# HyGenikx Technologies

## Make it the center of your hygiene strategy

In today's environment, hygiene has *NEVER* been so important. That is why operators, from a wide variety of industries & institutions, have chosen HyGenikx as a key component of their hygiene strategy.

### PERFECTLY suited for …

- Food service operators of all sizes
- Health care facilities
- Nursing homes
- Schools
- Day-care centers
- Beauty salons / hair stylists
- Locker rooms
- Refuge / garbage rooms
- Restrooms / toilet facilities
- Offices …

In fact, there is no facility that couldn't benefit from the cleansing powers of a HyGenikx unit.

### ELIMINATES …

- **Viruses, bacteria, molds, fungi and volatile organic compounds (VOCs)**, both in the air and on exposed surface
- **Improves infection control for staff and customers**
- **Eradicates unpleasant odors**
- **Depletes harmful Listeria monocytogenes and Listeria innocua – the cause of Listeriosis – an infection caused by contaminated food**
- **Reduce spoilage** by **extending the shelf-life of perishable food** on average by 58%, and up 150% for certain produce*

Scientific evidence shows that this technology kills a wide range of other microbes that are much more difficult to eradicate than SARS-CoV-2. (COVID – 19)

HxT HYGENIKX TECHNOLOGIES

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**HyGenikx** works to clean and sanitize surfaces and the air in its installed environment, protecting you and your facilities …

HyGenikx has no moving parts, works 24/7 and it is absolutely silent!!

## How does the HyGenikx unit work?

- Germicidal Irradiation by dual UV light (Ultraviolet) kills microorganisms (bacteria, viruses and mould) by disrupting their DNA and removing their reproductive capabilities.
- PCO – Photocatalytic Oxidation, UV reacts with our Catalyst (Ti02 Titanium Dioxide)to form highly reactive but short-lived oxidizing Hydroxyl Radicals (OH) which break down Volatile Organic Compounds (VOCs).
- **Interaction of the Dual waveband UV with the TiO2 heterogeneous catalyst both creates and breaks down Oxygen molecules transforming Oxygen into a highly reactive states of Ozone and Superoxide Ions which leave the unit as "Plasma Quatro".**
- Plasma Quatro is the gas energized by the high intensity UV light. It leaves the unit with the airflow and consists of a mixture of activated oxygen, triatomic oxygen and superoxide ions. These interact with each other giving a very efficient purification of the air and all exposed surfaces. Many times more efficient than ozone or UV light working alone.

## UV light + Titanium Dioxide = "Plasma Quatro" + Trace Ozone

Ozone is a form of oxygen (O3) that is highly reactive, giving it the ability to quickly breakdown contaminates. As one of nature's most powerful oxidizers, ozone is widely used for water treatment and has been used for disinfecting and sanitation purposes since the early 1900s. Ozone is recognized as an efficient disinfecting and sanitizing agent by the Center for Disease Control and Prevention as well as by the World Health Organization.

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