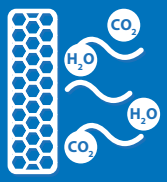
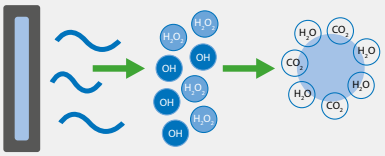
TECHNOLOGY

Photocatalysis

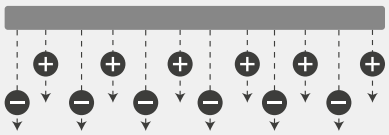


How does it work

These devices combine PCO technology together with positive and negative ionization of suspended particulate matter that has not been collected by the filters, grouping them and making them fall as they settle.



Positive and negative ionization of particles



Applications

Purifying air by disinfecting it using PCO technology is ideal for premises where people are continuously entering and exiting. These premises require a speedy, high efficiency disinfection due to the high rate of pollutants that may be circulating. PCO technology is also suitable for use at locations where there is a need to disinfect large material surfaces through the air.

Recommended for:

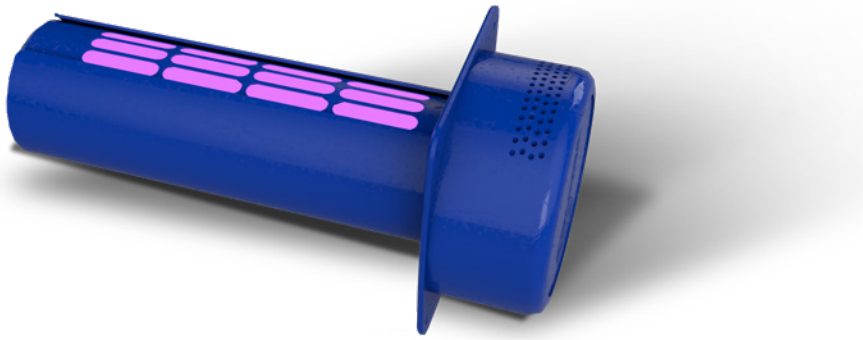
Hospitals, food industry, stores, offices, waiting rooms, clean rooms, libraries, etc.

Air purifiers with PCO (Photocatalytic Oxidation) technology incorporate a germicidal tool that combines UVc ultraviolet technology and oxidation to accelerate the natural decomposition of organic matter via photocatalysis, reducing pollutants such as chemical compounds, viruses, bacteria, fungi and other microorganisms. They are also efficient at eliminating gases and odours.

This technology uses the ultraviolet light source to react with a catalyst consisting of titanium dioxide in the presence of humidity to create hydroxyl radicals (OH) and hydrogen peroxide (H_2O_2), which inactivate microorganisms and harmful chemical substances that are constantly circulating through the air.

PCO photocatalytic technology

PCO technology is a powerful tool that is used for purifying air and nearby surfaces by accelerating the natural decomposition of organic matter through photocatalysis.



Additionally, our equipment has built-in modules with positive and negative ionization technology, which improve their purifying efficacy against ultra-fine dust and odours.

SODECA INDOOR AIR QUALITY DIVISION