



## UV - FAN

### UV-C air Purifier



UV-FAN allows deep air disinfection in any type of food environment. Traditional cleaning methods are, often, not sufficient to ensure high levels of hygiene, which can be achieved only by the use of UV-C technology.

The big advantage of this machine is the ability to deal with the air of a room, 24 hours a day, without any contraindication for the staff present. Only a continuous disinfectant action can ensure the security to maintain the microbial load always under control; on the contrary, an intense, but uneven, disinfection results in a fluctuating level of germs present in the environment.

As a matter of fact, environments where food is processed need to be disinfected to keep high hygiene and quality standards, typical of this sector. With UV-FAN, it is possible to achieve disinfection of production, packaging, storage areas, etc. in a simple, immediate and safe way, without developing heat, without the use of liquids and chemicals and without any contraindications.

Conveyed by a silent built-in fan, the air in the room passes through the germicidal chamber of the purifier to be decontaminated from microbes, but also from chemical contaminants; in addition to the UV-C lamps, UV-FAN also contains an innovative Titan dioxide nano-particle filter TIOX<sup>®</sup> with silver salts, which enhances the germicidal action of ultraviolet effect.

UV-FAN achieves the elimination (99%) of bacteria such as *Bacillus*, *Coli*, *Clostridium*, *Legionella*, *Vibrio*, *Salmonella*, *Pseudomonas*, *Staphylococcus*, etc. in just a few minutes of operation.

Germicidal efficiency is certified by accredited laboratories (SINAL) by the Ministry of Health and the Institute of Hygiene at the University of Siena (the abatement of 3 logs of the T.M.C. has been certified).

#### WHAT ARE UV-C RAYS?

Light in a broad sense can be divided in visible, infra-red and ultraviolet rays.

Ultra-violet rays (invisible) can be classified in:

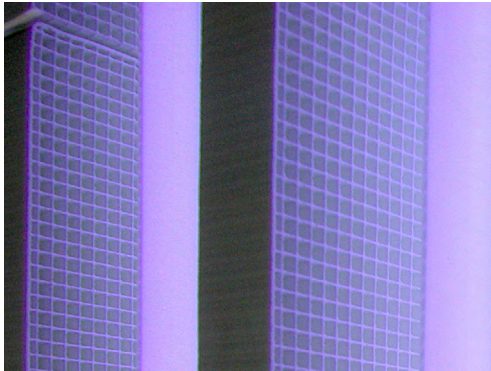
- UV - A (with tanning properties)
- UV - B (with therapeutic properties)
- UV - C (with germicidal properties)

The germicidal effects of the UV-C radiation destroy DNA of Bacteria, Viruses, Spores, Fungi, Moulds and Mites avoiding their growth and proliferation.

UVGI technology is a physic disinfection method with a great cost/benefits ratio, it's ecological, and, unlike chemicals, it works against every microorganisms without creating any resistance.



Application example



Detail of the TIOX® filter

#### TECHNICAL FEATURES

- UV-C Light Progress selective lamp (emission peak 253.7 nm.) with high output, ozone free, very pure quartz.
- Inner germicide mirrored chamber in mirror bright aluminium.
- Extruded aluminium body coated with epoxy powders.
- Use in presence of people.
- Continuity of treatment 24/24h - High power UVC
- Special TiOx Filter for removing pollutants and inorganic substances (standard)
- Peephole for checking lamps
- All materials are tested to resist to intense UV-C rays.
- Power supply with electronic ballast specific for Light Progress UV-C lamps
- CE marking (LVD - EMC - MD - RoHS).

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### Universal purifier



Wheeled model (-ST)

UV-FAN series includes a wide range of wall or wheeled (model -ST) purifiers, different according to the UV-C lamps power and size.

UV-FAN has a epoxy powder-coated bearing structure in extruded aluminium sheet and a front cover with micro-holes, allowing air to enter and exit at both ends, making it pass through the TIOX® filter.

The germicidal chamber houses the UV-C lamps and is built with a special very pure mirrored aluminium, which amplifies the disinfecting power of the lamps.

UV-FAN ... BD model, with integrated external UVC lamp, apart from the function of purifying in presence of people as so far described (operational or daylight phase), provides for the possibility to light the UVC externally integrated lamp to deeply disinfect the surrounding air and surfaces, by radiating them directly (in the non-operational or night phase, immediately before the use of the room).

The two switches can also be managed separately, using a common programming clock.

UV-FAN is ready for use and does not require any special maintenance except for the periodical replacement of the lamps, it is entirely built in Italy, with high quality and extremely resistant materials.