b>Other unsorted or differentiable waste</b></p>	Personal Protection Equipment in TNT
CAPACITY	Suitable for containing <b>no.2 garbage bags of 110lt each</b>	Suitable to contain <b>no.1 garbage bag of 110lt</b>

## WHY CHOOSE

## THE BIO INERTIZERS

### SAFE AND CERTIFIED TECHNOLOGY

The **germicidal ultraviolet radiation**, is a known sterilization method that uses ultraviolet light at the UV-C wavelength, which modifies the DNA or RNA of microorganisms and therefore prevents them from reproducing or being harmful. It is used in various applications, such as the disinfection of food, water and air.

Equally known is **ozone** as an energetic oxidant. Thanks to its power it is used as a disinfectant, deodorant, bactericide and sterilizer, in general for the disinfection of water, in the food and pharmaceutical fields, for the sanitization of the air in environments and in air conditioning and ventilation systems, in medicine in the treatment of bacterial or fungal infections.

**The combination of ultraviolet rays (UVC) and ozone allows a high disinfection of viruses and bacteria, reaching even the innermost and shaded parts, which are not irradiated by UV rays.**

The effectiveness of this technology is also reported in the Covid-19 Report of Italian Institute of Health - n. 25/2020, as well as attested by various scientific studies.

The **KOSMOS** and **CARONTE** BIO INERTIZERS produced by MIT SRL are devices suitable for the **industrial and civil context for the disposal of potentially contaminated, undifferentiable or differentiable waste**, including also specific disposable device for Covid-19 health management. BIO INERTIZERS use UV-C and Ozone technology to disinfect the waste that is thrown into them.

### SAFETY IN THE DISPOSAL OF POTENTIALLY CONTAMINATED WASTE

The current regulatory landscape, which requires the use of specific personal protective equipment for Covid-19 health management (masks, gloves, protective glasses, disposable coveralls), implies the responsible and precautionary management of personal protective equipment used inside especially companies, but also in highly frequented places and private environments.

For example, the Italian Institute of Health in the Covid-19 Report- n. 26/2020, regardless of the classification code of the waste, recommends **"to use containers dedicated to the collection of disposable masks and gloves"** and **"to adopt containers or in any case solutions that minimize the possibility of direct contact of the worker who gets rid of the mask / glove with the waste and the container itself "**. Furthermore **"the containers must be such as to ensure adequate ventilation to prevent the formation of potential condensation and consequent potential development of microorganisms, and preferably located in premises with adequate exchange of air and in any case protected from meteoric events"**.

Waste from personal protective equipment used in compliance with health requirements to counter the health emergency caused by the COVID-19 infection implies **special management** since the **correct denomination of the waste** must be guaranteed, which is the responsibility of the Producer and puts at the same time Administrators / Legal Representatives / Safety Managers and Environmental Managers in the face of **disputes regarding the waste management or the management of possible accidents at work caused by infections for COVID-19.**

As can be seen from the extensive existing scientific documentation, exposure to UVC rays and ozone for a certain time and concentration, you get:

1. an environment impeding the proliferation of viruses and bacteria;
2. an inertization of odors;
3. a disinfection of viruses and bacteria with a level of 99.999%.

In the **KOSMOS** and **CARONTE** BIO INERTIZERS there is an exposure to UVC and a confined concentration of ozone that exceed those identified at a scientific level. For this reason, the use of BIO INERTIZERS in the disposal of potentially contaminated waste ensures:

1. to adopt **a traceable and safe waste management practice** and therefore that **disposable devices are disposed of correctly**;
2. that **the waste they contain is inertized**, ie there is no proliferation of viruses and bacteria in the collection bag;
3. that there is **no cross contamination**;
4. that therefore **the waste they contain is no longer dangerous or contaminating**;
5. that **odors are eliminated**;
6. that **the health of the places of accumulation and disposal is maintained**;
7. that the **waste is not dispersed in the environment**.

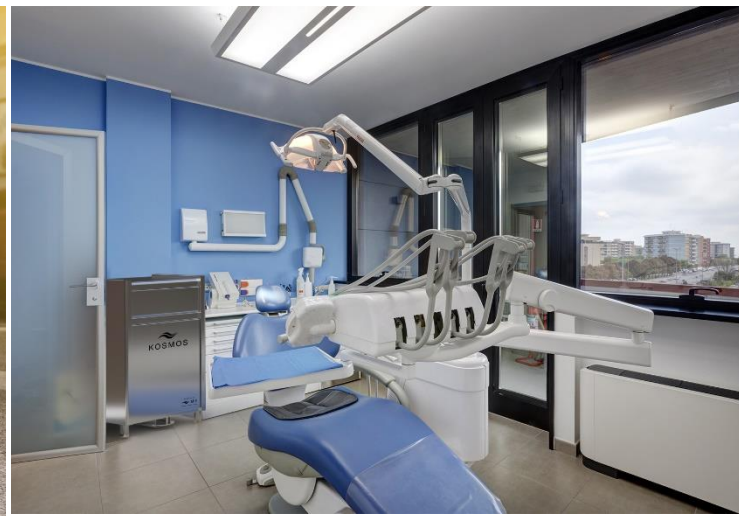
The user can open **KOSMOS** and **CARONTE** with a pedal and **without touching any part of the machine**, he can throw the waste to be disposed of inside.

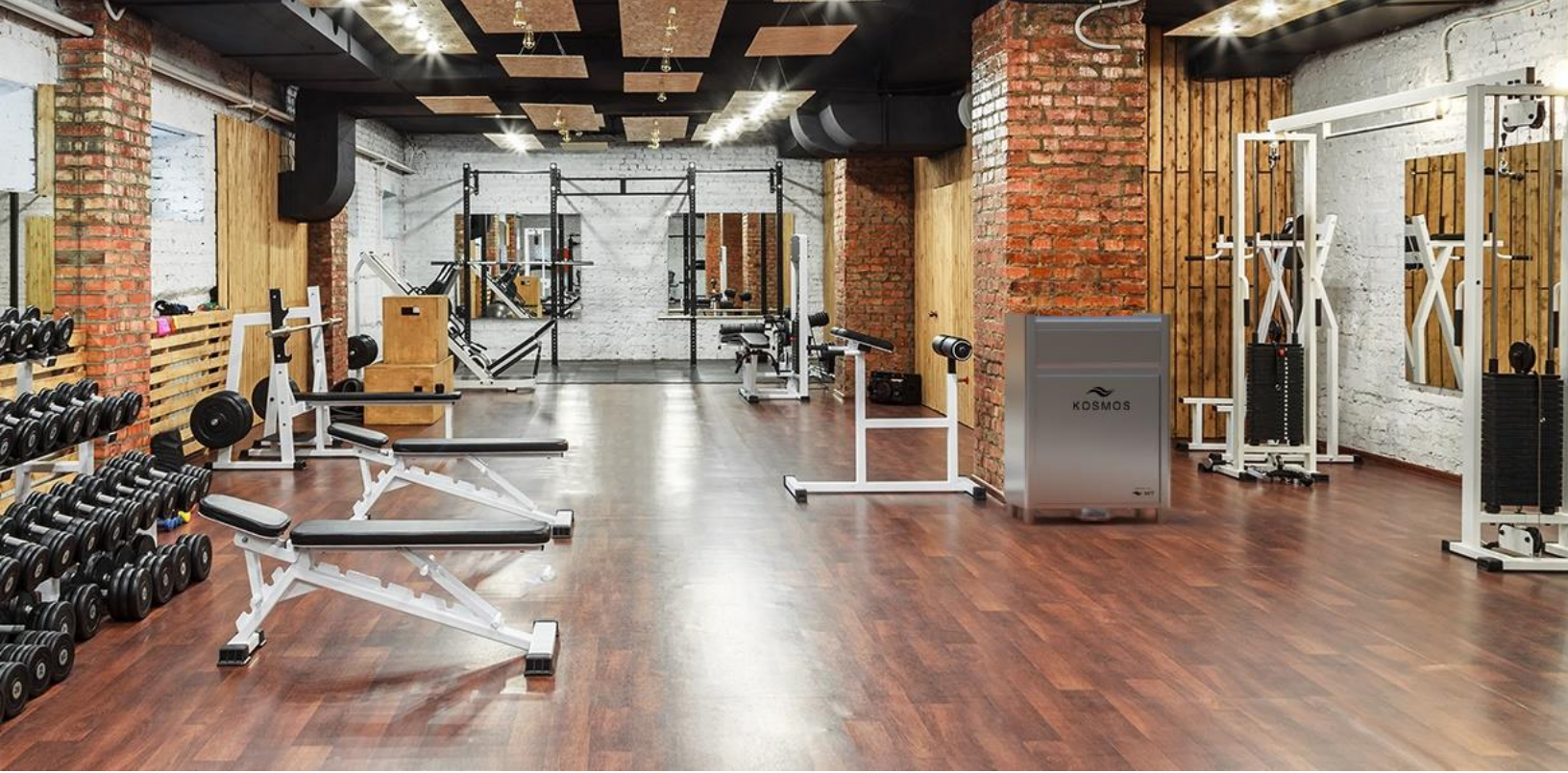
In addition to the management of used personal protective equipment, the **KOSMOS** and **CARONTE** BIO INERTIZER can also be used for the **safe and odorless disposal of all types of waste** (plastic, paper, disposable, wet towels, etc.)

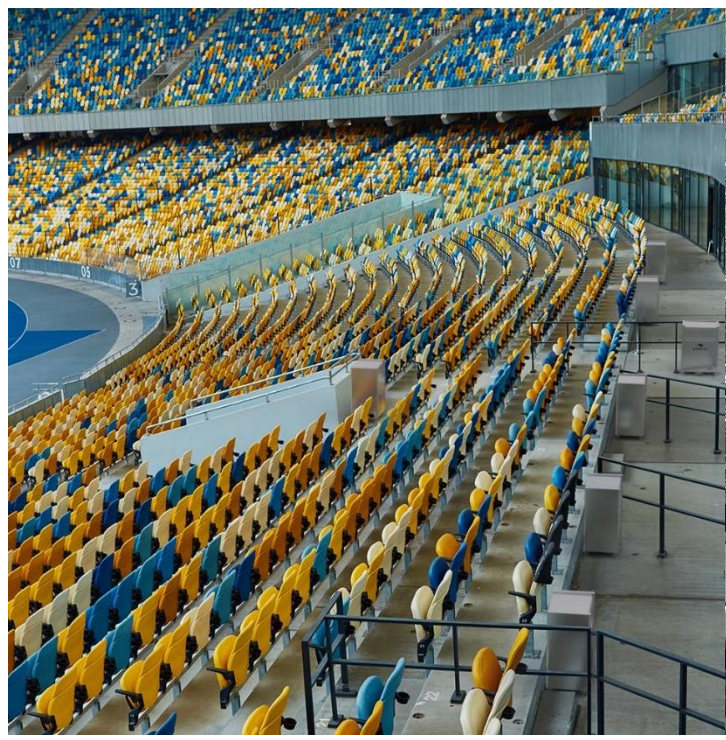
## MAINTENANCE

**KOSMOS** and **CARONTE** are simple and easy to maintain; ordinary cleaning can be performed safely by a single operator. **The waste collection compartments can only be opened with a key and by authorized personnel.**









## MIT: OVEN BUILT WITH HIGH QUALITY MATERIALS AND DESIGNED TO LAST FOR A LONG TIME



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