



# Clean Air

Clean indoor air.  
For you to breathe.



- Long-term stable catalysts
- High degradation of indoor air pollutants
- Low energy consumption
- Flexible usage
- Low maintenance effort

The most efficient air cleaning solution  
with photocatalytic technology

Developed and  
manufactured in Germany





# Air cleaning solution

## Clean Air



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### Breathe clean air!

We spend most of our day indoors, about 2/3 of the time in our own apartments. An average adult person breathes about 24 kg of air every day - which is much more than what we drink and eat. Indoor air can be a hundred times more polluted than outside air\*. This is why our goal is to improve the indoor air quality as best as possible.

\* According to U.S. EPA  
(Environmental Protection Agency)



#### Flexible integration in rooms

- Flat panel like design for easy installation on walls and ceilings
- Vast catalogue of front panel designs
- Five user selectable levels of intensity

#### Status LED

- Optical indication if maintenance of the inlet filter is required

#### Air quality control

- Precise measurement of CO<sub>2</sub> level, indicated by multi colored signal



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### Advantages at a glance

#### Comfortable indoor climate

- Decomposition of toxic organic indoor pollutants like solvents, phthalates, odors, allergens and multiresistent germs
- Significant improvement of the indoor air quality

#### Use of high-quality fans

- Low noise
- Highest reliability

#### 100 % harmless end products

- No metabolized end products (in contrast to ozonation)
- No disposal of waste materials (like active charcoal filters)

#### Long-term reliability

- Long term stable catalyst
- Long term stable UV lightsources (>40.000 h MTBF)
- Magnetic fan bearings
- Air cleaning process is permanently monitored by an array of sensors

#### Easy installation

- Easy mounting on walls and ceilings

#### Environmentally friendly

- Sustainable production in Germany
- Highly reliable construction and use of recyclable materials

#### Technical specifications

Ventilation rate in the breathing zone	300 m <sup>3</sup> /h according to DIN EN 16798-3*
Dimensions	1320/ 730/ 120 mm
Weight	25 – 35 kg (depending upon configuration)
Power rating	max. 55 W
Electrical connection	Mains plug with protective earth
Certification	TÜV tested, CE compliant

\* when positioned optimally in the room

#### Diverse applications

- For schools, Kindergartens, office environments, public and medical facilities, and for your home

#### High quality materials and use of sustainable components

- Mainly used raw materials: glass, stainless steel and aluminum



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High air throuput, low noise and small energy consumption  
 – usage in organically polluted indoor room of any kind.

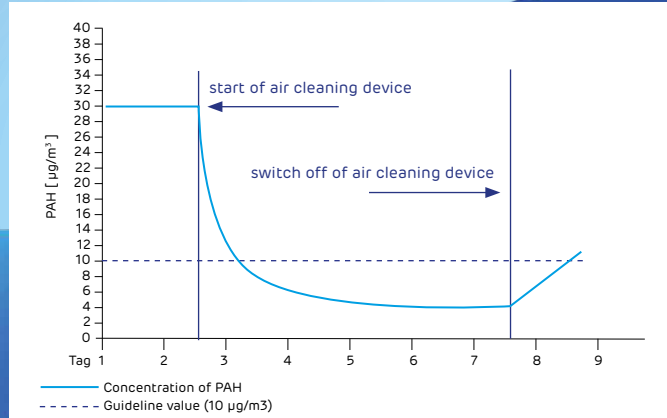


Figure: Characteristical degradation of hazardous substances by Lynatox Clean Air technology

Especially with organic contaminated rooms, the Lynatox technology has proven itself. The graphic shows the degradation of polycyclic aromatic hydrocarbons (PAH) in the indoor air. The cleaning effect of the Lynatox technology is usually far superior to other state of the art technologies.

## Photocatalysis

The photocatalytic effect describes a physical process on semiconducting materials. Semiconductors, such as titanium dioxide, can be transferred to a conductive state by light at certain wavelengths. For titanium dioxide, this is the case with UV-A radiation. As a result of the energy input, charge separation and formation of electron holes occur in the semiconductor.

The electron holes can react with humidity and hydroxide ions to hydroxyl radicals. This radicals are a very strong oxidant, which can oxidize organic indoor air pollution to water and carbon dioxide. Following scheme shows the principals of the photocatalytic effect.

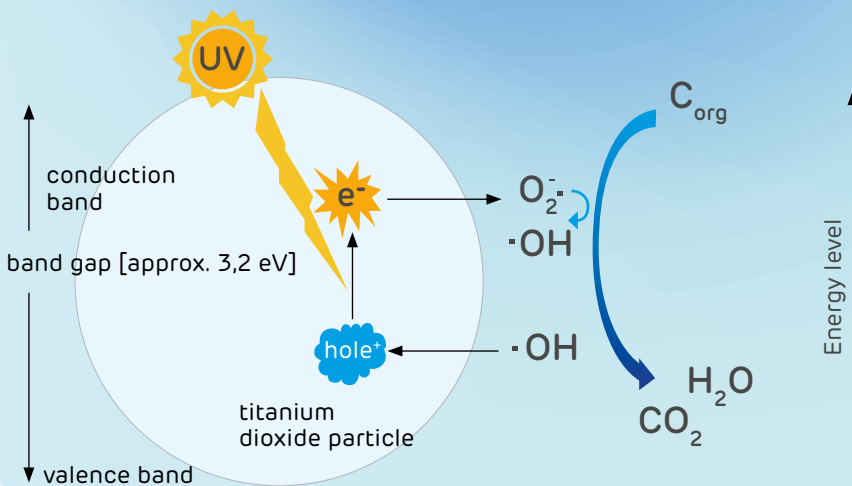


Figure: Principle of photocatalytic degradation of hazardous substances

Feel free to contact us!



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