

## BIOFILTER EXHAUST AIR TREATMENT

Stipits Entsorgungs GmbH – Rechnitz, Austria

Biogas Industry





## Biofilter exhaust air treatment, Biogas Industry

The family business "Stipits Entsorgungs-GmbH" operates from its headquarters in Rechnitz/Burgenland. It is based close to a waste disposal facility which is as big as a biogas facility. To reduce offensive smells and pollutant-emissions a complex multi-process air cleaning system was constructed. This installation prevents the occurrence of disturbing odors resulting from the pre-treatment of substrates from becoming an annoyance to

the neighbourhood and considerably improves the working conditions for employees at the Stipits Company. Two independent working processes, which can be combined if necessary, treat the polluted exhaust gas and the strong smelling exhaust air from engine rooms and processing rooms. This chemical and physical treatment enables the cleaning of exhaust gas under well-defined conditions and it is lead under adherence to strict emission-

specifications as combustion air into the engines of the co-generation unit. The exhaust air cleaning system removes offensive smells from exhaust air of biogenous waste, for example fat, leftovers, manure or renewable resources. After the pre-separation of selected pollutants in an air washer, the microbiological decomposition of the remaining odorants is processed in the biofilter in an efficient and environment-friendly way.

EXHAUST AIR DATA	
Controllable exhaust air amount	3.000m³/h
Exhaust air temperature at exhaust points	+5 °C to +35 °C
Number of exhaust points	10
BIOFILTER	
Number of biofilter containers	1 unit
Design	self-contained, pressure-tight
Extras	moisturing regulation
Efficiency	95%
MACHINERY	
Radial exhaust air ventilator	2 units, multistage
Vapor scrubber	continuous variable adjustable
Chemical air scrubber	including required installations

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