

Phot-OX

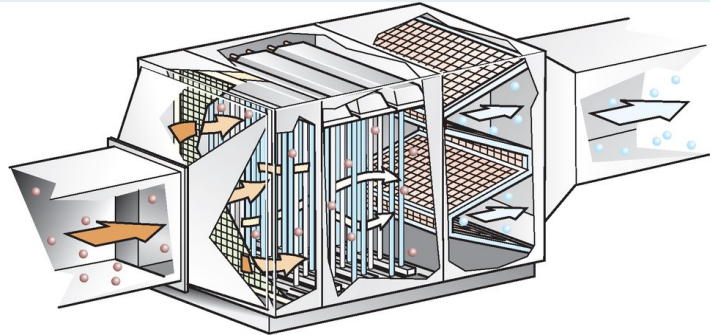
Photo – Oxidation system for the destruction of Volatile Organic Compounds (VOC's) and other odorous contaminants.

The VOC challenge:

Non-water soluble VOC's can be highly odorous and present a significant abatement challenge, the most common methods are activated carbon, biofilters or Regenerative Thermal Oxidisers (RTO's). Both activated carbon and RTO's are effective solutions but very expensive operationally. Biofilter's work well on certain VOC's but not others.

Description:

The Phot-OX system is used to destroy VOC's and other organic and inorganic odours in waste gasses. The contaminants are oxidised by exposure to shortwave (UV-C) light. The UV lamps create ozone, a powerful oxidant, that oxidises the contaminants, any partially oxidised contaminants are passed through a catalytic module that completes the reaction and converts any unreacted ozone back to oxygen.



Waste air passes through a filter and is oxidised by the UV-C light section, the waste air then passes through the catalytic module to complete the reaction.

Benefits:

- Low operational costs
- High removal efficiency
- Small footprint
- Minimal maintenance
- No water or chemicals required

Applications:

- Waste Water Treatment
- Food Waste AD plants
- Metal finishing plants
- Food processing plants
- Kitchen extraction systems
- Printing plants
- Paint and Varnish manufacture and spraying

500 m³/h - Odour elimination for a waste water treatment plant

