



ODOR REMOVAL **WASTE** WATER

WELCOME TO A NEW ERA OF PRECISION AIR TREATMENT

- Typical separation degree 97- 99% OU
- Carbon life extended 2-4 times
- Small footprint – only 10-20% of traditional Biofilters.

centriair 

Cleaner Air. Fewer Resources.



Odor removal in Wastewater

Sewage treatment plants often produce odors that shouldn't be released. Examples of processes that are particularly smelly are sludge dewatering and inlet treatment.

Odor removal in Wastewater

We have long operational experience from wastewater applications where high levels of for example H₂S and ammonia lead to a bad, possibly dangerous, working environment. Odor from pumping stations, network ventilation and treatment plants is a problem for most municipalities. Solutions from small to very large air flows are needed, and it is important to choose a technology with high efficiency and reasonable operating costs. Storage tanks in biogas production, hydrolysis, and sludge treatment typically have quite high concentrations of odorous compounds vented in low air volumes. For these applications, our three compact series are ideal. For the large mixed airflows in a wastewater treatment plant a ColdOx[®] system is hard to compete with.

Pumping Stations

Pumping stations are a focus segment for us since several years. We have delivered, and are operating, a very wide range of sites. From small but very problematic 100 m³/h stations with our catalytic DEO™, to large ColdOx[®]. The common denominator is a sensitive location and often a history of complaining neighbours.

Wastewater Treatment Plants

Wastewater plants is a key focus area for Centri-air, one we have been active in almost since the company was started. For wastewater treatment plants, the actual cases vary a lot, we do installations from inlet to clarification stages, with varying concentrations and dimensioning.

Sewage Network Ventilation

This application area has very strong variations, both in concentrations and airflows, but typically large volumes in the lower odor range. ATEX may be needed depending on region and type of station. The long Emscher canal is a proud example, with 17 ColdOx[®] units installed along its length, with a total airflow of 390 000 m³/h.

Our technical solutions are adapted to handle any odor problem in wastewater with high performance while at the same time optimizing energy consumption, footprint and maintenance need.

In summary, we have a strong portfolio of suitable technologies and wide experience in how to apply them. We dare to say that we can solve most odor problems encountered in Wastewater, and do it well.

The smarter way to treat odor

REDUCE ENVIRONMENTAL & HEALTH IMPACT

Highly effective climate emission reduction.
Increased media life with multi-stage technology.

SAVE ENERGY, SPACE & MONEY

Ensure the highest energy efficiency, smallest footprint and lowest total cost of ownership.

HIGH PERFORMANCE GUARANTEED

Guaranteed high performance with specialized solutions for key industrial applications, controlled and verified by real-time data.



Discover the next generation of precision air treatment



DEO™

Unique proprietary catalyst technology. H₂S, NH₃, DMS.

- High concentrations.
- Airflow < 2.000 m³/h



ColdOx®

UV-Oxidation supported by special purpose catalysts.

- Low and medium concentrations.
- Airflow < 2.000–500.000 m³/h



SulphaRed™

H₂S prefiltration.

- High concentrations of H₂S
- Airflow 150 - 20.000 m³/h



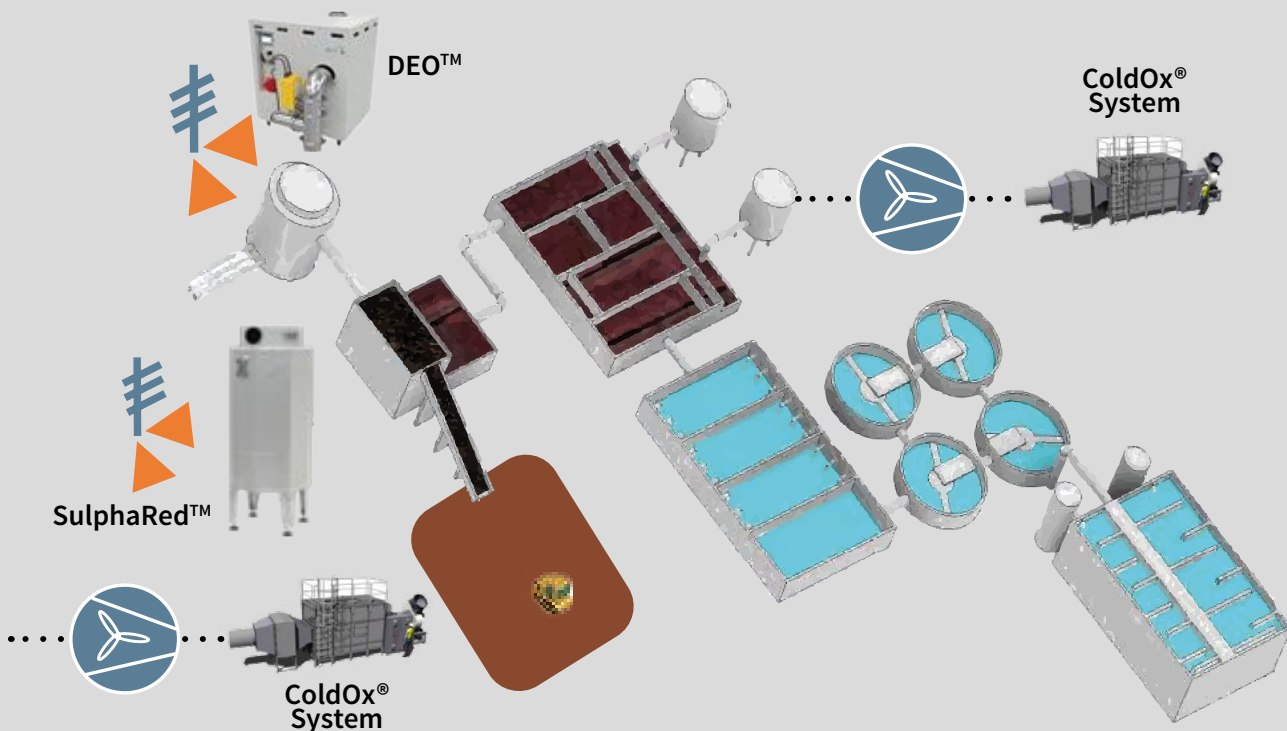
ColdOx® R-series

Fully integrated compact version of the ColdOx®.

- Low and medium concentrations.
- Airflow 2.500 m³/h

Every gas has it's weakness – we target it with precision

Our technologies will treat any process where odor protection is needed, covering volume flows from 100 m³/h up to 320 000 m³/h.



Application expertise

A strong track record of expertise in applications ranging from biogas production to solid waste and wastewater management.



MITTSKÅNE VATTEN Hörö SE
Pumping station 100 m³/h
> 95% odor reduction DEO-100™



NODRA Norrköping SE
Main pumping station and inlet at NODRA 39 795 OU/m³ 575 OU/m³
> 98,6% odor reduct. ColdOx® Systems x 2



NODRA Norrköping SE
Sludge removal NODRA 891 LE/m³ in 18 LE/m³ out
Tank venting
> 98% odor reduction ATEX solution



SKÖVDE Skövde SE
Septic tank sludge 4200 m³/h 21 173 to 30 ou/m³
> 97,7-99,5 % reduct. ColdOx® System



RENA HAV Sotenäs SE
Industrial WWTP 30 000 m³/h
> 95% odor reduction ColdOx® system, SulphaRed bi-flow



LEVA I LYSEKIL Lysekil SE
Pumping station
> 95% odor reduction DEO-100™



HAMBURG WASSER Hamburg DE
Sewage treatment plant 7 500 & 8 000 m³/h
500 m LE/m³ at outlet ColdOx® system + SulphaRed



BORÅS Borås SE
20m next to public beach 150 m³/h
> 95% odor reduction ColdOx® system



EMSCHER LIPPE Emscher DE
Sewage network 50 km 390 000 m³/h
> 95% odor reduction ColdOx® system x 18



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