Double action!

PureAir 3000

REPECO
REPRESENTING ECOLOGY

Efficient odor neutralization using microorganisms

Water-based "PureAir 3000" with microorganisms for effective odor removal. The product is designed for industrial and commercial use. "PureAir 3000" absorbs odor molecules quickly and efficiently, while the microorganisms in the product break down the odor compounds.

Double action

Instant absorption and long-term effects of microorganisms.

Non-toxic

Free of harmful chemicals.

Biodegradable

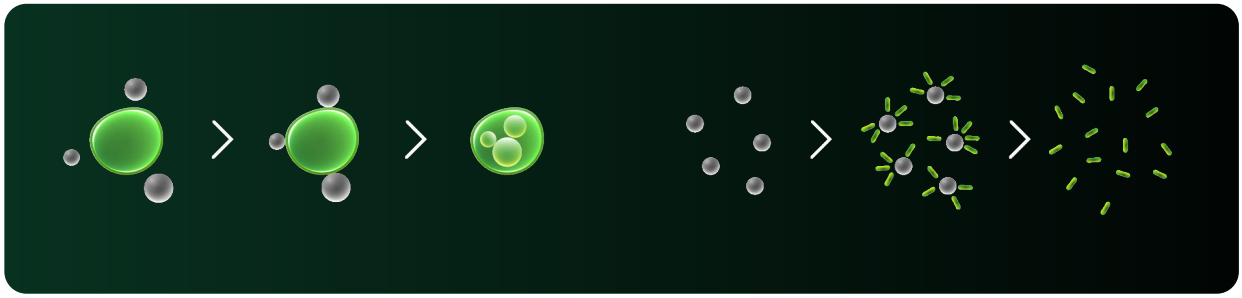
Environmentally friendly and sustainable product.

Concentrated

The product is concentrated and can be diluted with water.

Principle of double action

A quick and long-lasting effect is achieved by the active ingredients of the product acting on a double principle:



Neutralizer molecule

A molecule containing an unpleasant odor

Microorganisms

LEVEL 1

Absorption of unpleasant odors

Sudden effect due to an extremely effective odor absorber, which quickly absorbs and neutralizes unpleasant odor molecules.

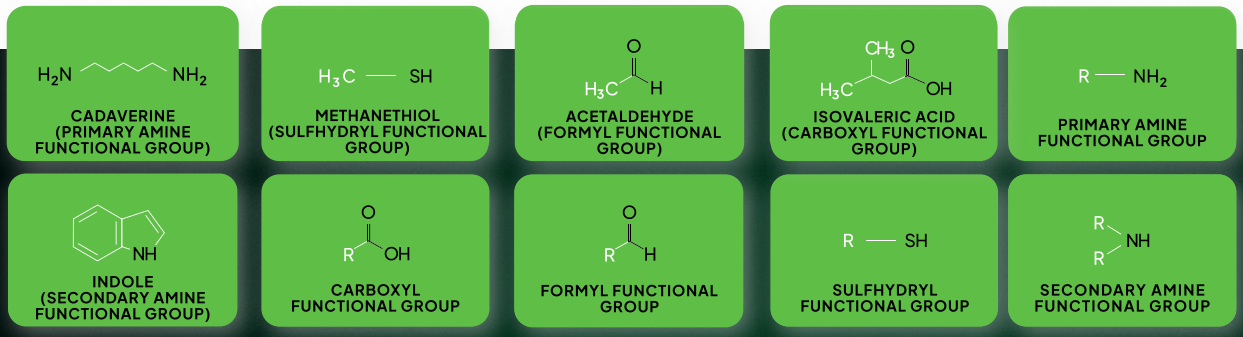
LEVEL 2

Breakdown of unpleasant odor molecules

Long-term effect due to microorganisms that decompose constituent parts of unpleasant odor compunds.

Molecules of unpleasant odor

“PureAir 3000" completely eliminates unpleasant odor by changing its structure to odorless molecules. Unlike alternative products, "PureAir 3000" destroys unpleasant odor, not masks it. Aromatic substances consist of electron donors (N, O or S). Functional groups are transformed into odorless molecules.



“PureAir 3000” efficiently neutralizes these unpleasant odor compounds:

Nitrogen compounds

- Ammonia
- Nicotine
- Cadaverine
- Putrescine
- Indole
- Skatole

Sulfur compounds

- Hydrogen sulfide
- Allicin
- Dimethyl sulfide
- Methanethiol (mercaptans)

Other compounds

- Acetaldehyde
- Organic acids

Dosage methodology of “PureAir 3000”

In many cases, manufacturers of alternative products suggest using their product at an already established product dilution ratio. We do not believe this is the correct methodology, as in most cases **fog generation systems are very different and have a wide range of spray capabilities/settings**. We calculate the **"PureAir 3000" dilution ratio**, considering how much product (ml) should go into **1 sq. m**. For this, it is necessary to know the **sprayed area of the device (sq. m.) and the device's spraying output (l/h)**. For your convenience, we provide **a formula** that can be used to easily calculate the required "PureAir 3000" dilution ratio (dilution takes place with clean tap water).

Our recommended product yield rate is: 6 ml (0,006 l) per 1 sq.m.

After entering the area to be sprayed into the formula (sq. m.) and multiplying it by the recommended output rate of the product "PureAir 3000" (l) and dividing it by the spray output of the device (l/h), we will get the required dilution ratio (%):

$$\frac{\text{(area, sq. m. * rate, l)}}{\text{output, l/h}} = \text{ratio, \%}$$

It should be noted that **depending on** the type of environmental pollution, the dynamics of its intensity and other changing **circumstances, the product yield rate (ml/1 sq. m.) can be adjusted** during practical tests, adjusting (calibrating) individually **according to the needs and expectations** to achieve maximum efficiency.

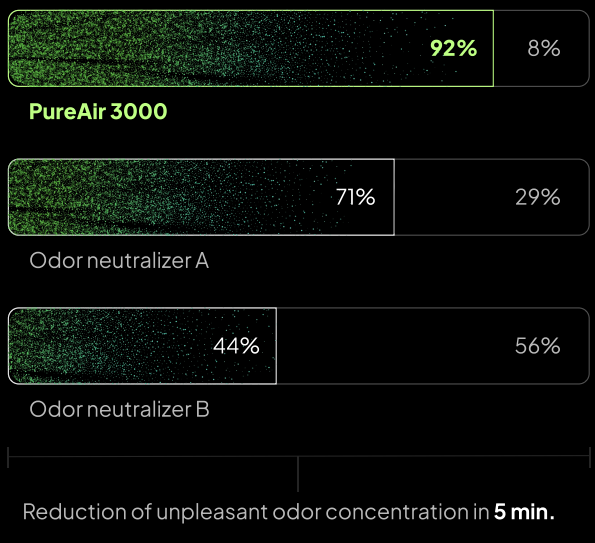
Effectiveness study in the laboratory. Comparison with alternative products

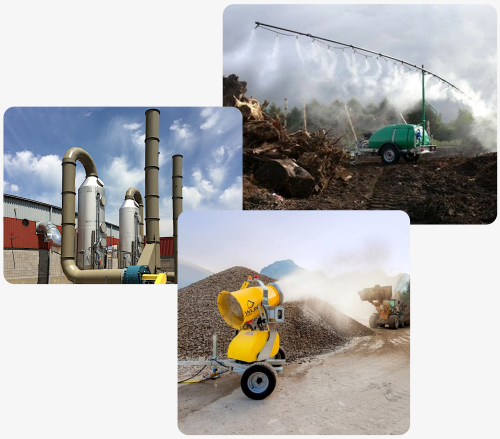
In order to offer an innovative and sustainable product, we conducted many experiments and laboratory tests during its development process.

Ultimately, we can confirm that "PureAir 3000" unpleasant odor neutralizing and eliminating agent is safe, free of harmful chemicals and characterized by high indicators of unpleasant odor elimination.

During laboratory tests, we ensured equal environmental conditions, and compared "PureAir 3000" with other odor neutralization products on the market and their efficiency indicators.

Based on measurements of the odor concentration of air samples in the environment, performed by the method of dynamic olfactometry (LST EN 13725:2022), a significant conclusion can be drawn: in just 5 min. "PureAir 3000" reduces the concentration of unpleasant odor in the air (OUE/m3) by about 92 %. Meanwhile, alternative products reduce the concentration of unpleasant odor by about 44–71%.





“PureAir 3000” for use with mist generation systems

Fog generation system - a technological device that generates microscopic droplets of artificial mist with active, odor-neutralizing substances, and sprays very fine droplets with a neutralizer over the surface of the odor-causing source.

- **Fog cannons (manual and automatic)**
- **Perimeter system**
- **Scrubbers**

Tailored packaging solutions

We understand that each customer has unique requirements, therefore we offer a range of packaging options tailored to meet your specific needs.

Whether you require small-scale retail packaging starting from 100 ml for distribution or large- scale industrial containers up to 1000 liters, we have got you covered.

Areas of application

- Landfills
- Sea containers
- Sewage treatment facilities
- Pumping stations
- Sludge disposal equipment
- Waste / Garbage reception / collection
- Waste sorting and handling
- Composting sites
- Food processing
- Biogas purification devices
- Farms

info@repeco.eu +370 650 96057 www.repeco.eu