

SABA

BIOSCRUBBER FOR EFFICIENT DRYER AND PRESS EXHAUST GAS CLEANING



The SABA system is a patented biological scrubber for the abatement of organic pollutants from emissions at wood product production plants. Typical applications are wood fibre dryer exhausts and press exhausts from medium density fiberboard production plants.

The Advantages:

High Removal Efficiency:

- Very good removal efficiency of health threatening organic compounds such as formaldehyde, methanol and phenol
- Variable removal of particulate matter through quenching
- Meets removal efficiency requirements of most common regulations such as TA-Luft and the US EPA PCWP MACT regulation

Low Operating Costs:

- Biological decomposition of contaminants without the use of costly chemicals
- Very low system pressure loss resulting in low fan energy consumption
- Low maintenance and cleaning costs

Good availability:

- Adaptive bacteria in the process water
- Ideal design of trickling filter media and quenching system gives high reliability
- Easy to operate equipment and components



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Pre-Separation

In the event of high particulate matter loading, the SABA bioscrubber can be equipped with a pre-separation system. This enhances the removal efficiency and protects the bioscrubber media from build-up of particulate matter. Pre-Separation systems can be:

- Press Exhaust Scrubber (SAP)
- Wet Electrostatic Precipitators (SENA)
- Wet Cyclones
- Low Pressure Venturi

In these wet systems, the exhaust gas is saturated with water and cooled to the cooling limit temperature.

Cooling Air

After pre-separation, ambient air can be added to the exhaust gas stream in order to maintain optimum operating temperature for the microorganisms.

Biological Scrubbing

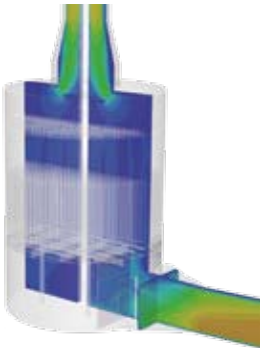
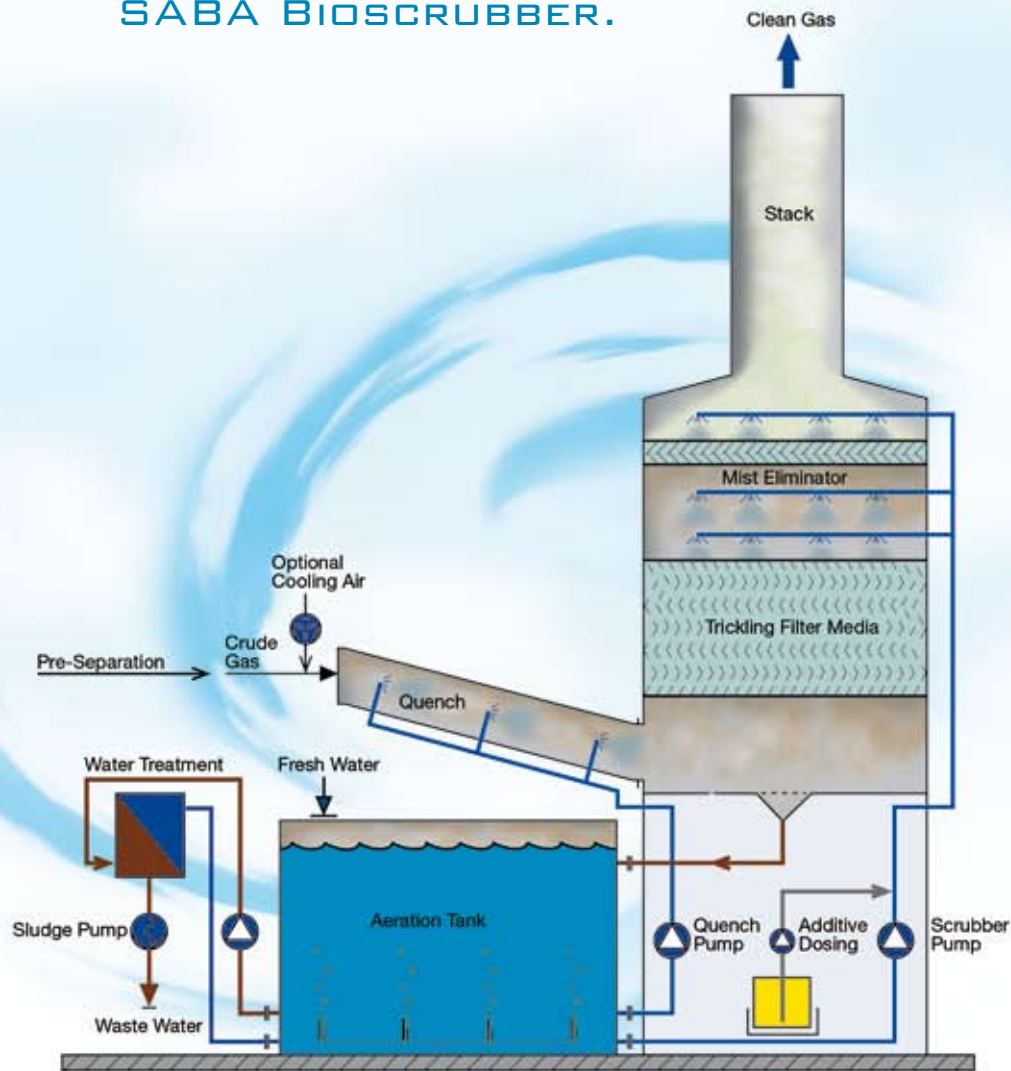
The trickling filter media allows the transfer of organic pollutants such as formaldehyde, methanol or phenol from the gas stream into the scrubber water.

Biological Water Treatment

The separated pollutants are completely decomposed by the bacteria in the aeration tank and the cleaned process water is circulated back into the SABA scrubbing system.

The biomass level is controlled by using a solids discharge system.

IDEALLY EXHAUST GASES FROM DRYERS AND PRESS ENCLOSURES ARE TREATED IN THE SABA BIOSCRUBBER.



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