



Safe line
#Iworksafely

STERIL FAN AIR STERILIZER SYSTEM



Pure and sterile air 24 hour a day

Airborne contaminations have always been a recurring theme, especially in the dental field, where the sprays and ultrasounds used create a greater diffusion of micro particles.

As the National Research Council's Almanac of Science explains, Covid-19 - like the other Coronaviruses - "in particular conditions of temperature and humidity, can survive up to nine days in contact with inanimate surfaces such as metal, glass or plastic".

For this reason it is essential to pay particular attention to the cleansing of all surfaces up to 80 cm from the patient's mouth and at the end of the dental therapy to ventilate the rooms for at least 15 minutes (aerosol residence time).

It should be noted, that waiting rooms, operating rooms and other areas, even if cleaned and disinfected every day, can be an important vehicle for bacterial infections.

There is, however, an equally effective and less invasive method to guarantee safety especially in the operating areas: remediation by recirculating air sterilized with UVC light irradiation.

This system is called UVGI technology and is also suitable for people, unlike ozone technology, which is just as effective, but harmful if used in high concentrations. The effectiveness of ultraviolet rays use is known and they are already in use to disinfect hospitals and similar environments. UVC disinfection technology (UVGI) has been shown to effectively reduce Coronavirus contamination in these environments.

In a study published in 2016 in the Southern African Journal of Infectious Diseases, was demonstrated a reduction in Coronavirus MERS after a 5-minute UVC disinfection cycle.

It is clear that adopting an air disinfection system, to treat environments in the presence of staff, is ideal for keeping microbial load levels low and reducing the risk of contamination of operators and patients, also in compliance with of Legislative Decree 81/2008.

The Steril Fan line includes biological air treatment equipment, ensuring the elimination of all pathogens such as bacteria, viruses, fungi and molds present in the air.

Thanks to the internal UVC lamps, each equipment is able to guarantee constant treatment of the rooms. The air is conveyed into a special chamber inside the device which, by irradiation, drastically reduces the microbial load present in the air. Being able to operate continuously 24 hours a day, even in the presence of people, it allows you to keep the microbial load of the air always at controlled and safe levels.

In addition, it should be noted that, with each passage of air inside the germicidal chamber, decontamination from bacteria takes on values greater than 99.99%. The Steril Fan range offers 4 models, suitable for spaces from 30 to 60 m² and with different types of installation. The portable model, equipped with swivel wheels, therefore easy to position and connect (PLUG & PLAY), has proven to be highly versatile and effective in rooms up to 60 m².

Advantages

STERIL FAN line has many advantages:

- OZONE FREE: Ozone is a gas that can be dangerous in unmanaged concentrations.
- Continuous operability
- Thanks to the shielding of UVC rays, all models can be used in the presence of people
- The filter system is composed of several stages, including the photocatalytic filter which amplifies the effectiveness of the UV lamp in removing viruses bacteria and protozoa. The low wattage of UVC lamps reduces consumption and eliminates the external emission of UVC rays, harmful to health.
- Wide choice in relation to the size of the room to be treated
- Manual on or off or programmable via remote control.
- Minimum maintenance every year



Multiple filter system



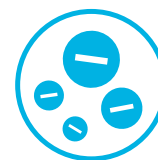
OZONE FREE



Photocatalytic filter
TiO₂



Germicidal light
UVC



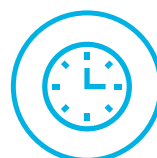
Negative ions



Hepa Filter



Remote control

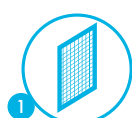
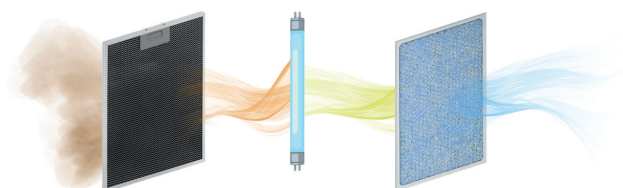


Timed disinfection



Continuous
operability in
presence of people

Steril Fan F30 / F45 WALL



1 Main filter
Retains dust and
Impurities



2 UVC
Sterilizes the air

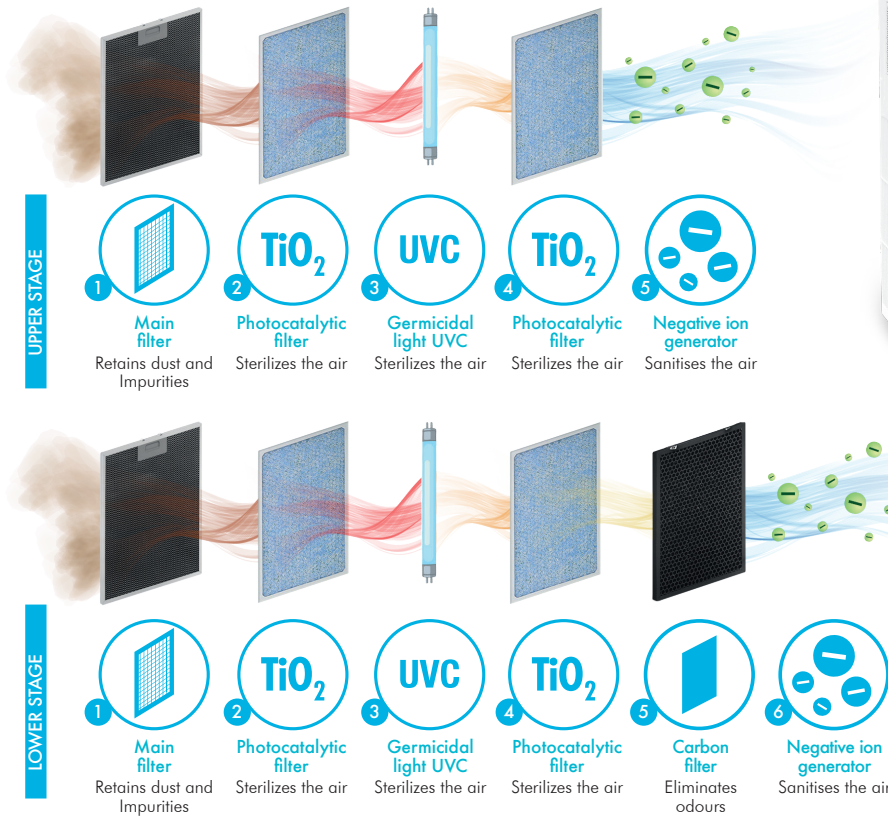


3 TiO₂
Sterilizes the air

Code	Product
SFA2030F	Air sterilizer with technology UVGI 30mq
SFA2045F	Air sterilizer with technology UVGI 45mq

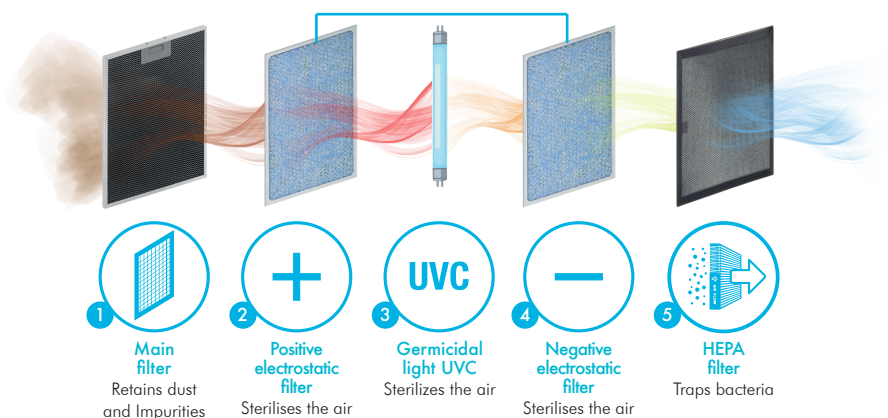
Steril Fan P60 PORTABLE ON WHEELS

Code	Product
SFA2060P	2-Stage air sterilizer with technology UVGI 60mq



Steril Fan T60 PORTABLE ON FLOOR

Code	Product
SFA2060T	Air sterilizer with technology UVGI 60mq, sheet metal structure





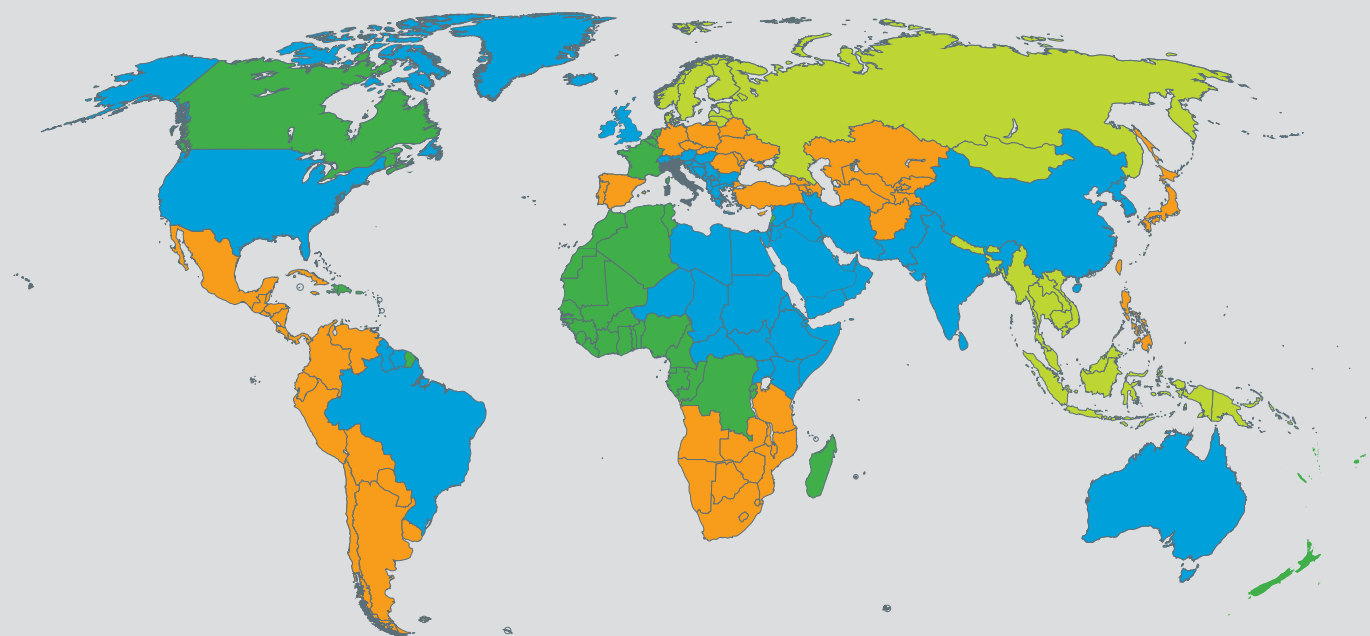
Code	SFA2060P	SFA2030F	SFA2045F	SFA2060T
Capacity	1500 m ³ /h	800 m ³ /h	1200 m ³ /h	1500 m ³ /h
Room Coverage m ²	60 m ²	30 m ²	45 m ²	60 m ²
Room Coverage m ³	180 m ³	90 m ³	135 m ³	180 m ³
Maximum Power	170 Watt	95 Watt	120 Watt	270 Watt
Main dust filter	Yes	Yes	Yes	Yes
ESP electrostatic filter	No	No	No	Yes
Air quality sensor	No	No	No	Yes
Coals filter	Yes	No	No	No
Photocatalytic Filter TiO ₂	Quadruple	Single	Single	No
UVC lamp	2 x 13 Watt + 2 x 10 Watt	1 x 20 Watt	1 x 20 Watt	2 x 15 Watt
Ultraviolet intensity	20102 um/cm ²	20102 um/cm ²	20102 um/cm ²	24000 um/cm ²
UVC wavelength nm	253.7	253.7	253.7	253.7
Hepa filter	No	No	No	Yes – E11
Recirculation speed	3 speeds	3 speeds	3 speeds	3 speeds
Noise db max	≤ 55 db	≤ 55 db	≤ 55 db	≤ 65 db
Operation	Manual – Programmable	Manual – Programmable	Manual – Programmable	Manual – Programmable
Remote control	Yes	Yes	Yes	Yes
Critical operation alarm	Yes – 2 alarms	Yes – 3 alarms	Yes – 3 alarms	Yes – 3 alarms
Lamp life	12000 hours (about 4 years)	12000 hours (about 4 years)	12000 hours (about 4 years)	12000 hours (about 4 years)
External emission μvc to 1 cm	≤ 5 μw/cm ²	≤ 5 μw/cm ²	≤ 5 μw/cm ²	≤ 5 μw/cm ²
Microbiological killing	99.90%	99.90%	99.90%	99.90%
Ozone emission	≤ 0.1 mg/m ³	0.003 mg/m ³	0.003 mg/m ³	0.009 mg/m ³
Weight	23 kg	11 kg	11 kg	75 kg
Dimensions (lxpxh)	550 x 420 x 850 mm	1000 x 330 x 200 mm	1000 x 330 x 200 mm	460 x 350 x 1100 mm

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in the world

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ENVIRONMENTAL DECONTAMINATION

SPACES DISINFECTION AGAINST COVID-19

As everyone knows, it is advisable to maintain the bacterial load of spaces always at minimum values both in the air and on the surfaces. Considering ongoing studies, it appears that Covid -19 can hold up on surfaces from 2 to 9 days.

As we have already seen, while the air sterilization can be carried out with the UVGI system, for pathogens deposited on the surfaces we must act differently. Some dental clinics have commissioned the disinfection of their clinics to specialized companies and even if at the moment there is no specific and precise directive, we cannot say that this is not necessary. Tecnomed Italia has concentrated its efforts on the solution of "always keeping the pathogen values low" after such disinfection.

In collaboration with the METASYS chemical laboratory, we tested the method described below as an effective maintenance procedure. To nebulize GREEN & CLEAN SK disinfectant on all surfaces every working weekend has demonstrated the elimination of spore and bacteria deposited on the surfaces.

This procedure must be carried out as follows:

- Wear an FFP2 mask, cap, goggles, shoe covers and PPE clothing.
- Introduce the GREEN & CLEAN SK liquid inside the nebulizer.
- Spray the product at a distance of 2 meters on all surfaces moistening them but without forming droplets.
- Close the door and open windows to evaporate naturally for at least 5 minutes.
- It is recommended to carry out the same procedure during a technical assistance intervention, too. In these cases we suggest that the technician secures his working area before proceeding with any intervention and, at the end, also disinfects his equipment.



Nebulizer

Sanitise environments and reduce disinfection costs with Tecnomed Italia's Flower Clean electric nebulisers. Simple, cheap and guaranteed, they are available in various models.

To nebulize GREEN & CLEAN SK disinfectant on all surfaces and spaces has demonstrated the elimination of spore and bacteria deposited on the surfaces.



Code	Product
PC5007-1	Nebulizzatore elettrico Flower Clean 4 litri



Code	Product
PC5007-2	Electric nebulizer Flower Clean, 800 ml



Code	Product
PC5007-3	Electric nebulizer Flower Clean, wireless, 800 ml

Code	PC5007-1	PC5007-2	PC5007-3
Supply	220/240 Vac	220/240 Vac	Batteria 18 Volt 4 Ah
Ampere	6 A	2,5 A	2,5 A
Power	1400W	550W	550W
Storage tank capacity	4 liters	800 ml	800 ml
Drop size	0-30 microns adjustable up to 160 microns	50-120 micron, adjustable	50-120 micron, adjustable
Spray distance	Up to 8 meters	Up to 1.5 meters	Up to 1.5 meters
Adjustable flow	150/260 ml/min	Up to 350 ml/min	Up to 350 ml/min
Dimensions with tank	430x430x280	290x235x115	290x275x115
Weight with full tank approx	5 kg	2 kg	2,5 kg
Electric cable length	5 meters	1.8 meters	/
Operating mode	Discontinuous, 20 minutes on, 20 minutes off	Discontinuous, 10 minutes on, 10 minutes off	Discontinuous, 10 minutes on, 10 minutes off
Certification	CE	CE	CE
Guarantee	24 months	24 months	24 months

SPACES DISINFECTION AGAINST COVID-19

With the Flower Clean system, GREEN & CLEAN SK disinfectants have proven to be very effective against Covid-19

GREEN&CLEAN SK Disinfectant solution

5 liters bottle of GREEN & CLEAN SK alcohol free disinfectant for the disinfection of large areas (e.g. alcohol sensitive surfaces).

The product is not dangerous according to the directive (EC) 1272/2008 [GHS].

Composition: <1% quaternary ammonium compounds.

Spectrum of action: HBV / HIV / HCV

Action time: 1 minute; bactericidal, fungicidal (C. albicans)



Features

- Alcohol free
- Short action time
- Ready to use solution
- Lasting effect against the restoration of bacteria and other viruses present in the air
- Particularly suitable for use on alcohol-sensitive washable surfaces
- Free of aldehydes, phenols and phosphates
- Disinfectant solution listed VAH/DGHM.
- CE 0044

Code	Product
60030112	5 liters disinfectant GREEN & CLEAN SK bottle



SAFETY
SHEET



TECHNICAL
DATA
SHEET

SURFACES DISINFECTION AGAINST COVID-19

METASYS SK and SD disinfectants have proved effective against the Covid-19 virus for the classic surface disinfection after each patient.

si dimostrano efficaci contro il virus Covid-19 i disinfettanti METASYS SK e SD.

GREEN & CLEAN SK Disinfectant solution

Alcohol-free disinfectant foam for the disinfection of alcohol-sensitive surfaces of medical products (alcohol-sensitive surfaces of dental unit, handles and leather / imitation-leather coverings). The prolonged effect prevents the establishment of new germs present in the air. Without aldehydes, phenols and phosphates.

Product Tested according to VAH / DGHM criteria. CE0408. New advanced combination of active ingredients: quaternary ammonium compounds.

Spectrum of action:

HBV / HIV / HCV: 1 minute

Bactericide – fungicide: 1 minute



Code	Product
60030111	GREEN & CLEAN SK 6 bottle of 750 ml + 2 spray

GREEN & CLEAN SK is suitable for:



Clean the sky parts of dental unit



Clean the plastic carter of dental unit



Clean arms, poles and handles

GREEN & CLEAN SD Disinfectant solution

Alcoholic disinfectant spray for the disinfection of the surfaces of medical products (surfaces not sensitive to alcohol, of the dental unit, tables, wall units or receptacles).

The prolonged effect prevents the establishment of new germs present in the air. Included in the VAH / DGHM and ÖGHMP list. CE 0408.

New advanced combination of active ingredients: alcohols, quaternary ammonium compounds and glyoxal. Formaldehyde -free.

Spectrum of action:

HBV / HIV / HCV: 30 seconds.

Bactericide – fungicide: 1 minute.

Tuberculocidal: 5 minutes

Code	Product
60030001	GREEN & CLEAN SD 5 bags of 750 ml + 1 bottle 750 ml



GREEN & CLEAN SD is suitable for:



Clean the suction
cannulas in plastic



Clean the suction pipes
and the instrument cords



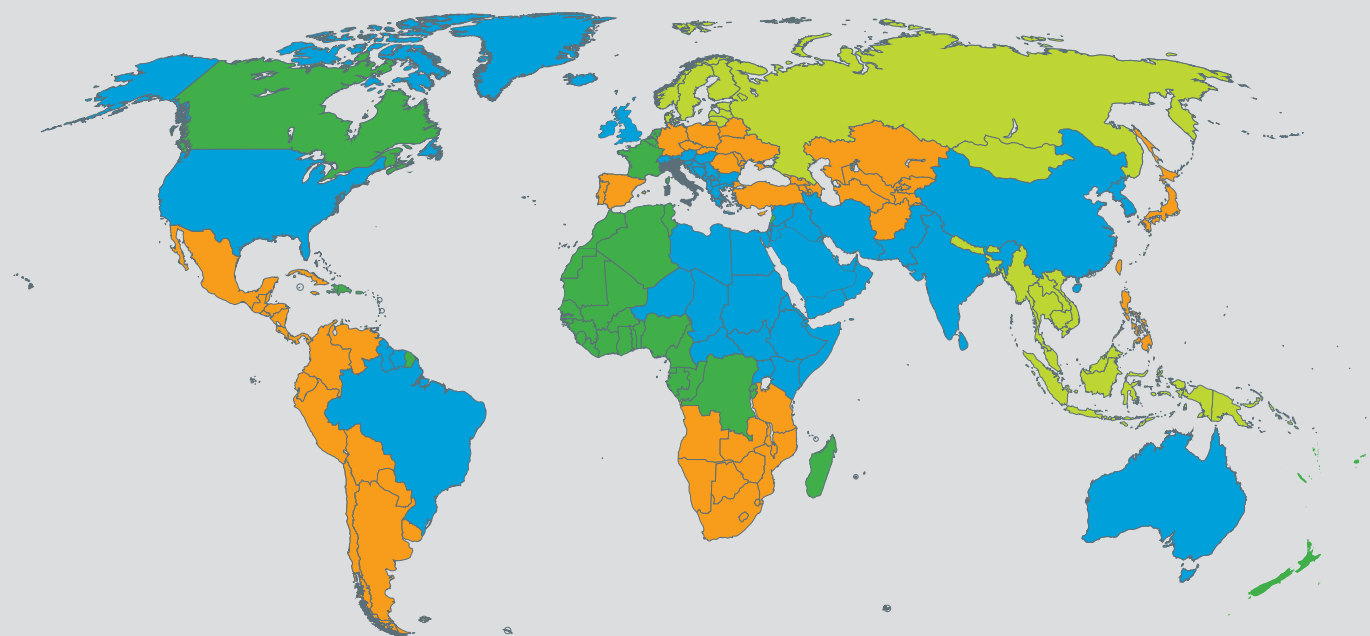
Clean all surfaces

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