



**Pure
seen**

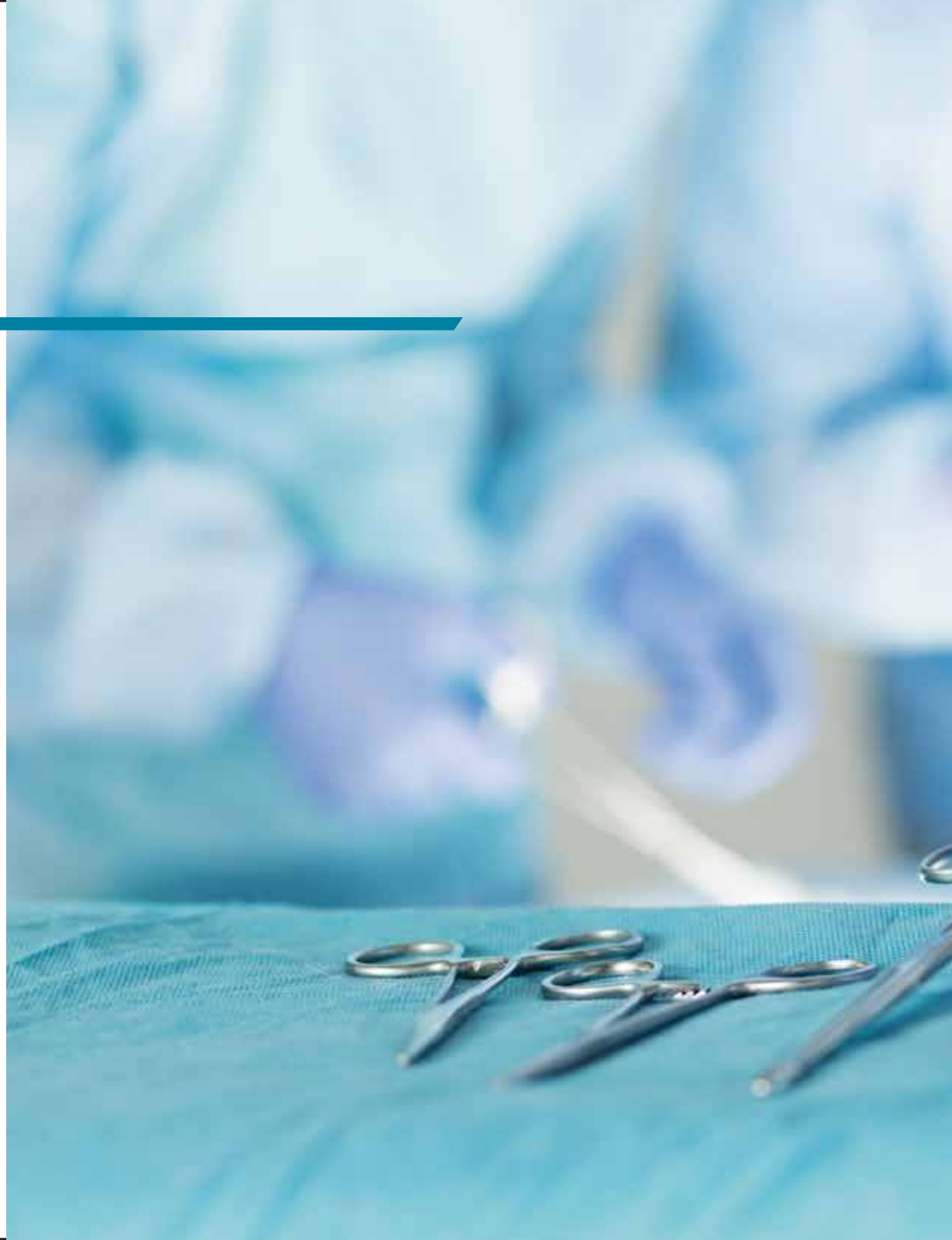
Purification of the air by photocatalysis Nasa-certified technology

Active Photocatalysis RCI (Radiant Catalytic Ionisation)



About us

MayzBXL BVBA is an Innovative platform and international solutions provider pursuit for operational excellence, efficiency and profitability. MayzBXL distinctive solutions are based on creativity, customer centric & intelligent integrations to offer the right technologies and the best business processes reshape that meet our client requirements and needs.





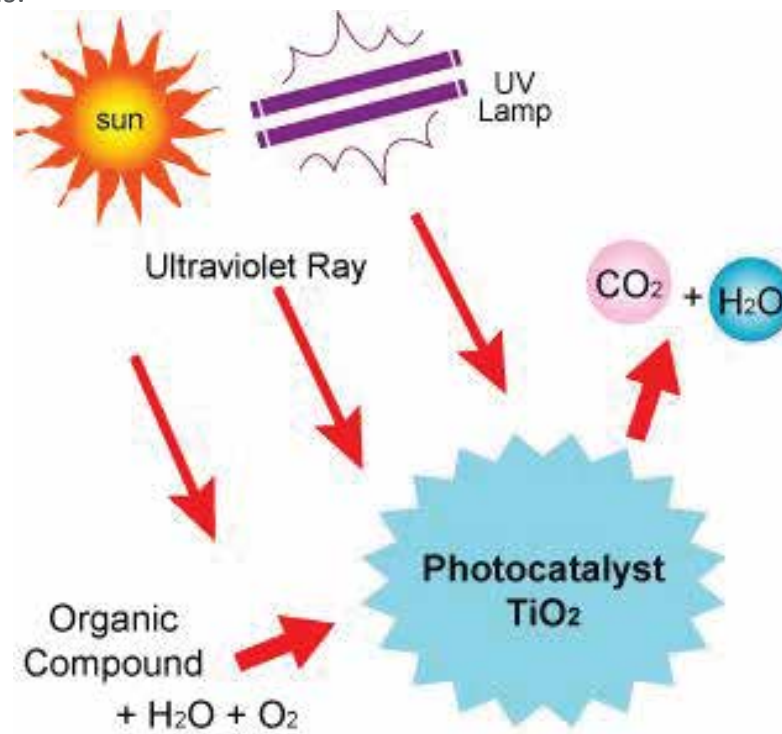
Who are we?

The MayzBXL network offers its end-users needed project skills, the best practices & unique expertise while ensuring the availability of required local support and service to sustain a successful implementation and experience. The leadership team & local partners of a relevant industry work closely together to offer clients thorough vision and practical solutions that meet client expectations.



PureSEEN™ Principle

Under the action of UV light (UV-A /UV-C), the catalyst (titanium dioxide TiO_2) creates electronic charges on its surface (e^- electrons and h^+ holes), which react with the dioxygen and water naturally present in the air to form radicals.





Air pollution

- ⚙️ Air pollution and especially indoor air pollution is a problem that has adverse effects on both our health and the environment.



Improving air quality is therefore an objective of
PureSEEN™





What are the different sources of pollutants ?

Pollutants of Natural origine:

- ⚙️ Volcanic eruptions that emit gases into the atmosphere
- ⚙️ Natural emissions of methane
- ⚙️ Forest fires that generate fine particles
- ⚙️ The mineral dust transported by the wind and resulting from the erosion





What are the different sources of pollutants ?







Pollutants generated by human activity:

- ⚙️ Air, sea and road transport
- ⚙️ fertilizers and pesticides used in agriculture
- ⚙️ Industrial activity and energy producers
- ⚙️ The treatment of waste
- ⚙️ Heating
- ⚙️ The gas emissions generated by animals





What are the main types of pollutants in the air?

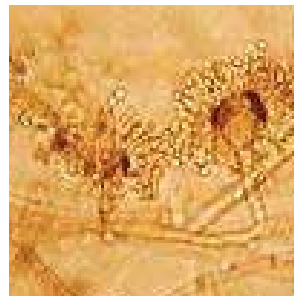
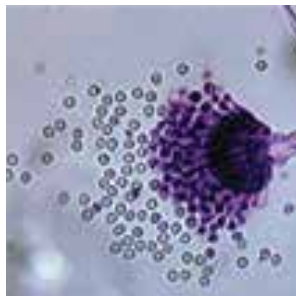
-  VOCs: volatile organic compounds including benzene, acetaldehydes, formaldehyde, etc.
-  Greenhouse Gases: Carbon Dioxide (CO₂), Methane (CH₄)
-  NO_x: nitrogen oxides
-  SO₂: Sulfur Dioxide
-  CO: carbon monoxide
-  PAHs: polycyclic aromatic hydrocarbons





What are the other contaminants in the air?

- allergens related to the presence of animals and plants
- natural fungal spores
- yeasts, molds
- bacteria, virus

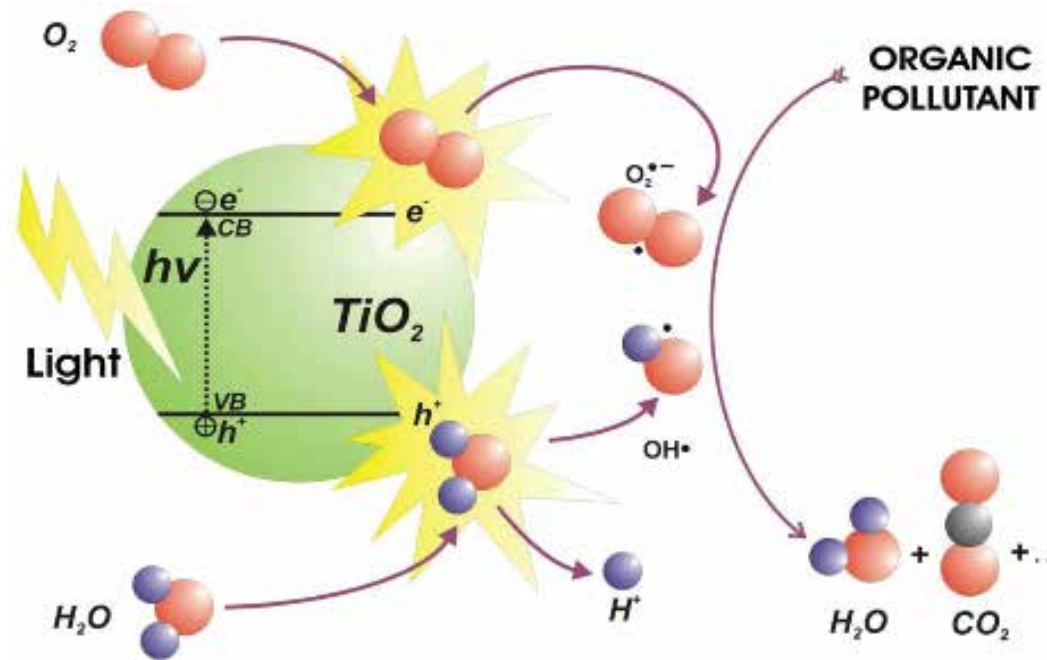




Principle of Photocatalysis

- ⚙️ The principle of photocatalysis is to cause, under the action of UV radiation degradation of materials, mainly organic (organic = anything that is not mineral).
- ⚙️ The chemical reaction is initiated by titanium dioxide, which reacts as a catalyst in contact with UV.
- ⚙️ A catalyst is not consumed or degraded by the reaction and a very small amount of catalyst makes it possible to rapidly transform a large quantity of molecules
- ⚙️ The activation of TiO_2 by UV will therefore allow the degradation of pollutants (any organic molecule, including VOCs, NO_x , but also structured organisms such as fungi, bacteria, viruses).

Principle



Photocatalysis is a very powerful chemical depollution process that allows total destruction of any organic pollutant and microbiological decontamination.





PureSEEN application areas

Odor removal	Contaminant removal	Disinfection	Waste cover
Fridge	Hospital	Hospital	Agro industry
Cabin Air	Building	Laboratory	
Industry	Wine Cellar	Storage	
	Industry	Home	







PureSEEN Advantages

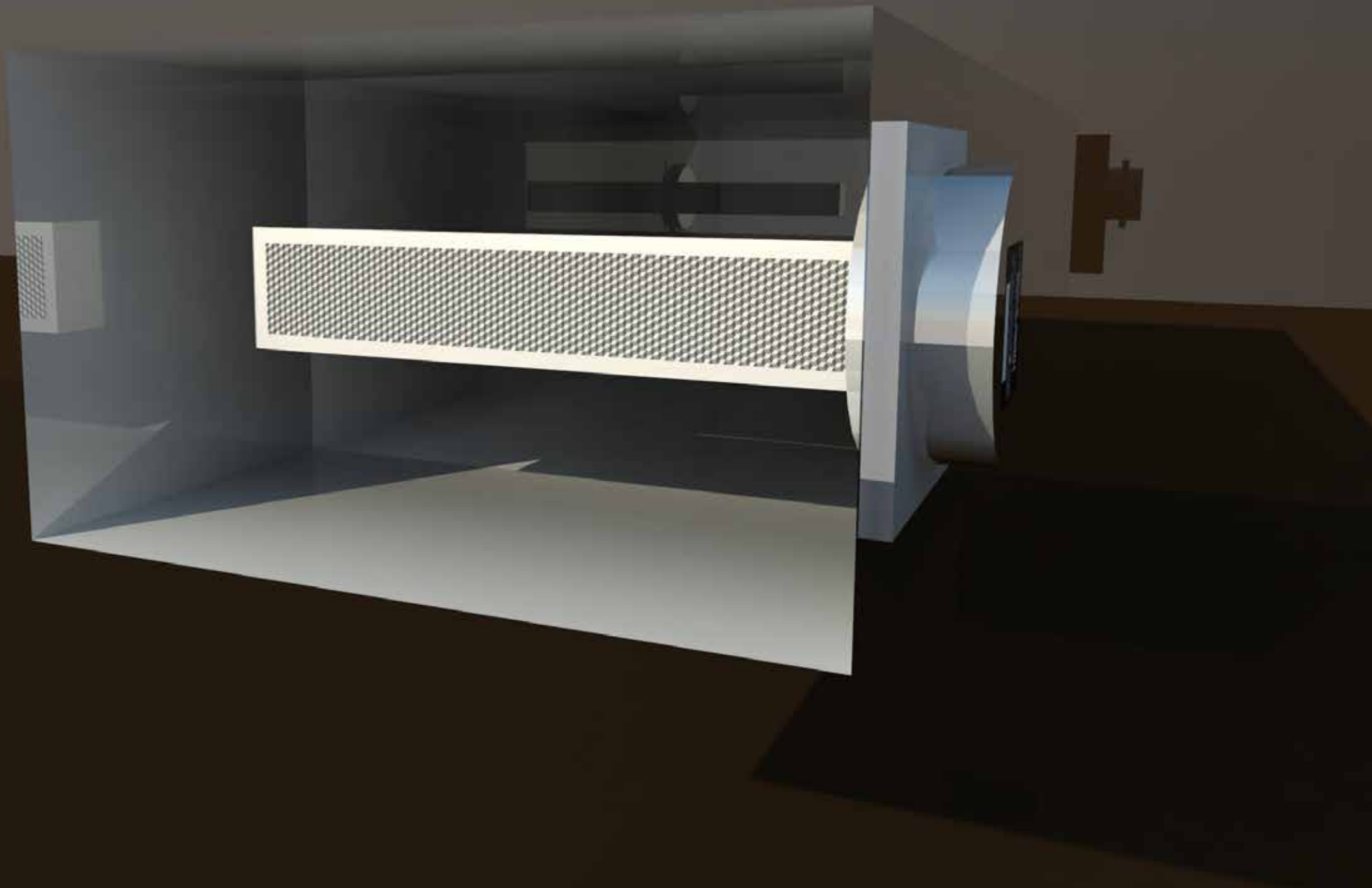
- ⚙️ Destroys chemical and biological pollution (VOC, bacteria, viruses, ...)
- ⚙️ Energy-saving technology
- ⚙️ Does not generate any pollutant
- ⚙️ Improves the sanitary comfort
- ⚙️ Eco-friendly and environmentally friendly process
- ⚙️ Wide application fields
- ⚙️ Reduces the risk of diseases (asthma, SARS, ..)
- ⚙️ Safe to use in the presence of anyone
- ⚙️ Does not require any additional security device

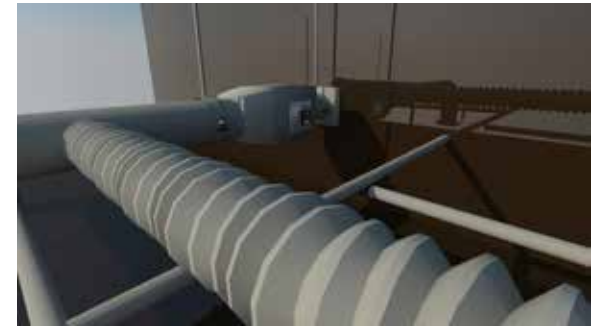
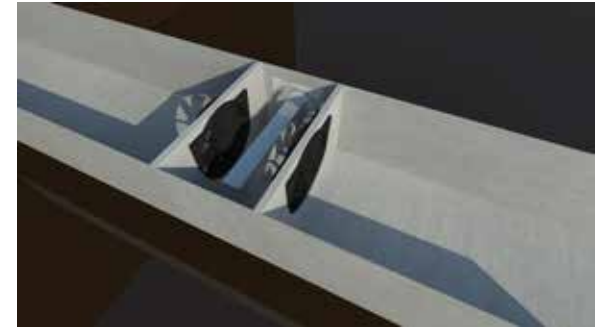
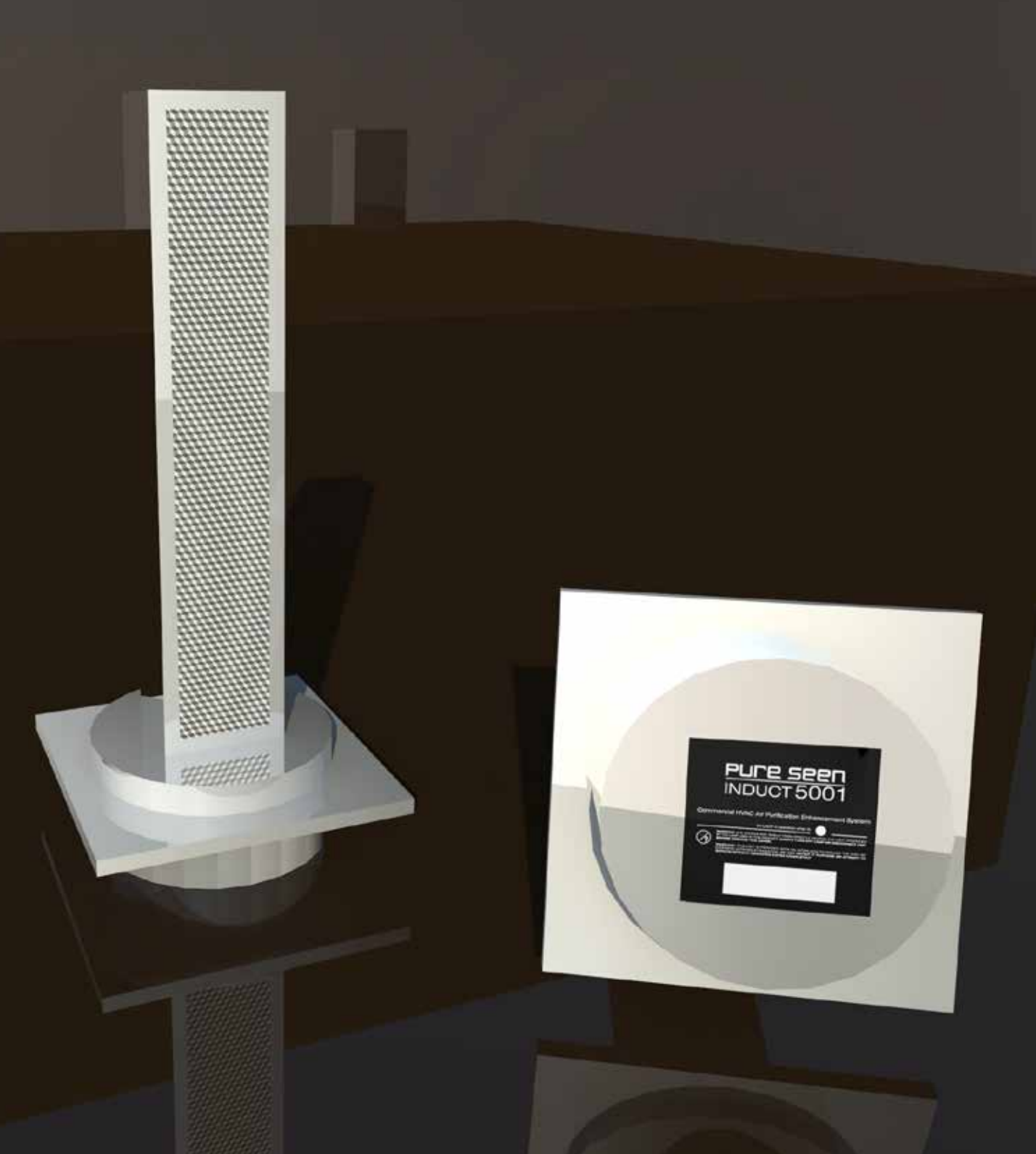
PureSEEN Characteristics

PureSEEN can offer you a range adapted to your needs

-  The device AP13 is fully certified with the CE Class 1 (Medical device) by the RINA laboratory in Italy
-  is the only air freshener that incorporates the latest technologies certified and adopted by NASA in the field of pollution control - removal of fine particles (double ionization) and disinfection / deodorization of air and surfaces (photocatalysis)









Green Technologyies

J. E. Mommaertslaan 22, 1831 Diegem, Belgium

