

About BioZone & the Technology

History

BioZone Scientific started about 20 years ago with the goal of using science combined with electronics to create the most efficient air purifier. Today, BioZone's products are used worldwide by both individuals and companies.

BioZone air purifiers are located in hospitals, hotels, restaurants, taxis, lorries, boats, car companies, food industry, agriculture, industry, homes, etc.

BioZone was founded in 1996 in the United States. The products have won several awards for their scientific methods to eliminate pollution indoors.

Some customers

- 1) *"Our daughter is hypersensitive to mold and poor indoor environment. When we installed a BioZone in her room it became a success. She became completely symptom free! After that, we have purchased more units of BioZone. "The family Östholm in Falkenberg, Sweden.*
- 2) *"Thanks to my BioZone I have slept several nights in a row without suffering from asthma attacks" Ulrika, Kyrkby, Sweden.*
- 3) *"We have a BioZone continuously in place on a nursery that suffered water damage and was affected by moisture and mold. It works great! Another BioZone air cleaner we have placed in the basement of a 16th century house on Drottninggatan in Stockholm to remove cellar smell. "Bengt Nilsson, Dalkia AB.*

Air Quality

Our indoor air today contains a variety of pollutants that affect our health. Carpets, plastic, insulation, cleaning products, sprays, textiles etc. The gases emitted from all this usually have nowhere to go but to react with each other and create new unhealthy compounds.

According to the WHO, the indoor environment is one of our most serious health problems today. We spend over 90% of our time indoors in an air environment that affects our health very much.

Every year, at least 500 people die due to poor air indoors. The number of children with allergies increases sharply, and it seems that it is just the indoor air that is the main reason for it.

New international research shows that molds in moisturized houses occur considerably more often than previously.

Previously, it has been argued that there is no poison just because there is mold. On the contrary, one can assume that if there is visible mold, there is also poison.

We know that people get sick in moisturized buildings, but if this is caused mainly by molds, bacteria or gases emitted by wet building materials, we do not know. New studies from Germany and Norway indicate that the immune system can be affected by levels of just a few pictograms, that is, millions of millions of grams. Based on the presence of visible mold, there are also moldy poisonous substances.

How does Biozone work?

We are increasingly exposed to pollution that is detrimental to our health. These pollutants can be divided into three groups: biological pollutants, poisonous gases and particles. To counter these risks to our health, BioZone has combined various methods to clean the air we breathe.

BioZone's products use photocatalyst technology to remove bacteria, mold spores and poor odors. Both in air and on surfaces.

BioZone creates a high energy plasma with special UV lamps that break down the molecules in the air. The high-charged atoms in the plasma react with contaminants and bacteria / viruses / molds and removes them. BioZone's products cleanse the entire space, ensuring a continuous fresh space.

Air entering the BioZone unit is channeled into a cleaning chamber. In the chamber, the air is exposed to intense bactericidal UV light that kills organic pollutants. The special wavelengths of the UV light create, from the gases in the oxygen, the humidity in the air and electrons released by reaction with a catalyst, a cleaning plasma that kills bacteria, viruses, mold spores, VOC (volatile organical compounds) and neutralizes bad odours. The ultra clean air is blown back into the space and brings with it the cleansing photoplasma that seeks and purifies harmful pollutants in all areas.

Biozone combines negative ions with UV light (which removes bacteria and viruses) and hydroxyl radicals. An unbeatable combination.

A European work on standardization in photocatalysis is under way! Photocatalysis is a technique for removing contaminants. This occurs through a chemical reaction where electromagnetic radiation in the ultraviolet region activates a catalyst. The most widely used photocatalyst is titanium dioxide.

Photocatalysis has gained an increasing importance, in particular to tackle environmental pollution. Photocatalyst is rated by EU Member States as one of the most advanced growth potentials. Photocatalysis is a sustainable process for air and water purification, surface protection, and self cleaning on surfaces exposed to contamination.