



HAARSLEV™

Processing Technology

REGENERATIVE THERMAL OXIDIZER

Product brochure



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TO COMBAT VOC-RELATED ODOR PROBLEMS WHEN RENDERING AND PROCESSING MEAT AND FISH BY-PRODUCTS – AND IN OTHER INDUSTRIAL PROCESSES.

According to the EU Environmental Protection Agency, this is the best-available technology (BAT) for combating unpleasant odors in gaseous air flows from cookers and dryers used in rendering processes.

APPLICABLE FOR:



- Eliminating VOC-related odors from process air used in rendering operations
- Purifying vapors from cookers and dryers in rendering plants
- Treatment of non-condensable gases coming from vapors condensation

A Haarslev Regenerative Thermal Oxidizer guarantees minimum 98% odor reduction at the same time as ensuring the highest possible thermal efficiency.

This regenerative thermal oxidizer system is built around a high temperature oxidation process that inputs gaseous effluents with a complex and variable composition of odor causing compounds to be broken down into simple, easy-to-manage mixture of gases mainly composed of CO₂ and H₂O, while using as little energy as possible.

The exceptional energy-efficiency of this system stems from the fact that a substantial proportion of the thermal energy needed for the oxidation process is continually transferred to – or recovered from – the special ceramic material inside the three large vertical rectangular sections.

Haarslev is the only manufacturer that builds both rendering and thermal oxidation systems, ensuring customers the best possible integration and streamlining of these two key technologies and systems.

BENEFITS

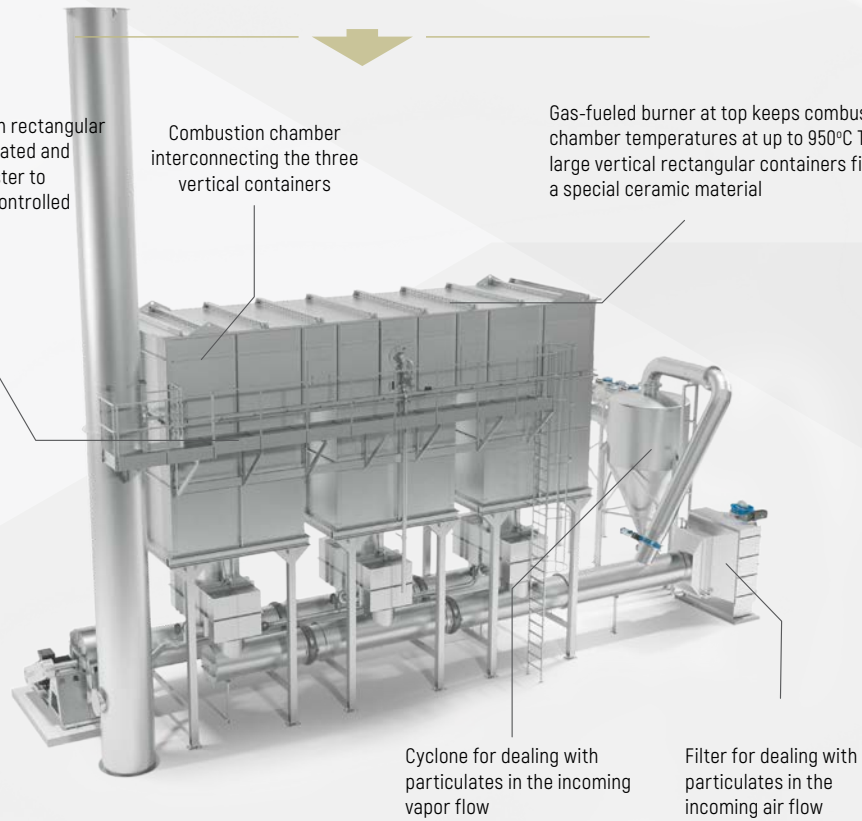
- Most effective odor-reduction technology currently available for use with bioproduct processes
- Easy front-end control
- Most thermally efficient recovery of energy from the hot gases resulting from the oxidation process

SMELLY, GASEOUS EFFLUENTS FROM MEAT AND FISH TREATMENT PROCESSES

Flow control valves in each rectangular container direct contaminated and treated air from one canister to another in a continuous, controlled cycle

Combustion chamber interconnecting the three vertical containers

Gas-fueled burner at top keeps combustion chamber temperatures at up to 950°C Three large vertical rectangular containers filled with a special ceramic material



Cyclone for dealing with particulates in the incoming vapor flow

Filter for dealing with particulates in the incoming air flow

>98% ODOR REDUCTION IN OUTGOING AIR

We reserve the right to alter the specifications at any time without prior notice.



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PROCESS IS POTENTIAL

HEAD OFFICE

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