



# ODOR REMOVAL WASTE

WELCOME TO A NEW ERA OF PRECISION AIR TREATMENT

- Eliminate harmful VOC and odors.
- Real-time monitoring and optimization.
- Reliable system with minimum operational costs.

centriair

Cleaner Air. Fewer Resources.



# VOC & Odor treatment for Solid Waste

*Handling and converting organic or compostable waste to biogas raw material is a process that involves odor challenges. Typically, it will involve reception from trucks, storage, pressing and other handling stages.*

Depending on the type of waste handled, volumes and size of hall, the solutions are adapted slightly. Place of installation will also affect the final solution, is the installation inside or outdoors, can standard vessels be used or is something tailored to fit into a certain area needed.

### Solid Waste Handling

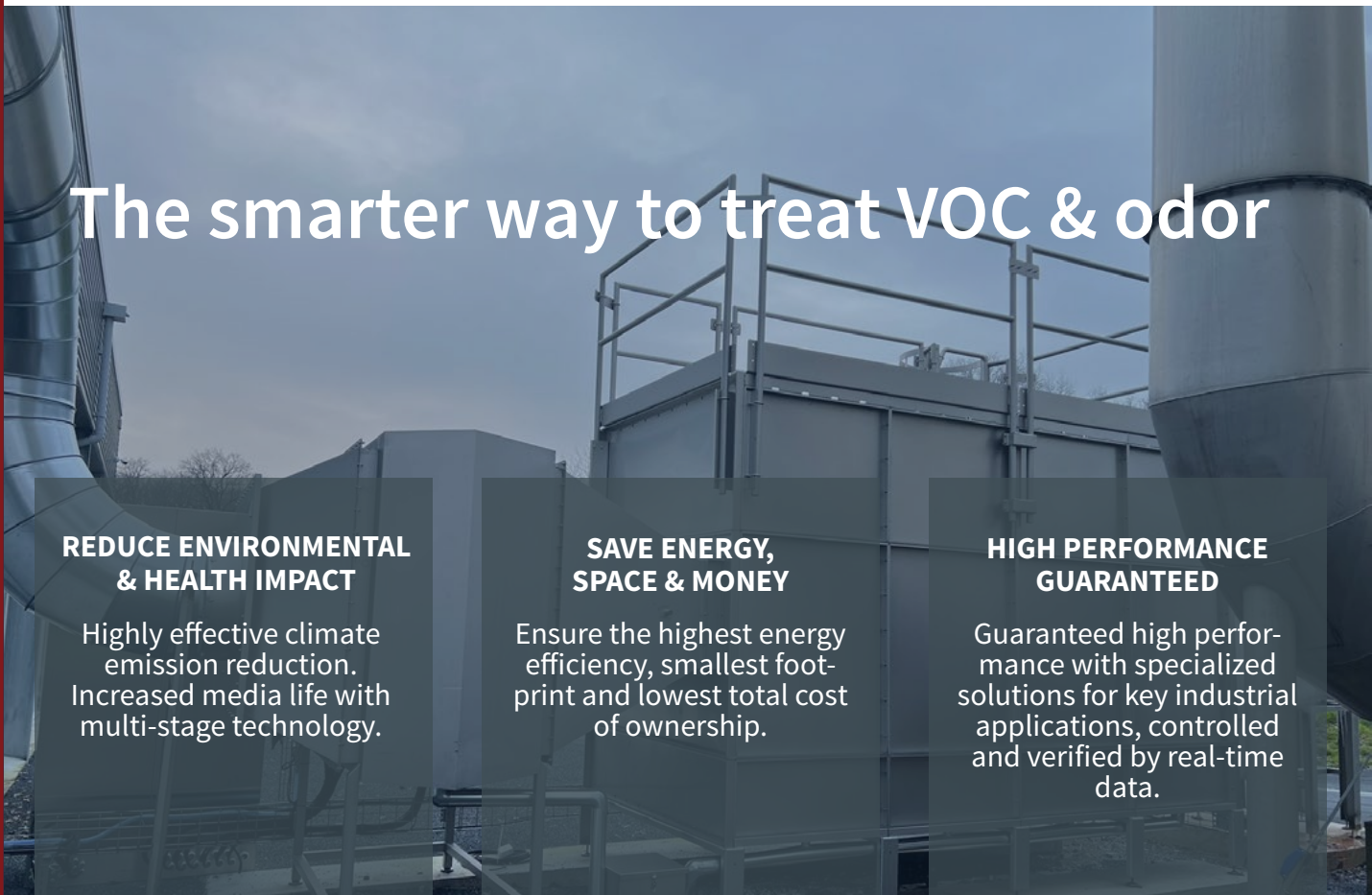
Solid Waste Handling is an industry that is critical to society, Waste must always be processed with short lead times, so the reliability of all components in the plan is essential. Typically these are large facilities that also need high Air Change rates to ensure that working conditions are acceptable. The effect is a large airvolume with unpleasant smells. Our ColdOx™ solutions effectively eliminate odor emissions at significantly lower energy use compared to competing systems. In addition a

very limited footprint is needed saving plant space. The system's reliability and stability is high and the maintenance cost-effective and quick. The system achieves up to 98% performance rate at any temperatures with a minimum energy requirement.

### Composting

Composting includes reception halls, in some cases machining, composting tunnels and maturing.

Odor concentrations vary strongly depending on the type of process, but also type of feedstock. With high humidity and usually ammonia load, we typically use a combination of scrubber and ColdOx.



## The smarter way to treat VOC & 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



## ColdOx®

UV-Oxidation supported by special purpose catalysts.

- Low and medium concentrations.
- Airflow <math>< 2.000-500.000 \text{ m}^3/\text{h}</math>

## ColdOx® R-series

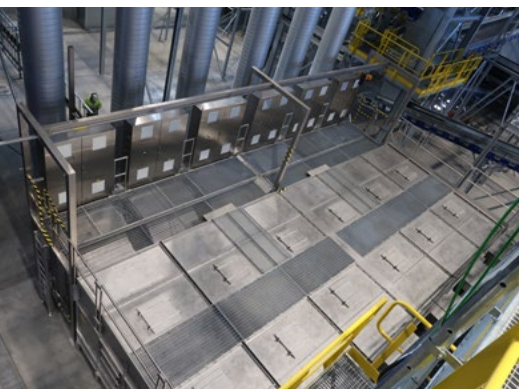
Fully integrated compact version of the ColdOx®.

- Low and medium concentrations.
- Airflow  $2.500 \text{ m}^3/\text{h}$



# Application expertise

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



**STOCKHOLM EXERGI** Brista SE  
Waste reception 185 000 m<sup>3</sup>/h  
> 95% odor reduction ColdOx® system



**RENOVA** Göteborg SE  
Organic waste 72 000 m<sup>3</sup>/h  
> 95% odor reduction ColdOx® x 3



**RENOVA** Göteborg SE  
Hazardous waste 67 000 m<sup>3</sup>/h  
> 95% odor reduction ColdOx® system



**STOCKHOLM VATTEN OCH AVFALL** SE  
Waste sorting 72 000 m<sup>3</sup>/h  
> 95% odor reduction 5 parallel UV+Carbonsystem



**GEMIDAN** Frederikshavn DK  
Receiving and pre-treatment of organic waste 58 000 m<sup>3</sup>/h  
> 95% removal rate ColdOx® system



**HEM** Halmstad SE  
Solid Waste 90 000 m<sup>3</sup>/h  
> 95% odor reduction Filtration+ColdOx®

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