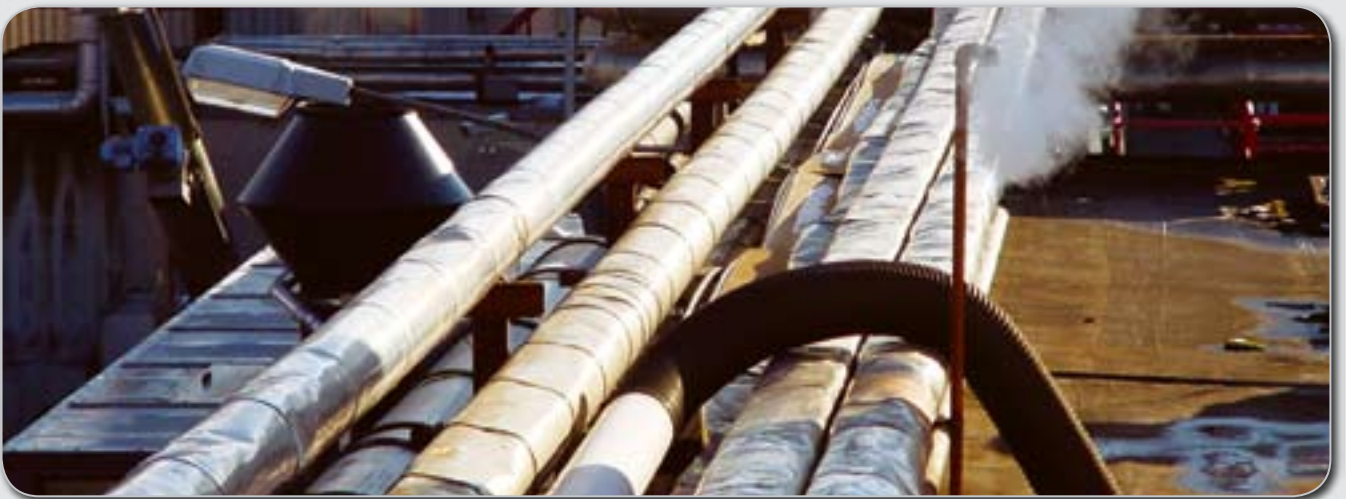


# BIOFILTER EXHAUST AIR TREATMENT

Saubermacher AG – Trofaiach, Austria

## Waste Management





## Biofilter exhaust air treatment, Waste Manage- ment

A self-contained, pressure-tight biofilter system is installed in one of the region's largest waste management company in Trofaiach, Styria. The plant is operated by the Saubermacher AG anciently Rumpold AG, which has persistently developed new lines of business involving tank cleaning and waste oil collection as well as oil alarm services and offers nearly all

possible waste-management services available today. The exhaust air volume stream amounts to a maximum of 14.000 m<sup>3</sup>/h, approximately 1.800 m<sup>3</sup>/h of which are derived from the company's own industrial sewage treatment plant, and is pre-cleaned using two chemical exhaust air scrubbers. The exhaust air is then conducted into a vapour scrubber and the ac-

tual biofilter, which has been designed as a heat-insulated container. The pollutants are removed from the stream of air through sorption, deposited on the biofilm of the organic material and converted into odourless substances, such as carbon dioxide, water, oxygen and nitrogen, by the micro-organisms in the biomass.

EXHAUST AIR DATA	
Controllable exhaust air amount	up to 15.000 m <sup>3</sup> /h
Exhaust air temperature at exhaust points	+ 5 °C to + 30 °C
Number of exhaust points	24
BIOFILTER	
Number of biofilter containers	2 units
Design	self-contained, pressure-tight
Extras	time- and demand optimized
MACHINERY	
Exhaust air ventilator	infinitely variable via frequency converter
Vapour scrubber	one stage

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