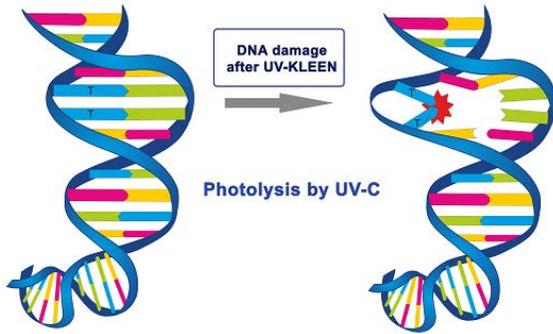


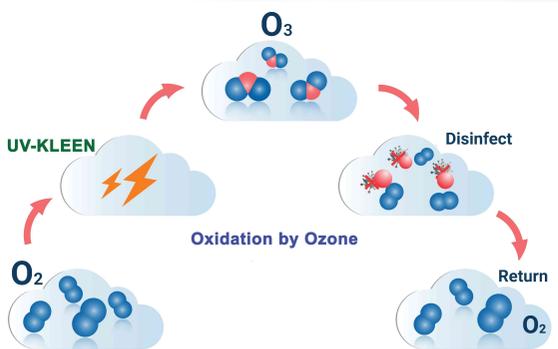
UV-KLEEN™ Technology

EP Lighting Inc used the proven disinfecting/sterilizing methods to make its own proprietary and patented system. The used methods are: Ultra Violet radiation (UVC), Ozone, Negative Ions, HEPA filter and TiO₂ photocatalytic oxidation.



UVC Radiation:

UVC (200-275 nanometer) is proven to be germicidal using its Photolysis action. Photolysis is a process in which the UVC light breaks the molecular bonds and rearranges them so the pathogens will not live any further. UVC is widely accepted by EPA, FDA and other national and international agencies as a "disinfectant and sterilizer".

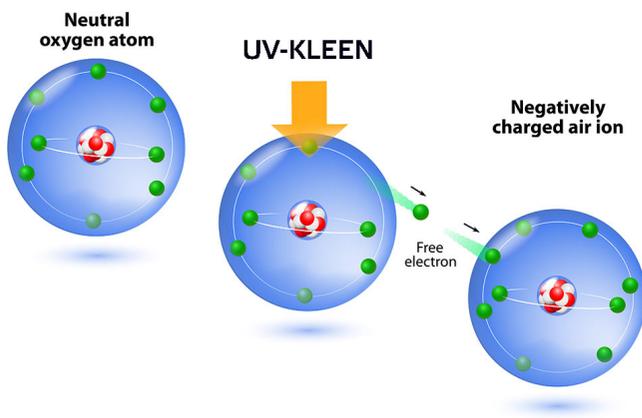


Ozone:

Ozone is a remarkably versatile and powerful disinfectant, a very strong oxidant and virucide, capable to oxidize a wide range of organic and inorganic compounds. It directly oxidize / destroy the cell wall rips the electrons in the pathogens, and damage the constituents of the nucleic acids, which has proven to be working extremely well with bacteria and viruses.

Negative ions:

Negative ions help to push the dust and allergens away from them. Negative ions help people in relieving the symptom of allergies to dust, mold spores, and other allergens. Negative ions also help to remove particulate matter.

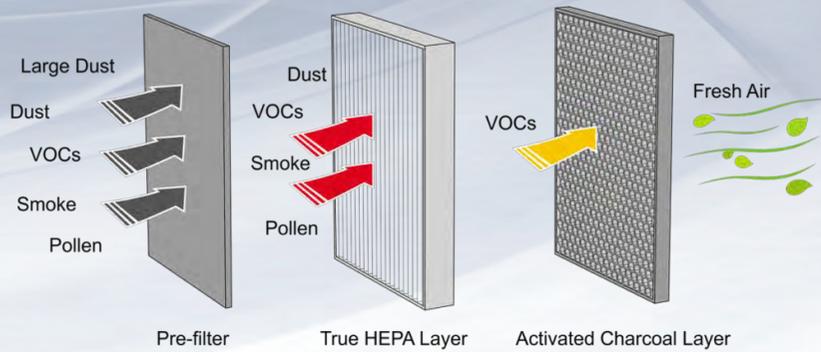


Negative Ions are scientifically researched to have the following benefits:

- kill or inhibit the growth of disease causing bacteria, viruses, and mold species
- reducing symptoms of depression/stress for some people
- having an activating influence on some body systems and cognitive performance
- regulates sleep patterns and mood
- boost immune system function
- increase metabolism of carbohydrates and fats

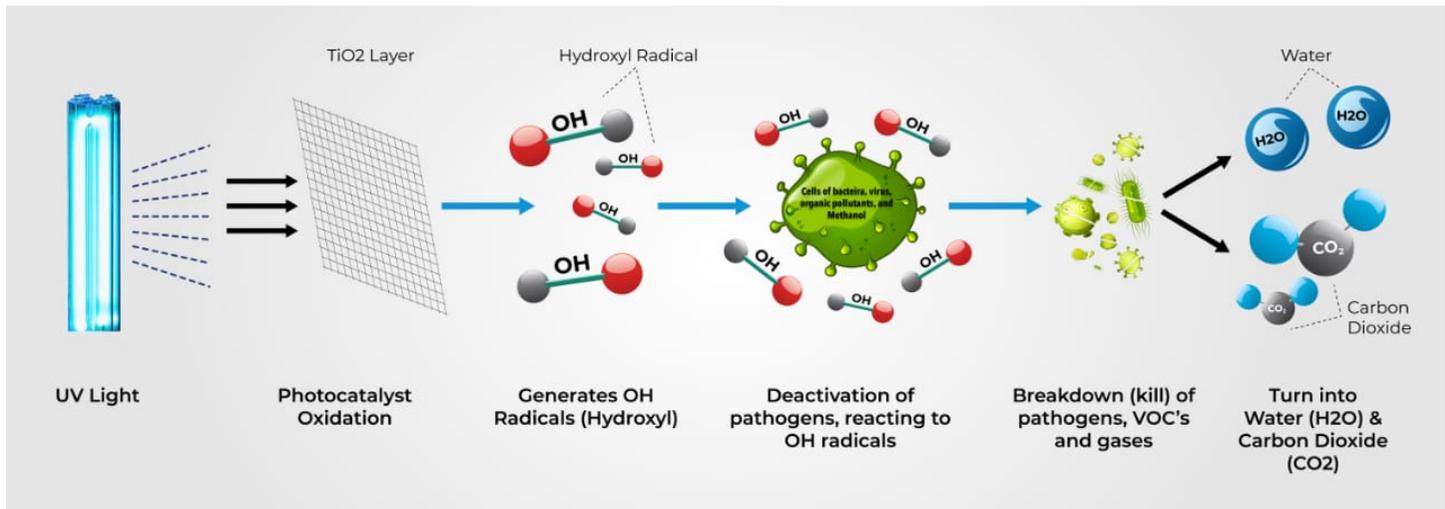
HEPA Filter:

HEPA, High Efficiency Particulate Air, filters out pathogens under 0.3 micro size to 99.97



TiO₂ Photo-catalytic reaction:

This Hydroxyl Radical generation method has been utilized many years by major air conditioning & refrigeration manufacturers such as Panasonic, Hitachi, etc. However, instead of UVC + TiO₂, EP has incorporated UVA + TiO₂, which gives 50% more of Hydroxyl Radicals output than UVC. UVA (320-400 nanometer) can react with TiO₂ to generate Hydroxyl Radical (OH) & superoxide ion (O₂⁻). Both OH and O₂⁻ can destroy & break down the cells of bacteria, virus, organic pollutants, methanol, and VOCs, leaving no residues but water and carbon dioxide.



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