CLEANER AIR. FEWER RESOURCES.

ColdOx®

Effective odour treatment by photooxidation

ColdOx[®] is a well-proven technology for reducing VOC and odour emissions. Applications where ColdOx[®] is considered the **best available technology** include **wastewater treatment plants, food processing, waste, biogas and slaughterhouses.**

Higher removal and stable operation together with lower investment cost, operating cost and climate impact make ColdOx® the natural choice for odour treatment.

Using photolysis, the UV reactor breaks down particles, creates ozone and converts ozone into free oxygen radicals.



ColdOx[®] oxidizes VOCs and eliminates odour through the use of **high intensity UV**, excess ozone, and photo chemical **oxidation supported by special purpose catalysts**. The UV reactor achieves **odour reduction of up to 90% on its own.**

The ColdOx® reactor can be supplied as a standalone unit, but is usually combined with a stacked carbon filter (Dualbed) with low pressure drop. The combination of high efficiency UV reactor and activated carbon achieves >98% reduction

The units are designed to be placed both indoors and outdoors. Separate pre-separation stages for Ammonia and H_2S are a common addition in more demanding applications with high incoming levels.

The ColdOx[®] system is supplied as a "plug and play" solution where control cabinets are supplied with prefabricated cables to reduce on-site installation work. The system has dual safety systems to ensure safe operation without ozone leakage.

Centriair offers preventive maintenance with intelligent monitored control systems and the option of service contracts.

ColdOx[®] - functionality



LER FOOTPRINT THAN A BIOFILTER COMPARED TO

GER LIFETIME CARBON FILTER EMISSIONS COM-PARED TO INCINE-RATORS

DUCTION RATE

ON INVESTMENT WHEN REPLACING TO BIOFILTER AND INCINERATORS

OPEX COMPARED ACTIVE CARBON

Technical data ColdOx® UV Reactor

Performance	98-99 % odour removal
Process gas flow	300-> 200 000 m ³ /h
Electrical connection	380-400 V/3-ph+Neutral/50 Hz or 480 V/3-ph+Neutral/60 Hz
Material	Stainless steel AISI 304 or 316
Wash water	~10 liter per day
Lamps running hours	16 000 h