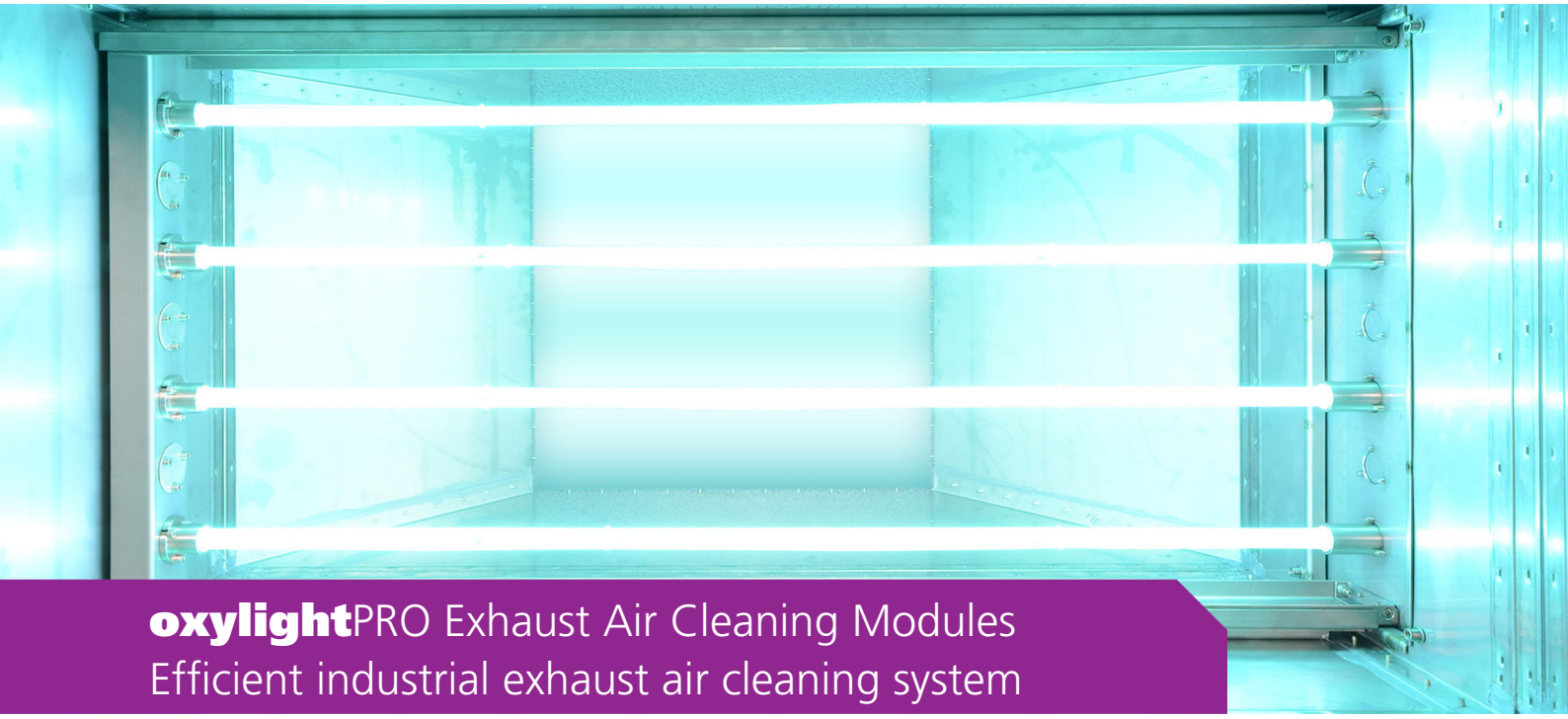
Peschl Ultraviolet
advanced uv-products

PRODUCT INFORMATION



oxylightPRO Exhaust Air Cleaning Modules
Efficient industrial exhaust air cleaning system

Modular concept for all flow rates

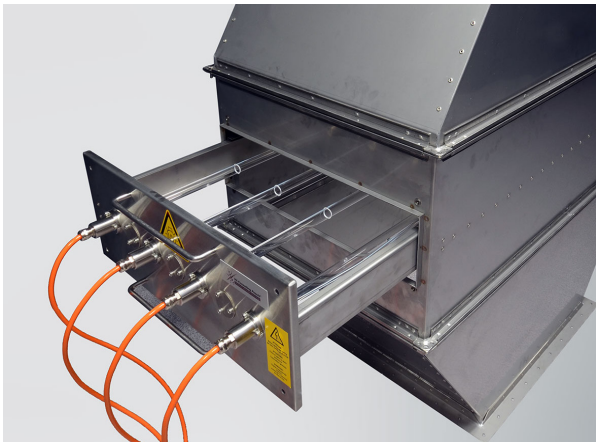
Application

To comply with the German 'Technical Instructions on Air Quality Control' (TA Luft) and the German Federal Immission Protection Act, limit values must be adhered to. Requirements stipulated by local licensing authorities or complaints by local residents - for example, in the event of elevated odour nuisance in residential or residential mixed use zones - also make treating exhaust air necessary. In addition, exhaust treatment is necessary for economic reasons. For example, heat recovery systems for organically polluted air can only be used effectively if the air is first filtered.

Functional principle

The atmosphere is capable of cleaning the air through the decomposition of organic matter by means of complex photo-chemical reactions. Hydroxyl radicals are an essential part of the atmosphere's self-cleaning capacity. These radicals oxidise industrial hydrocarbons and emissions (e.g. VOCs, odours, etc.) including the greenhouse gas methane. The radicals can be efficiently and economically produced using **oxylight**PRO vacuum UV modules.

We reliably implement nature's self-cleaning principle on an industrial scale.



oxylightPRO modul integrated into building exhaust air duct

UVTRONIC power supply and control unit with LCD display (IP66, stainless

Product description

Each **oxylight**PRO module consists of a VUV module for integration into the exhaust system, as well as a **UV**TRONIC control and power supply unit for operating the high-power VUV radiation sources built into the module. Thanks to the modular concept, systems of any size can be easily and economically scaled to meet specific requirements.

The VUV radiation sources used have been developed specifically for the **oxylight**PRO modules and, together with the intelligent control and power supply technology, they constitute the core component of the solution. Only the use of P-UV high-power vakuum-UV radiation sources ensures that the high requirements on industrial exhaust air cleaning can be met on a sustainable and measurable basis.

Typical applications

- **Waste management** (waste water treatment plants, waste oil recycling, waste storage in industrial and residential complexes, sorting stations)
- **Agriculture** (animal husbandry and breeding)
- **Slaughterhouses** (rendering facilities)
- **Food and luxury food industry** (frying, fishing, roasting, tobacco factories, cereal production, commercial kitchens, ...)
- **Chemical industry** (plastics processing, VOC reduction, solvent degradation, methane degradation)
- **Rubber & paper industry** (vulcanising operations, paper mills)
- **Ventilation and air conditioning systems** (airports, hospitals, semiconductor industry)

Designing

The requirements for the exhaust air cleaning vary greatly depending on area of application, substance concentrations and setpoint specifications. That is why **oxylight**PRO modules are configured individually for each process and reliably designed, in consultation with the operator.

We support you with our experienced and knowledgeable process engineers and provide you with test systems for full and partial volume flows when the tasks are more complex. You can rely on our many years of experience in industrial photochemistry and exhaust air treatment.

Intelligent control board for the **UV**TRONIC control and power supply unit

Controller functions

- Sequential lamp start to prevent grid overload when switching on
- Operating hours counter with pre- and main-alarm for lamp replacement
- Event logging
- Signal input for connection of the module using external signal (e.g. building control system)
- Alarm output to higher-level control (building control system)
- Emergency stop function
- Visual and acoustic alarm signalling
- Programmable daily and weekly timer function
- Selectable automatic or manual system start up
- Secure control system through self-monitoring power relay and protective shut-down
- Password-protected menu
- Open bus protocol for additional displays and functions
- Multilingual LCD display
- Protection class IP 66 with internal temperature control

Modul description	Air flow range	Controller
oxylightPRO 66/x	500 - 2.500 Nm³/h	UVTRONIC
oxylightPRO 612/x	2.500 - 5.000 Nm³/h	UVTRONIC
oxylightPRO 1212/x	5.000 - 10.000 Nm³/h	UVTRONIC
oxylightPRO 1215/x	6.500 - 13.000 Nm³/h	UVTRONIC
oxylightPRO 1515/x	8.100 - 16.200 Nm³/h	UVTRONIC

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