

BIOFILTER EXHAUST AIR TREATMENT

AVE Tierkörperverwertungs GmbH – Regau, Austria

Animal Carcass Disposer





Biofilter exhaust air treatment, Animal Carcass Disposer

One of Europe's largest and most modern closed biofilter systems for an animal carcass disposer was built in Regau/Upper Austria. The installation was commissioned by the AVE Tierkörperverwertungs GmbH. Thanks to the new biofilter exhaust air cleaning systems, the neighbourhood no longer is subjected to annoying smells and the working conditions for employees have been

considerably improved. The cleaning system removes dust and odorants from up to 240.000m³ exhaust air per hour. The main item is made up of 32 biofilters in closed container construction. After pre-separation of ammonia and larger-sized pollutants in a two-stage chemical scrubber, these biofilters take care of the remaining substances through biodegradation in an efficient and environmental-

ly-friendly manner. The new exhaust air system enhances air throughput six fold and solved the existing problem with annoying smells and heat. The sophisticated exhaust air management, which helps capture intensive emissions right where these are produced thanks to the coupling of many odorant emitters in one area, merits special mention.

EXHAUST AIR DATA	
Controllable exhaust air amount	25.000 to 240.000m ³ /h
Exhaust air temperature at exhaust points	+ 5°C to + 60°C
Number of exhaust points	~ 150
Length of the exhaust-air-lines	~ 1.500m
BIOFILTER	
Number of biofilter containers	32 units
Design	self-contained, pressure-tight
Extras	own BMS (system control) with SIMATIC S7 (SIEMENS)
Degree of efficiency	96%
MACHINERY	
Number of installed ventilators	exhaust air: 8 units incoming air: 3 units
Two-stage chemical vapour scrubber made of stainless steel	4 units
Chemical dosing station for water treatment plant	4 units
Overall electrical power demand	570kW

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