

STERIL AIR PRO air sterilizer

Airborne contamination has always been a serious problem in our society, in fact there are many diseases transmitted by air .

Meningitis, diphtheria, tuberculosis, measles, rubella, mumps, to get to the simple flu, colds and the new forms of flu that have arisen in recent years. In some environments the problem of airborne diffusion is particularly critical, normally we can consider all those environments where there is a **strong concentration or turnover of people** (public places, meeting places, schools, kindergartens, etc.), **or healthcare or surgical environments** . Some healthcare environments then take on greater criticalities, for example dental ones, where **the sprays and ultrasounds used create a greater diffusion** of micro particles which are then transported into the environment. All these infections are increasingly widespread, so much so that in some cases they are even defined as a pandemic and this generates high costs and great social problems.

The use of devices to treat the environmental bioburden find immediate application to reduce the risk of transmission of diseases transmitted by air , based on the recommendations outlined by the CDC (Centers of Disease Control and Prevention), and **such systems can be used in all enclosed spaces** .



STERILAIR Pro is a device studied, designed and produced for dental use 20 years ago, with the logic of creating an extremely performing device thanks to UV-C mercury vapor discharge lamps tested for the abatement of volatile biological particles for a **lifetime 9000 hours** , with a simple and intuitive use, completely programmable, and with no maintenance.



STERILAIR Pro is equipped with **4 lamps** (which are the agent for the active treatment), enclosed in a special reflecting chamber

and this ensures the maximum biological result. We have also adopted a self-cleaning filter (up to 2000 hours) to block dust and microparticles avoiding the use of other filters that slow down the air flow and require periodic maintenance.

It guarantees maximum results by eliminating periodic costs and ensuring the highest degree of safety.

Thousands of dental and medical practices in Italy and around the world use this extraordinary system.

Adopting **STERILAIR Pro** means:

- **Reduce the risk of contamination of operators** , as also required by the consolidated text on safety and recently also recommended by the WHO (world health organization)
- **Reduce or eliminate the possibility of contamination** of operators and patients
- Have a **bacteriologically safe environment**

Safeguard your professional image and your prestige by protecting your health and that of your collaborators and patients.

STERILAIR PRO is the first biological air treatment system. **Studied and built with an innovative design, STERILAIR PRO** allows to overcome the problems of direct and indirect exposure to short wavelength ultraviolet rays (UVC 254 nm) **offering the possibility of continuous use even in the presence of people** without any risk for the latter.

The most effective means for the destruction of microorganisms present in the air.

The great advantage of this system consists in the **absolute lack of danger for humans** as there is not the slightest leakage of UV-C radiation from the equipment and no ozone is produced.

Operation is based on a closed cycle forced ventilation system. The air sucked in by **STERILAIR Pro** first passes through a dust filter positioned in the inlet, which has the purpose of blocking the coarsest pollutants, giving a first purification to the air.

Subsequently, the air enters the irradiation chamber in direct contact with mercury vapor tubes which, thanks to the emission of UV-C radiation, perform the maximum germicidal action. The air is expelled from the outlet, thus determining the microbiological abatement.

THE MAXIMUM ADVANTAGE OF STERILAIR PRO is that it can carry out continuous and constant disinfection of the air in any environment, during every working phase and in the presence of operators. You can thus **schedule the switching on of STERILAIR Pro** a couple of hours before your arrival in the studio and then keep the equipment on throughout your working day.

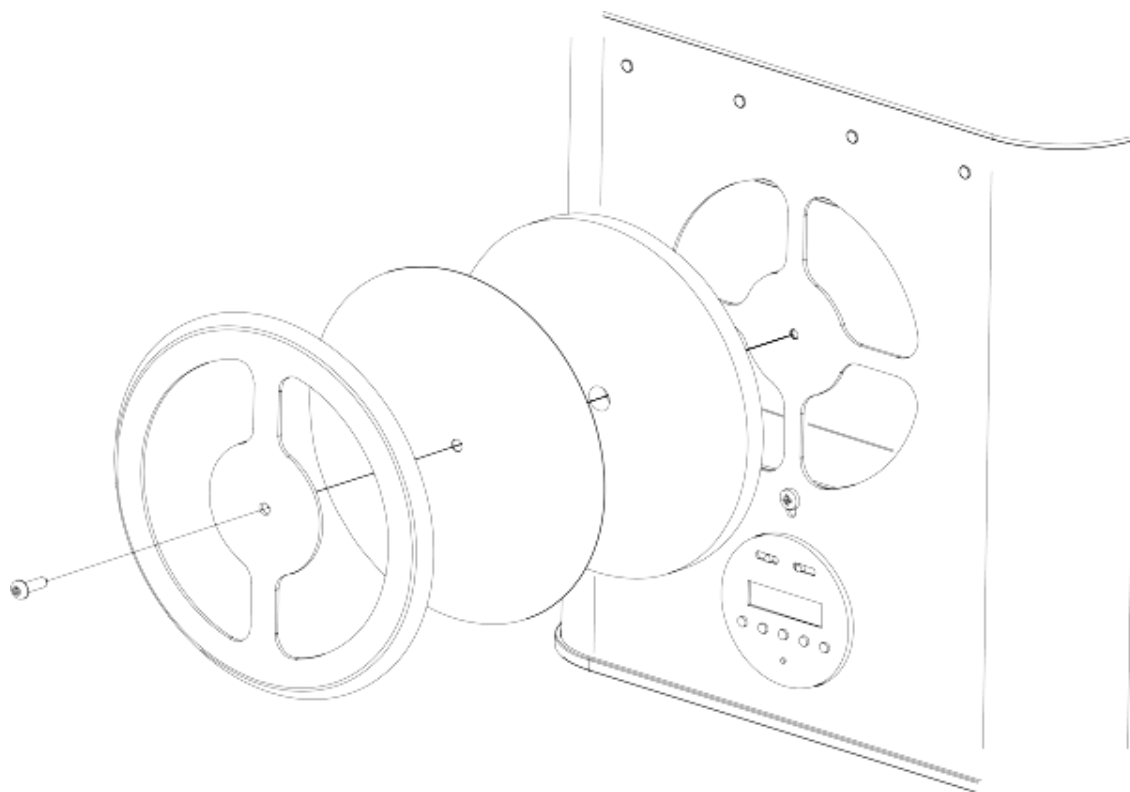
Appliance measurements:

width 27 cm

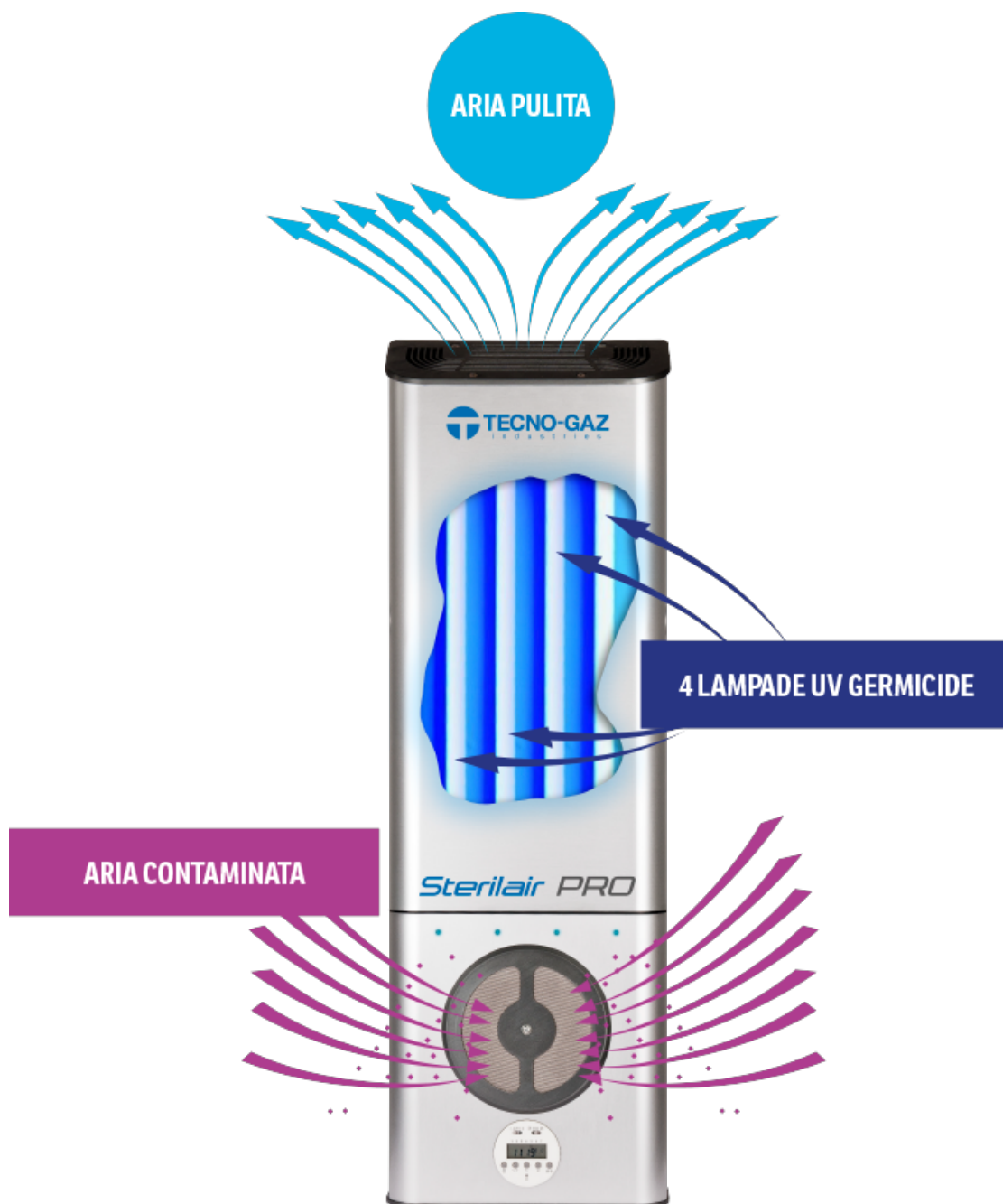
depth 11 cm

height 82 cm

Primary filter diagram



Sterilair PRO operation



Sterilair PRO sucks air from the surrounding environment up to **120 m³ in 1 hour**, conveys it to the **4 Philips UVC lamps** which, thanks to their germicidal power, treat the air before being reintroduced into circulation. We use mercury vapor lamps for their **very high performance** and because the radiations emitted are absolutely **safe for humans**.

On / off timer



The device is equipped with a programmable weekly timer that allows to treat the air of the office even before the arrival of operators and patients. This makes the work area perfectly safe right from the start. In addition, the shutdown can also be set to avoid unnecessary energy waste (such as at night or on weekends) and to increase the duration of the benefits of **Sterilair PRO**. With the integrated and programmable timer you can forget you have it, but he will never forget about you!

Controlled ultraviolet radiation

There are various methods to decontaminate the air, for example free ultraviolet radiation, chemical methods that use iodoforms, chlorhexidine, or quaternary ammonium derivatives or nebulized with special equipment. Although these techniques are considered effective, they have a temporary effect, in fact their use is relegated to moments in which there is an absence of operators and an absolute state of inactivity.

The most suitable and absolutely most effective method is certainly the use of ultraviolet radiation at a controlled wavelength. This has an intense microbicidal and virulicidal activity against numerous microorganisms. It works by blocking the reproductive capacity of microorganisms by altering their chromosomes.

The great advantage of our system consists in the **absolute lack of danger for humans** as there is not the slightest leakage of UV-C radiation from the device.

Low pressure mercury vapor discharge lamps

Features

- They emit short wave UV radiation with a peak of 253.7 nm (UV-C) for effective germicidal action
- The glass of the lamp acts as a filter for the ozone line (185 nm)
- The internal protective coating maintains the effectiveness of the useful flow of UV-C rays over time
- A warning on the lamp indicates the emission of UV-C radiation
- Neutralization of bacteria, viruses and other primitive organisms
- They allow the disinfection of water, air and surfaces in hospitals, pharmaceutical and bacteriological research laboratories and in companies in the food processing sector such as dairy companies, breweries and bakeries
- Disinfection of drinking water, waste water, swimming pools, air conditioning systems, cold rooms, packaging materials,

etc.

- Use in an infinite number of photochemical processes

Accessories on request:

T9121020 - floor support for STERIL AIR PRO

Code	Description
T9121001	STERIL AIR PRO air sterilizer