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INSPIRED BY NATURE

SABA, THE HIGH-EFFICIENCY BIO SCRUBBER

The innovative, patented SABA process is based on purely biological processes. This means that organic pollutants, such as those occurring in dryer and press exhaust gases in the wood based panel industry, are cleaned with water, air and high-efficiency microorganisms. A clean solution for a clean environment.

THE BENEFITS

High degree of cleaning

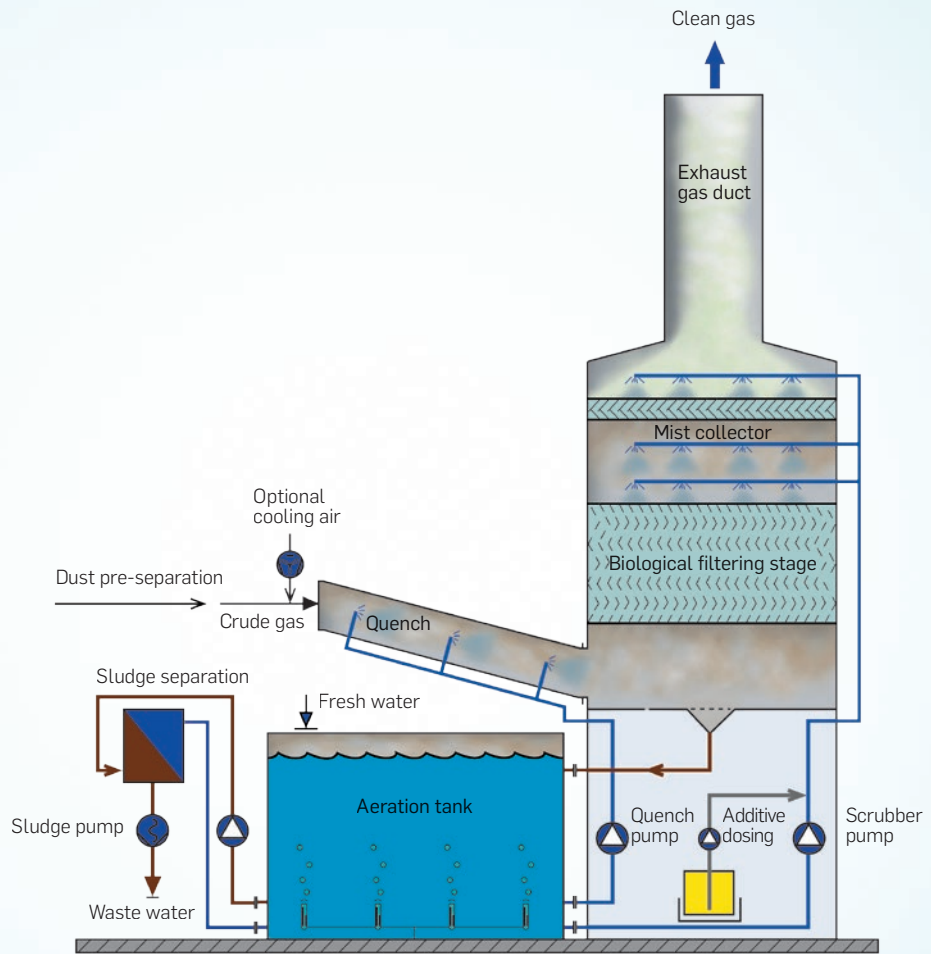
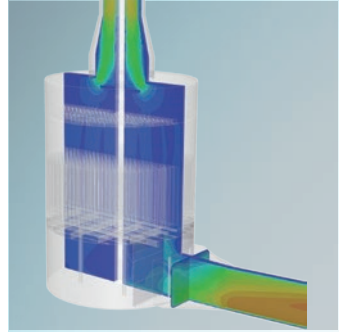
- Excellent separation of organic materials such as formaldehyde, methanol or phenol
- Microorganisms guarantee optimum efficiency
- Dust pre-cleaning of emissions, depending on requirements
- Reliably fulfils international clean-air directives (IPPC, MACT and more)

Low operating costs

- Use of biological materials
- Consistently low plant pressure loss
- Minimum maintenance and cleaning expenditure

Excellent availability

- Good adaptability of the microorganisms
- The perfectly designed biological filter and the highly efficient flushing equipment guarantee the highest operational safety
- Ease of operation and high-quality design of machines and components



HOW SABA WORKS

1. Dust pre-separation

In order to take the load off the SABA system and to ensure compliance with limit values, there are various systems available for dust pre-separation of emissions. The following systems are preferred by Scheuch for this use:

- Press scrubber (SAP)
- Wet electrostatic precipitator (SENA)
- Wet cyclone (SAWA)

Using these wet systems, the emissions are saturated with water, bringing them down to the cooling limit temperature. This guarantees a high degree of separation and safety.

2. Cooling air

The optional addition of fresh air provides the optimum temperature for the growth of the microorganisms.

3. Biological exhaust gas cleaning

In the SABA, pollutants such as formaldehyde, methanol or phenol are transferred from the gaseous phase into biologically activated cleaning water.

4. Biological water treatment

In the aeration tank, microorganisms completely break down the separated pollutants. The cleaned scrubbing water flows back into circulation in order to save resources.

Waste materials are removed by using special separation devices.



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