



# **SterilAir PRO**

## BIOLOGICAL AIR TREATMENT

How to prevent airborne infections  
effectively and safely  
for patients and personnel

# Safe air in waiting rooms and clinical areas



Reduction or elimination of biological pathogens present in the air

For constant use in the presence of personnel and patients

Easy to use and low maintenance

# Airborne infections. The problem.

Airborne contamination has always been a serious problem in our society; in fact, there are many airborne diseases.

Meningitis, diphtheria, tuberculosis, measles, rubella, mumps, and even simple flu, colds and the new forms of flu that have appeared in recent years. In some environments the problem of airborne transmission is particularly critical, especially those places where there is a high density or turnover of people (public places, meeting places, schools, kindergartens etc.), or healthcare or surgical environments. Some healthcare environments are even more critical, for example dental environments, where the sprays and ultrasounds used spread microparticles which are then transported into the environment.

All these infections are increasingly frequent, so much so that in some cases they are even defined as pandemics, generating high costs and major social problems. Based on the recommendations of the CDC (*Centers of Disease Control and Prevention*), environmental biological treatment systems can immediately be applied to reduce the risk of airborne viruses spreading, which is why such devices can be used in any environment.



## The air in waiting rooms

- Due to their very nature, waiting rooms are places where the prolonged presence of patients and those accompanying them can lead to cross infection.
- Infection can occur either between the patients who are waiting, between the patients and personnel in the practice or by the transmission of pathogens into the air of the premises.



## The aerosol problem

- It has been clinically proven that atomisation produces 400,000 particles per minute which are dispersed in a hypothetical 3-metre sphere around the source.
- This sphere strikes operators in an area of about 70% between the torso and the head.
- 60% of the particles are infected.
- 70% of the microparticles are less than 0.3 microns in size and are therefore assimilated by the body.
- Each individual, during an eight-hour shift, breathes in about 10,000 litres of air.



## The search for a solution

- Environmental biological treatments often require the use of substances or methods which are incompatible with the presence of personnel.
- Many types of equipment have expensive filters which need to be replaced periodically and which themselves represent a risk when handled.
- Many types of equipment are sold as being suitable for use in medical environments but are actually unfit for purpose, either because they are too small or simply because they derive from devices designed for domestic use.
- So what is the solution?

# SterilAir PRO. The solution.

## Combating airborne infections for 20 years.

Tecno-Gaz is the manufacturer of SterilAir PRO, a device that we first studied, designed and produced for dental use 20 years ago with the aim of creating an extremely high-performance device using mercury vapour discharge lamps which guarantee optimal abatement for 9000 hours. As well as being simple and intuitive to use, it is also easy to programme and requires practically zero maintenance. SterilAir PRO has 4 lamps enclosed in a special chamber and this ensures maximum biological results. We also used a self-cleaning filter to block dust and microparticles, avoiding the use of other filters that reduce the air flow rate and require periodic maintenance. Thanks to the technologies adopted, we can guarantee optimum results, eliminating periodic costs and ensuring the highest possible safety levels. Thousands of dental practices and doctors in Italy and around the world use this extraordinary system .

## Using SterilAir PRO means:



### Reducing the risk of contaminating operators,

as also required by the Consolidated Safety Act and recently also recommended by the WHO (World Health Organization)



Considerably reducing the potential contamination of operators and patients



Having a bacteriologically safe environment



On the wall



On the floor with optional stand

### Maximum flexibility in all environments

SterilAir PRO can be wall-mounted or, using the optional stand, placed in any environment, with the maximum freedom to move it when needed.





**No ozone dispersion**

**Output grille**

The treated air is expelled from the outlet nozzle thus reducing the microbial load in the environment.

**Irradiation with UV-C rays**

The mercury vapour tubes produce irradiation for maximum germicidal action.

**Dust filter**

for primary purification from coarse pollutants.

# Biological air treatment

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

## Safe for people.

No dispersion of radiation and ozone in the environment.

Absolutely risk-free for humans since there is no leakage of UV-C radiation from the device.

## Continuous disinfection.

For constant protection.

The air in any environment is treated and purified continuously, during all work phases and in the presence of operators.

## Programmable.

Maximum protection according to your needs.

Programme SterilAir Pro to switch on a couple of hours before your arrival until the end of the day.



## Closed-loop forced ventilation

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

# The advantages



**Solid aluminium construction**

**Tecno-Gaz Quality**

**No risk to people**

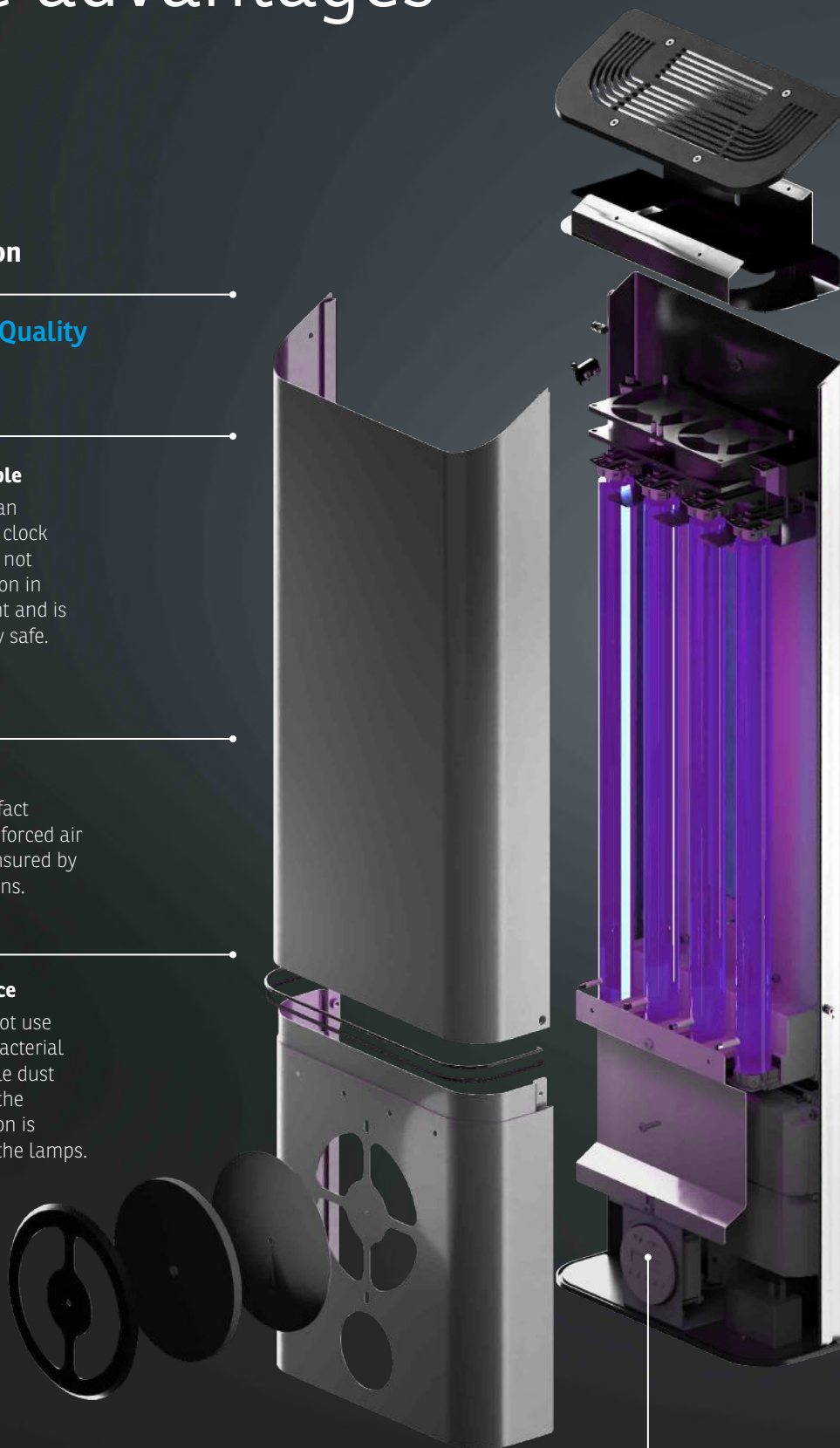
SterilAir PRO can work round the clock because it does not disperse radiation in the environment and is therefore totally safe.

**No noise**

Operation is in fact noise-free. The forced air circulation is ensured by special silent fans.

**No maintenance**

SterilAir does not use expensive antibacterial filters but simple dust filters because the germicidal action is guaranteed by the lamps.



**Programmable**

Thanks to a simple display.

**Maximum effectiveness**

Thanks to UV-C rays.



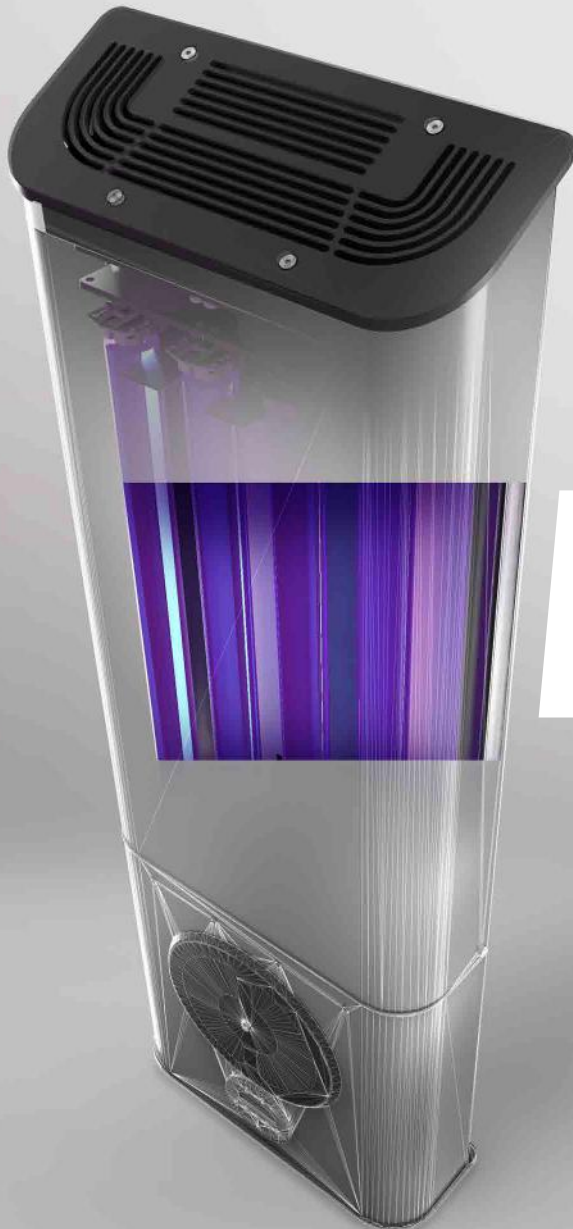
# Controlled ultraviolet radiation

## No risk to people. Maximum safety.

The great advantage of our system is the absolute lack of risk to humans as there is no leakage of UV-C radiation from the device and the air path is controlled and forced.

### 9.000 hours

Lamp life

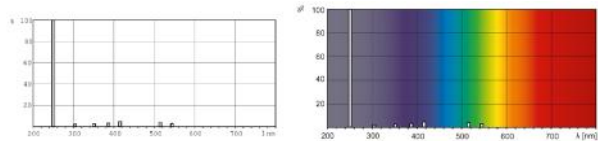


#### **SterilAir PRO. The system for environmental decontamination in the presence of operators**

There are various methods for decontaminating air, such as free ultraviolet radiation, chemical methods using iodoform, chlorhexidine, or quaternary ammonium derivatives, nebulised using special equipment. These methods, although considered effective, have a temporary effect and can only be used when there are no operators present and in situations of absolute inactivity.

**The most suitable and absolutely most effective method is definitely the use of ultraviolet radiation at controlled wavelength. This performs an intense microbicidal and virucidal activity on numerous microorganisms.**

Photometric Data



It acts by blocking the reproductive capacity of microorganisms by altering their chromosomes. No microorganisms are immune to germicidal radiation: spores, bacteria, moulds, yeasts are eradicated by this radiation and the DNA of viruses is also destroyed.

### 120 m<sup>3</sup>/h

High treatment capacity



# High efficiency lamps

## SterilAir PRO is equipped with 4 UV-C lamps

Unlike other solutions, SterilAir PRO uses four low-pressure mercury vapour discharge lamps; this allows germicidal action in larger environments, reaching maximum efficacy in a shorter time.



### Germicidal action

These emit short-wave UV radiation with a peak of 253.7 nm (UV-C) for an effective germicidal action



### Proven effectiveness

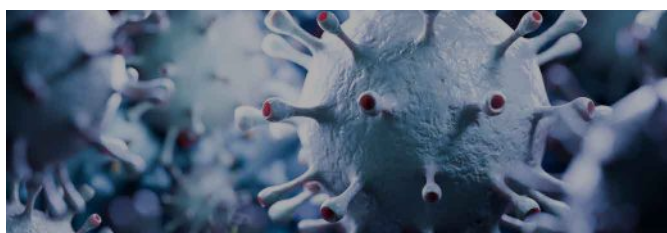
The glass of the lamp acts as a filter to the ozone line (185 nm)



### Maximum construction quality

The protective inner coating guarantees the efficacy of the UV-C rays over time

The fields of application of mercury vapour lamps are numerous, testifying to their reliability in combating a large number of pathogens.



### Extensive microbiological effectiveness

Neutralization of bacteria, viruses and other primitive organisms.



### Industries with a high risk of contamination

Disinfection of water, air and surfaces in hospitals, pharmaceutical and bacteriological research laboratories and in food processing industry companies such as dairies, breweries and bread factories.



### Proven efficacy also for the treatment of liquids

Disinfection of drinking water, wastewater, swimming pools, air-conditioning systems, cold rooms, packaging materials, etc..



### Versatile application

Use in a multitude of photochemical processes.

# Proven safety

## Average UV rate constants for animal viruses and phages

| Virus                       | Type  | Water                               |                             | Surfaces                            |                             | Air Lo RH                           |                             | Air Hi RH                           |                             |
|-----------------------------|-------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
|                             |       | D <sub>90</sub><br>J/m <sup>2</sup> | UVGI k<br>m <sup>2</sup> /J | D <sub>90</sub><br>J/m <sup>2</sup> | UVGI k<br>m <sup>2</sup> /J | D <sub>90</sub><br>J/m <sup>2</sup> | UVGI k<br>m <sup>2</sup> /J | D <sub>90</sub><br>J/m <sup>2</sup> | UVGI k<br>m <sup>2</sup> /J |
| Adenovirus                  | dsDNA | 903                                 | 0.00255                     |                                     |                             | 49                                  | 0.04700                     | 34                                  | 0.0680                      |
| Adenovirus type 1           | dsDNA | 322                                 | 0.00714                     |                                     |                             |                                     |                             |                                     |                             |
| Adenovirus type 15          | dsDNA | 396                                 | 0.00581                     |                                     |                             |                                     |                             |                                     |                             |
| Adenovirus type 2           | dsDNA | 324                                 | 0.00711                     | 400                                 | 0.00576                     |                                     |                             |                                     |                             |
| Adenovirus type 4           | dsDNA | 921                                 | 0.00250                     |                                     |                             |                                     |                             |                                     |                             |
| Adenovirus type 40          | dsDNA | 546                                 | 0.00422                     | 300                                 | 0.00768                     |                                     |                             |                                     |                             |
| Adenovirus type 41          | dsDNA | 515                                 | 0.00447                     | 236                                 | 0.00976                     |                                     |                             |                                     |                             |
| Adenovirus type 5           | dsDNA | 522                                 | 0.00441                     |                                     |                             |                                     |                             |                                     |                             |
| Adenovirus type 6           | dsDNA | 395                                 | 0.00583                     |                                     |                             |                                     |                             |                                     |                             |
| Avian Influenza virus       | ssRNA | 25                                  | 0.09140                     |                                     |                             |                                     |                             |                                     |                             |
| Avian Leukosis virus (RSA)  | ssRNA | 631                                 | 0.00365                     |                                     |                             |                                     |                             |                                     |                             |
| Avian Sarcoma virus         | ssDNA | 220                                 | 0.01047                     |                                     |                             |                                     |                             |                                     |                             |
| B. subtilis phage 029       | dsDNA | 70                                  | 0.03289                     |                                     |                             |                                     |                             |                                     |                             |
| B. subtilis phage SP02c12   | dsDNA | 100                                 | 0.02303                     |                                     |                             |                                     |                             |                                     |                             |
| B. subtilis phage SPP1      | dsDNA | 195                                 | 0.01181                     |                                     |                             |                                     |                             |                                     |                             |
| Bacteriophage B40-8         | dsDNA | 137                                 | 0.01679                     |                                     |                             |                                     |                             |                                     |                             |
| Bacteriophage F-specific    | dsRNA | 292                                 | 0.00789                     |                                     |                             |                                     |                             |                                     |                             |
| Bacteriophage MS2           | ssRNA | 182                                 | 0.01268                     |                                     |                             | 5                                   | 0.42400                     | 7                                   | 0.3440                      |
| Bacteriophage Qβ            | ssRNA | 235                                 | 0.00980                     |                                     |                             |                                     |                             |                                     |                             |
| Berne virus                 | ssRNA | 13                                  | 0.18420                     |                                     |                             |                                     |                             |                                     |                             |
| BLV                         | ssRNA | 394                                 | 0.00584                     |                                     |                             |                                     |                             |                                     |                             |
| Borna virus                 | ssRNA | 79                                  | 0.02920                     |                                     |                             |                                     |                             |                                     |                             |
| Bovine Calicivirus          | ssDNA | 95                                  | 0.02420                     |                                     |                             |                                     |                             |                                     |                             |
| Bovine Parvovirus           | ssDNA | 35                                  | 0.06580                     |                                     |                             |                                     |                             |                                     |                             |
| Canine Calicivirus          | ssRNA | 67                                  | 0.03450                     |                                     |                             |                                     |                             |                                     |                             |
| Canine hepatic Adenovirus   | dsDNA | 265                                 | 0.00869                     |                                     |                             |                                     |                             |                                     |                             |
| Cholera phage Kappa         | dsDNA | 634                                 | 0.00363                     |                                     |                             |                                     |                             |                                     |                             |
| Coliphage f2                | ssRNA | 310                                 | 0.00743                     |                                     |                             |                                     |                             |                                     |                             |
| Coliphage fd                | ssDNA | 23                                  | 0.0940                      |                                     |                             |                                     |                             |                                     |                             |
| Coliphage øX-174            | ssDNA | 25                                  | 0.09292                     |                                     |                             | 3                                   | 0.71000                     | 4                                   | 0.53000                     |
| Coliphage Lambda            | dsDNA | 78                                  | 0.02953                     | 87                                  | 0.02650                     |                                     |                             |                                     |                             |
| Coliphage PRD1              | dsDNA | 20                                  | 0.11500                     |                                     |                             |                                     |                             |                                     |                             |
| Coliphage T1                | dsDNA | 14                                  | 0.16257                     |                                     |                             |                                     |                             |                                     |                             |
| Coliphage T2                | dsDNA | 9                                   | 0.25243                     |                                     |                             |                                     |                             |                                     |                             |
| Coliphage T3                | dsDNA | 10                                  | 0.23100                     |                                     |                             |                                     |                             |                                     |                             |
| Coliphage T4                | dsDNA | 13                                  | 0.17575                     |                                     |                             |                                     |                             |                                     |                             |
| Coliphage T7                | dsDNA | 28                                  | 0.08152                     |                                     |                             | 7                                   | 0.33000                     | 10                                  | 0.22000                     |
| Coronavirus                 | ssRNA | 21                                  | 0.11059                     |                                     |                             | 6                                   | 0.3700                      |                                     |                             |
| Coxsackievirus              | ssRNA | 81                                  | 0.02834                     |                                     |                             | 21                                  | 0.1100                      |                                     |                             |
| Echovirus                   | ssRNA | 83                                  | 0.02786                     |                                     |                             |                                     |                             |                                     |                             |
| Encephalomyocarditis virus  | ssRNA | 55                                  | 0.04220                     |                                     |                             |                                     |                             |                                     |                             |
| Epstein-Barr virus (EBV)    | ssDNA | 162                                 | 0.01420                     |                                     |                             |                                     |                             |                                     |                             |
| Equine Herpes virus         | dsDNA | 25                                  | 0.09210                     |                                     |                             |                                     |                             |                                     |                             |
| Feline Calicivirus (FeCV)   | ssRNA | 64                                  | 0.03610                     |                                     |                             |                                     |                             |                                     |                             |
| Friend Murine Leukemia v.   | ssRNA | 320                                 | 0.00720                     |                                     |                             |                                     |                             |                                     |                             |
| Frog virus 3                | dsDNA | 25                                  | 0.09210                     |                                     |                             |                                     |                             |                                     |                             |
| Hepatitis A virus           | dsDNA | 66                                  | 0.03513                     |                                     |                             |                                     |                             |                                     |                             |
| Herpes simplex virus type 1 | dsDNA | 36                                  | 0.06325                     |                                     |                             |                                     |                             |                                     |                             |

| Virus                       | Type  | Water                               |                             | Surfaces                            |                             | Air Lo RH                           |                             | Air Hi RH                           |                             |
|-----------------------------|-------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
|                             |       | D <sub>90</sub><br>J/m <sup>2</sup> | UVGI k<br>m <sup>2</sup> /J | D <sub>90</sub><br>J/m <sup>2</sup> | UVGI k<br>m <sup>2</sup> /J | D <sub>90</sub><br>J/m <sup>2</sup> | UVGI k<br>m <sup>2</sup> /J | D <sub>90</sub><br>J/m <sup>2</sup> | UVGI k<br>m <sup>2</sup> /J |
| Herpes simplex virus type 2 | dsDNA | 35                                  | 0.06569                     |                                     |                             |                                     |                             |                                     |                             |
| HIV-1 ssRN                  | ssRN  | 280                                 | 0.00822                     |                                     |                             |                                     |                             |                                     |                             |
| HP1c1 phage                 | dsDNA | 40                                  | 0.05760                     |                                     |                             |                                     |                             |                                     |                             |
| HTLV-1                      | ssRNA | 20                                  | 0.11510                     |                                     |                             |                                     |                             |                                     |                             |
| Human Cytomegalovirus       | dsDNA |                                     |                             | 93                                  | 0.02478                     |                                     |                             |                                     |                             |
| Influenza A Virus           | ssRNA | 23                                  | 0.10103                     |                                     |                             | 19                                  | 0.11900                     |                                     |                             |
| Kemerovo (R-10 strain)      | dsRNA | 230                                 | 0.01000                     |                                     |                             |                                     |                             |                                     |                             |
| Kilham Rat Virus (parvov.)  | ssDNA | 30                                  | 0.07650                     |                                     |                             |                                     |                             |                                     |                             |
| Lipovnik (Lip-91 strain)    | dsRNA | 299                                 | 0.00770                     |                                     |                             |                                     |                             |                                     |                             |
| Measles virus               | ssRNA | 22                                  | 0.10510                     |                                     |                             |                                     |                             |                                     |                             |
| Mengovirus                  | dsRNA | 162                                 | 0.01420                     |                                     |                             |                                     |                             |                                     |                             |
| Minute Virus of Mice (mvm)  | ssDNA | 21                                  | 0.10850                     |                                     |                             |                                     |                             |                                     |                             |
| Moloney Murine Leukemia     | ssRNA | 201                                 | 0.01148                     |                                     |                             |                                     |                             |                                     |                             |
| Murine Cytomegalovirus      | ssDNA | 46                                  | 0.05000                     |                                     |                             |                                     |                             |                                     |                             |
| Murine Norovirus (MNV)      | ssRNA | 76                                  | 0.03040                     |                                     |                             |                                     |                             |                                     |                             |
| Murine sarcoma vIirus       | ssRNA | 207                                 | 0.01113                     |                                     |                             |                                     |                             |                                     |                             |
| Mycobacteriophage D29       | dsDNA | 44                                  | 0.05290                     |                                     |                             |                                     |                             |                                     |                             |
| Mycobacteriophage D32       | dsDNA | 354                                 | 0.00650                     |                                     |                             |                                     |                             |                                     |                             |
| Mycobacteriophage D4        | dsDNA | 245                                 | 0.00940                     |                                     |                             |                                     |                             |                                     |                             |
| Mycoplasma virus MVL        | dsDNA | 105                                 | 0.02200                     |                                     |                             |                                     |                             |                                     |                             |
| Newcastle Disease Virus     | ssRNA | 14                                  | 0.16355                     | 16                                  | 0.14400                     |                                     |                             |                                     |                             |
| Parvovirus H-1              | ssDNA | 25                                  | 0.09200                     |                                     |                             |                                     |                             |                                     |                             |
| phage B40-8 (B. fragilis)   | dsDNA | 75                                  | 0.03070                     |                                     |                             |                                     |                             |                                     |                             |
| phage GA                    | ssRNA | 200                                 | 0.01150                     |                                     |                             |                                     |                             |                                     |                             |
| phage phi 6                 | dsRNA | 5                                   | 0.43000                     |                                     |                             |                                     |                             |                                     |                             |
| phage phi 6                 | dsRNA | 7                                   | 0.31000                     |                                     |                             |                                     |                             |                                     |                             |
| Poliovirus                  | dsRNA | 85                                  | 0.02694                     | 42                                  | 0.05425                     |                                     |                             |                                     |                             |
| Poliovirus type 2           | dsRNA | 121                                 | 0.01910                     |                                     |                             |                                     |                             |                                     |                             |
| Poliovirus type 3           | dsRNA | 103                                 | 0.02240                     |                                     |                             |                                     |                             |                                     |                             |
| Polyomavirus                | dsDNA | 564                                 | 0.0408                      |                                     |                             |                                     |                             |                                     |                             |
| Porcine Parvovirus (PPV)    | ssDNA | 23                                  | 0.10230                     |                                     |                             |                                     |                             |                                     |                             |
| Pseudorabies (PRV)          | dsDNA | 34                                  | 0.06760                     |                                     |                             |                                     |                             |                                     |                             |
| Rabies virus (env)          | ssRNA | 10                                  | 0.21930                     |                                     |                             |                                     |                             |                                     |                             |
| Rauscher Murine Leuk. v.    | ssRNA | 236                                 | 0.00975                     | 959                                 | 0.00240                     |                                     |                             |                                     |                             |
| Reovirus                    | dsRNA | 148                                 | 0.01556                     |                                     |                             |                                     |                             |                                     |                             |
| Reovirus 3                  | dsRNA | 334                                 | 0.00690                     |                                     |                             |                                     |                             |                                     |                             |
| Rotavirus                   | dsRNA | 200                                 | 0.01150                     |                                     |                             |                                     |                             |                                     |                             |
| Rotavirus SA 11             | dsRNA | 89                                  | 0.02580                     |                                     |                             |                                     |                             |                                     |                             |
| Rous Sarcoma virus (RSV)    | ssRNA | 360                                 | 0.00640                     | 200                                 | 0.01150                     |                                     |                             |                                     |                             |
| S. aureus phage             | dsRNA | 65                                  | 0.03542                     | 79                                  | 0.02900                     |                                     |                             |                                     |                             |
| Semliki forest virus        | ssRNA | 25                                  | 0.09210                     |                                     |                             |                                     |                             |                                     |                             |
| Simian virus 40             | dsDNA | 83                                  | 0.02768                     |                                     |                             |                                     |                             |                                     |                             |
| Sindbis virus               | ssRNA | 66                                  | 0.03501                     |                                     |                             | 22                                  | 0.10400                     |                                     |                             |
| Vaccinia virus              | dsDNA | 18                                  | 0.12454                     |                                     |                             | 2                                   | 1.34650                     |                                     |                             |
| VEE                         | ssRNA | 55                                  | 0.04190                     |                                     |                             |                                     |                             |                                     |                             |
| Vesicular Stomatitis v.     | ssRNA | 12                                  | 0.19440                     |                                     |                             |                                     |                             |                                     |                             |
| WEE                         | ssRNA | 54                                  | 0.04300                     |                                     |                             |                                     |                             |                                     |                             |

Ref. Wladyslaw Kowalski 2009. **Ultraviolet Germicidal Irradiation Handbook**. UVGI for Air and Surface Disinfection. 4.3 UV Rate Constant Database. pp 80, 81

### Numerous studies confirm the effectiveness of 235 nm UV-C radiation in combating infections

This is an excerpt from one of many studies that have verified the antimicrobial efficacy of UV-C lamps. Pathogens of various types are mentioned, not only airborne. The data show that relatively low exposure is sufficient to obtain good results. The advantage of SteriAir PRO lies not only in the efficacy of its lamps, but above all in its ability to treat large volumes of air, up to 120 m<sup>3</sup> per hour.

# Integrated safety in the practice

## 360° safety with Tecno-Gaz technology

Tecno-Gaz is the only company that has always been able to offer a complete and integrated infection prevention program. From the individual safety of operators and patients, to the sterilization line for instruments, to environmental and dental unit prevention, Tecno-Gaz offers products, services and training for dental and medical operators.



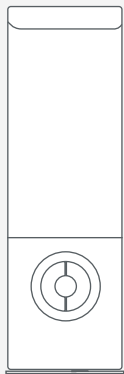


# SterilAir PRO

## BIOLOGICAL AIR TREATMENT

EN   
1<sup>st</sup> Edition

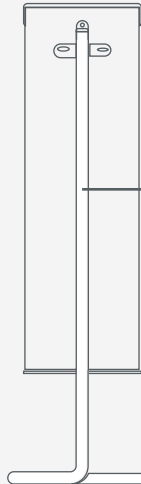
How to prevent airborne infections effectively  
and safely for patients and personnel



Art. **SA210ZSA**

### STERILAIR PRO DEVICE

wall mounted



Art. **SA002ZSA**

### STAND FOR STERILAIR PRO

Optional



#### Dimensions

**wall mounted** 82 x 27 x 11 cm

**with pedestal** 107 x 33 x 28 cm (H,W,D)

#### Weight

**wall mounted** 12,5 Kg **with pedestal** 15 kg

#### Type of operation:

continuous

#### Flow rate

120 m<sup>3</sup>/h

#### Lamps

no. 4 25W UV-C tubes G13T8  
(7 W UVGI)

#### Wavelength

253,7 nm

#### Ultraviolet Energy

69 μW/cm<sup>2</sup> at 1 m (per lamp)

#### External UV-C emission

none

#### Equipped with

- Dust filter
- Electronic programmer

#### Reflective material

Aluminium

#### Lamp life

**9000 hours** (1 year: 24 hours)

#### Noise level

32 dB



#### Tecno-Gaz S.p.A.

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Cap. Soc. € 280.000 i.v. C.F. e P.IVA/VAT IT00570950345 - R.E.A. PR 138927 Iscr. Reg. Impr. PR 10061

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