



Safe line
#Iworksafely

STERIL FAN AIR STERILIZER SYSTEM



Steril Fan

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.

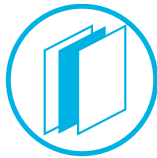
Thanks to the internal UVC lamps, each equipment is able to guarantee constant treatment of the rooms. The air is conveyed into a special chamber inside the device which, by irradiation, drastically reduces the microbial load present in the air. Being able to operate continuously 24 hours a day, even 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



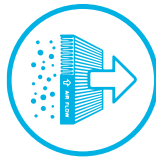
Photocatalytic filter
TiO₂



Germicidal light
UVC



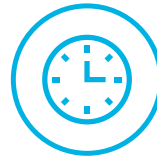
Negative ions



Hepa Filter



Remote control

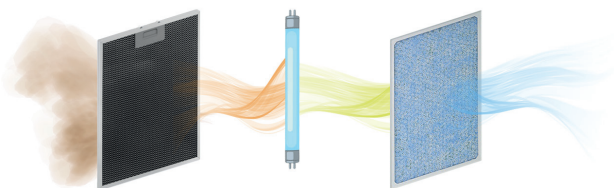


Timed disinfection



Continuous operability in presence of people

Steril Fan F30 / F45 WALL



1 Main filter
Retains dust and Impurities



2 UVC
Sterilizes the air

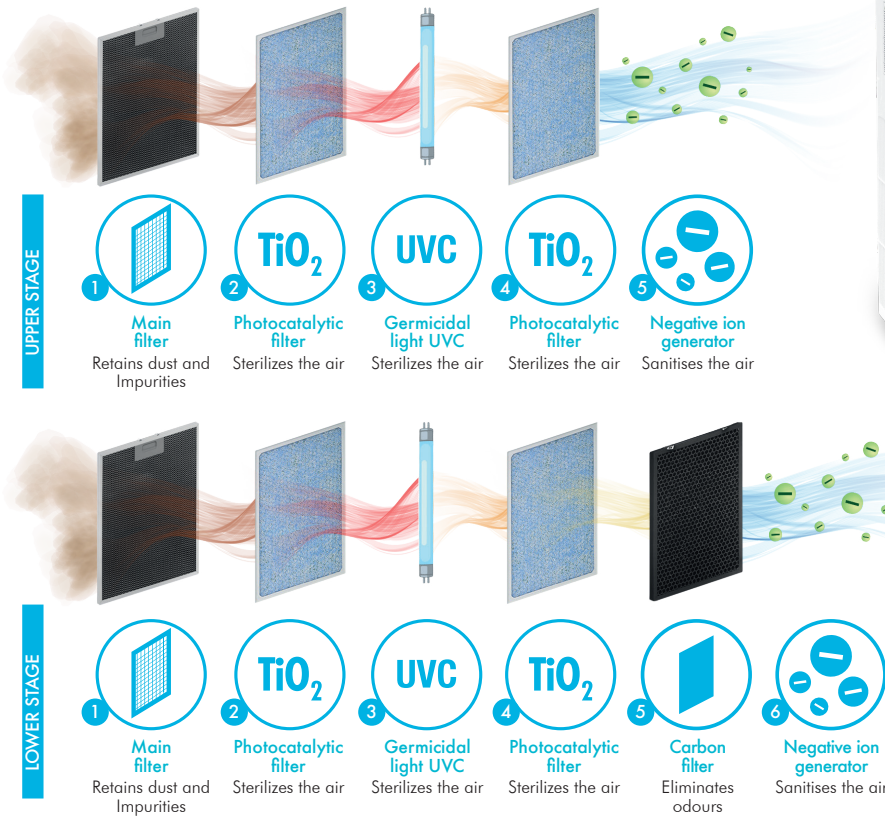


3 Photocatalytic filter
Sterilizes the air

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

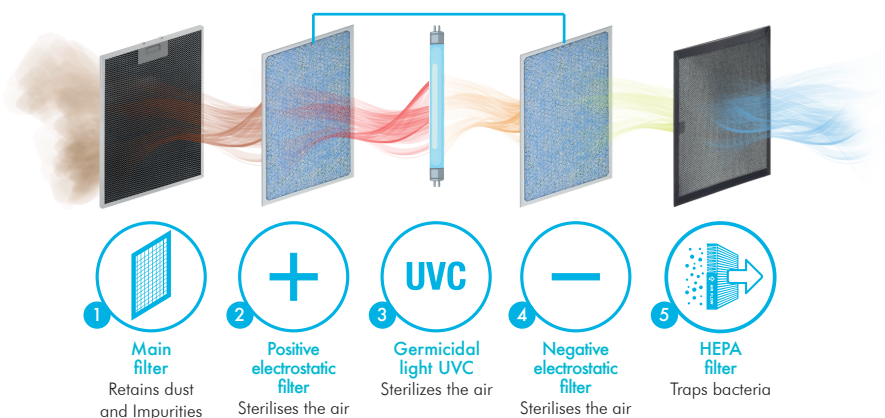
Steril Fan P60 PORTABLE ON WHEELS

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





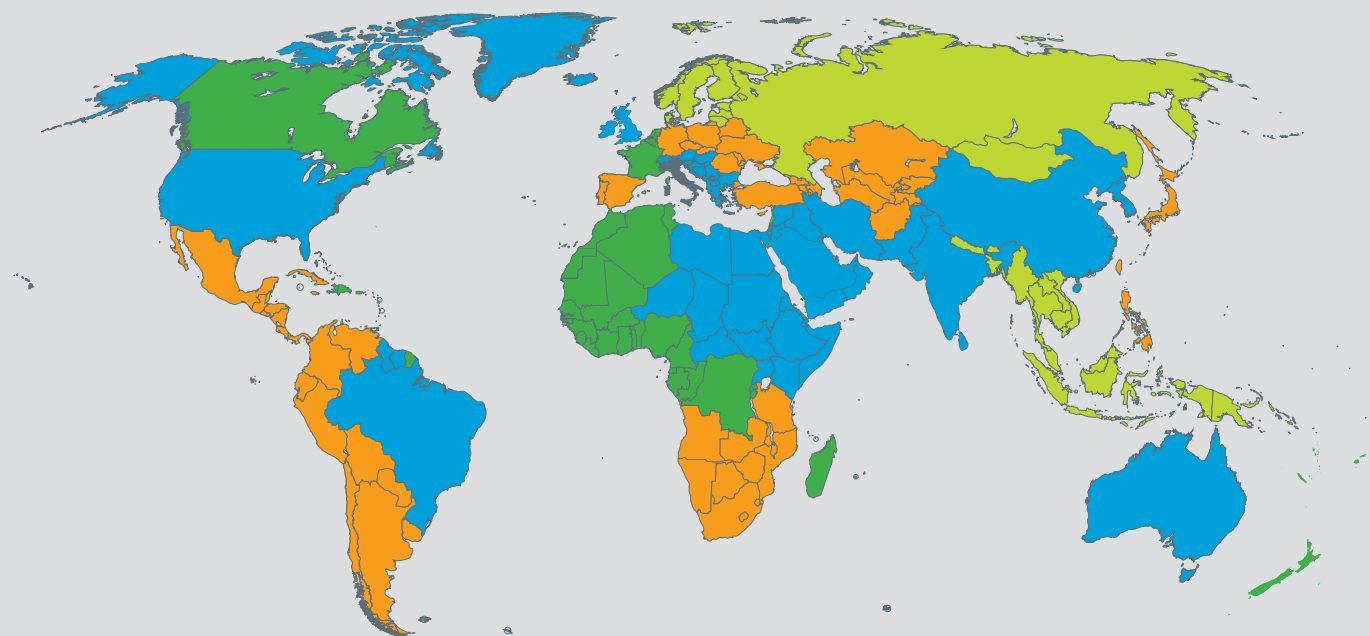
Code	SFA2060P	SFA2030F	SFA2045F	SFA2060T
Capacity	1500 m ³ /h	800 m ³ /h	1200 m ³ /h	1500 m ³ /h
Room Coverage m ²	60 m ²	30 m ²	45 m ²	60 m ²
Room Coverage m ³	180 m ³	90 m ³	135 m ³	180 m ³
Maximum Power	170 Watt	95 Watt	120 Watt	270 Watt
Main dust filter	Yes	Yes	Yes	Yes
ESP electrostatic filter	No	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 $\mu\text{m}/\text{cm}^2$	20102 $\mu\text{m}/\text{cm}^2$	20102 $\mu\text{m}/\text{cm}^2$	24000 $\mu\text{m}/\text{cm}^2$
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 $\mu\text{w}/\text{cm}^2$	≤ 5 $\mu\text{w}/\text{cm}^2$	≤ 5 $\mu\text{w}/\text{cm}^2$	≤ 5 $\mu\text{w}/\text{cm}^2$
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 (lpxh)	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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