



UV - FLOW - C

unidirectional flow UV-C system

The UV-FLOW series includes UV-C ultraviolet germicidal devices with unidirectional flow. UV-FLOW is used for creating UV germ protection barriers to be placed above the doors of room with contamination control (clean rooms) or even for the treatment of air upper layers in restricted area.

The use of UV-FLOW allows an intensive air disinfection, essential in environments (food production) where it is necessary to operate in optimal microbiological conditions.

In food processing, it is recommended to create a decontamination area between two different areas, especially if one of them is to be kept under strict microbiological control. The mold spores and bacteria, freely circulating among spaces, are destroyed by the UV-C rays; this avoids the possibility that they settle on the surface of the processing products, thus increasing their shelf life.

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.

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-FLOW, it is possible to create a bactericidal barrier between "grey" and "white" areas in a simple, immediate and secure manner, or treat the air in general, without developing heat, without chemicals and without any contraindications.

It is shown how, in the food industry, an increased level of hygiene allows a consequent and general increase of product quality. UV-FLOW achieves the elimination (99%) of bacteria such as *Bacillus*, *Coli*, *Clostridium*, *Legionella*, *Vibrio*, *Salmonella*, *Pseudomonas*, *Staphylococcus*, etc. in just a few minutes of operation.



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:

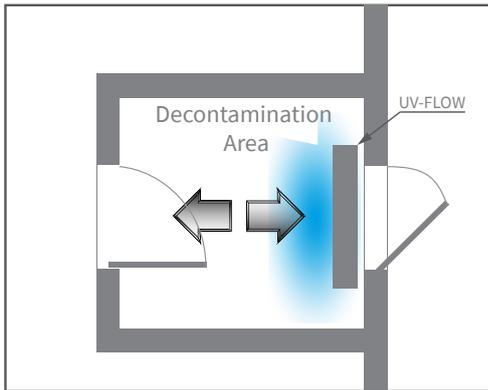
- UV - A (with tanning properties)
- UV - B (with therapeutic properties)
- UV - C (with germicidal properties)

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.



Disinfection of air upper layers

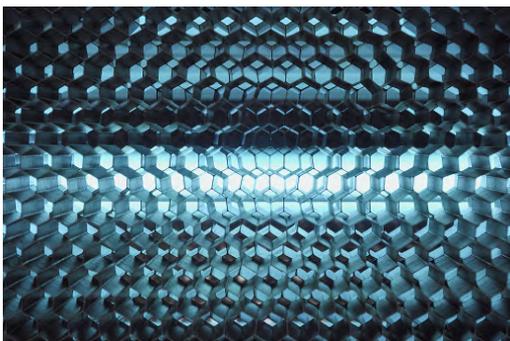


Germicidal Barrier/filter area between two areas

TECHNICAL FEATURES

- UV-C Light Progress selective lamp (emission peak 253.7 nm.) with high output, ozone free, very pure quartz.
- Structure in AISI 304 stainless steel.
- All materials are tested to resist to intense UV-C rays.
- Dust and water resistant (IP 55).
- Power supply with electronic ballast specific for Light Progress UV-C lamps
- Honeycomb one-way black filter.
- CE marking (LVD - EMC - MD - RoHS).

UV - FLOW disinfection barrier



Detail of the honeycomb filter

UV-FLOW series includes the possibility to choose among unidirectional flow devices, different according to the UV-C lamp powers.

UV-FLOW has a stainless steel structure and is equipped with directional black honeycomb filter, which channel the flow of UV rays. The installation, owing to special brackets which direct the flow, can be made so to form a "UV blade", which, starting from the device, radiates towards the floor (UV-C barrier) or towards the ceiling, if the top layers of the room are to be treated.

Pointing it towards the ceiling achieves a permanent disinfection of the environmental air, which circulates naturally inside the spaces, following normal convective motions.

UV-FLOW series is the only one to be specifically designed with this double purpose.

UV-FLOW 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.