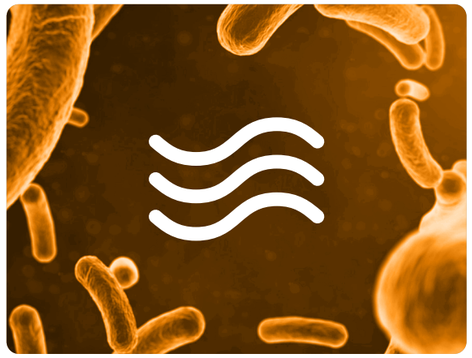

biointel

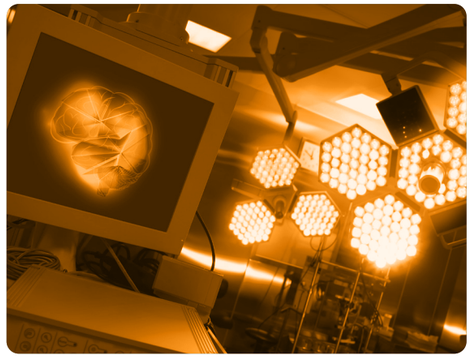
Technology
Photocatalytic Oxidation



BIOKKER is a system for the elimination of environmental pathogens (bacteria, viruses, mould & VOCs) suitable for the treatment of indoor air and used to eliminate all organic compounds and particles, living or inert, dissolved in the air of any area within a building.

The technology used by **BIOKKER** is based on an advanced process of oxidative photocatalysis (PCO) included in the so-called AOTs (Advanced Oxidation Technologies) with the capacity to eliminate contaminants in the gas phase through the use of UV energy. All oxidative activity takes place in the sealed reactor inside the device.

Hospitals, Laboratories & Medical Facilities



Contagious airborne pathogens for humans represent particles smaller than one micron (1µm); they are difficult to remove, penetrate deeply into the airways and make up 99% of the total number of particles in the air.

Most of the microorganisms involved in the transmission of nosocomial diseases by air require certain proximity between source and recipient, but there are many others, such as the pathogens of tuberculosis and diphtheria, flu virus or bacterial and fungal spores, which have a greater resistance or tend to mobilize through dust thus reaching large transmission distances.

In hospitals and medical facilities, it is important to consider that there is a high population of immune compromised patients very susceptible to infection and to cross contamination

Biokker
Advantages

BIOKKER is the most advanced and efficient system in the market for the reduction of airborne pathogens.
Biokker and Biokker*Ind* are the new generation of devices using the renowned photocatalytic oxidation technology.
It is not an air filtration system, it is a unique device designed to destroy pathogenic particles and in the same action eliminate VOCs.

- Indoor air quality
- Air renewals reduction
- Energy efficient
- No Ozone emission
- Photonic activation
- Green technology, no chemicals used
- No harmful by-products or emissions
- Contaminants are removed, not modified
- One single annual maintenance
- Different operating modes
- Operates at room temperature and atmospheric pressure
- Not a filter, it does not collect or keep pathogens or allergens
- Not a filter, it does not discriminate particles by size
- No ducts required
- Combines with other air treatments
- High oxidative power & low selectivity, allowing the degrading of multiple compounds & mixtures

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