



# How Bipolar Ionization Works

Eagle X Pro (EXP) is a patented air purification device based upon bipolar ionization technology (BPI), specifically developed to bring the health and quality of nature's air to indoor environments.

EXP Technology uses a corona discharge system to generate Oxygen ions  $O_2^+$  and  $O_2^-$  at a high density. These  $O_2^+$  and  $O_2^-$  ions have high chemical activity and when reacting with water ( $H_2O$ ) molecules in the air, hydroperoxide  $H_2O_2$  is formed. Once airborne, these hydroperoxides ( $H_2O_2$ ) then cluster around harmful pollutants. A chemical reaction occurs and the hydroperoxides ( $H_2O_2$ ) break down the protein structure of the pollutants, rendering them harmless.

While generating the highest density of Oxygen ions compared to any other technology on the market, our technology maintains undetectable levels of ozone.

## What is an Oxygen ion?

An Oxygen ion is an atom that has either lost or gained one or more electrons, so that it has an electrical charge. Oxygen ions can be either positively or negatively charged.

## EXPs' technology

In natural habitats, solar and thermal energies create positive and negative Oxygen ions that clean and renew outdoor air by removing harmful pollutants, such as viruses, bacteria, fungi, and mold spores. EXP technology generates these same positive and negative Oxygen ions — just like those found in nature — that purify and freshen indoor air by neutralizing the harmful pollutants.

## Neutralizes and Eliminates:

VIRUSES



BACTERIA



MOLD SPORES



FUNGUS



ODOR



SMOKE



DANDER

