Air sanification device for HVAC systems incorporating photocatalytic oxidation technology. SP UNIT for residential use

6 UVC LED

4 UVA LED

WASHABLE AND REGENERABLE FILTER

AUTOMATIC ON/OFF AIR SENSOR

ON/OFF SWITCH

QUICK AND EASY TO SET UP

PCO™ TECHNOLOGY

The Photocatalytic Oxidation, also known as PCO™, it's a chemical effect produced when a light source penetrates a surface that works as a semiconductor material, best known as a photocatalyst.

The photocatalyst absorbs the UV lights and creates oxygen particles such: OH•, OH-, O2-•, HO₂, thanks to a mix of noble metals, where Titanium Dioxide (TIO₂) works as the key element.

Titanium Dioxide it's a non-toxic substance, and it's high level of photoactivity, good behaviour and stability, added to its low cost, converts it in a very efficient material.

The PCOTM technology of the SP Unit modules is activated thanks to the UV LEDs in combination with the catalytic filter coated with TiO_2 (titanium dioxide).

This led strip composed of two UV-A LEDs and UV-C LEDs, rendering questions more effective modules odor reduction and also active against ultra-fine powders which are the most dangerous when inhaled by humans.

The filters are able to break down solid particles, volatile organic compounds, total nitrogen oxides, and bacteria.

NEW

PRODUCT PATENTED

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DESCRIPTION PCO[™] TECHNOLOGY

The **PCO[™] technology** of the SP UNIT modules is activated by UV rays in combination with the catalytic filter coated with TiO₂ (titanium dioxide).

The SP UNIT module is able to sanitize the air thanks to the PCO[™] technology or even by the UVC LEDs alone. Thanks to a sensor, capable of detecting the air flow, the device is able to switch off and switch on automatically. There is also a manual on and off button on the module.

The filters are capable of breaking down solid particulate matter (PST), volatile organic compounds (VOC), total nitrogen oxides (NOx) and bacteria (CFU).

