

SAP/ESAP/BIOSAP

EXTRACTION AND EXHAUST AIR CLEANING PLANTS
FOR PRESS EXHAUST GASES



The advantages:

- **Good extraction of exhaust air using specially designed hoods**
- **Efficient separation of chips, fibers or strains**
- **Minimisation of deposits in the extraction system**

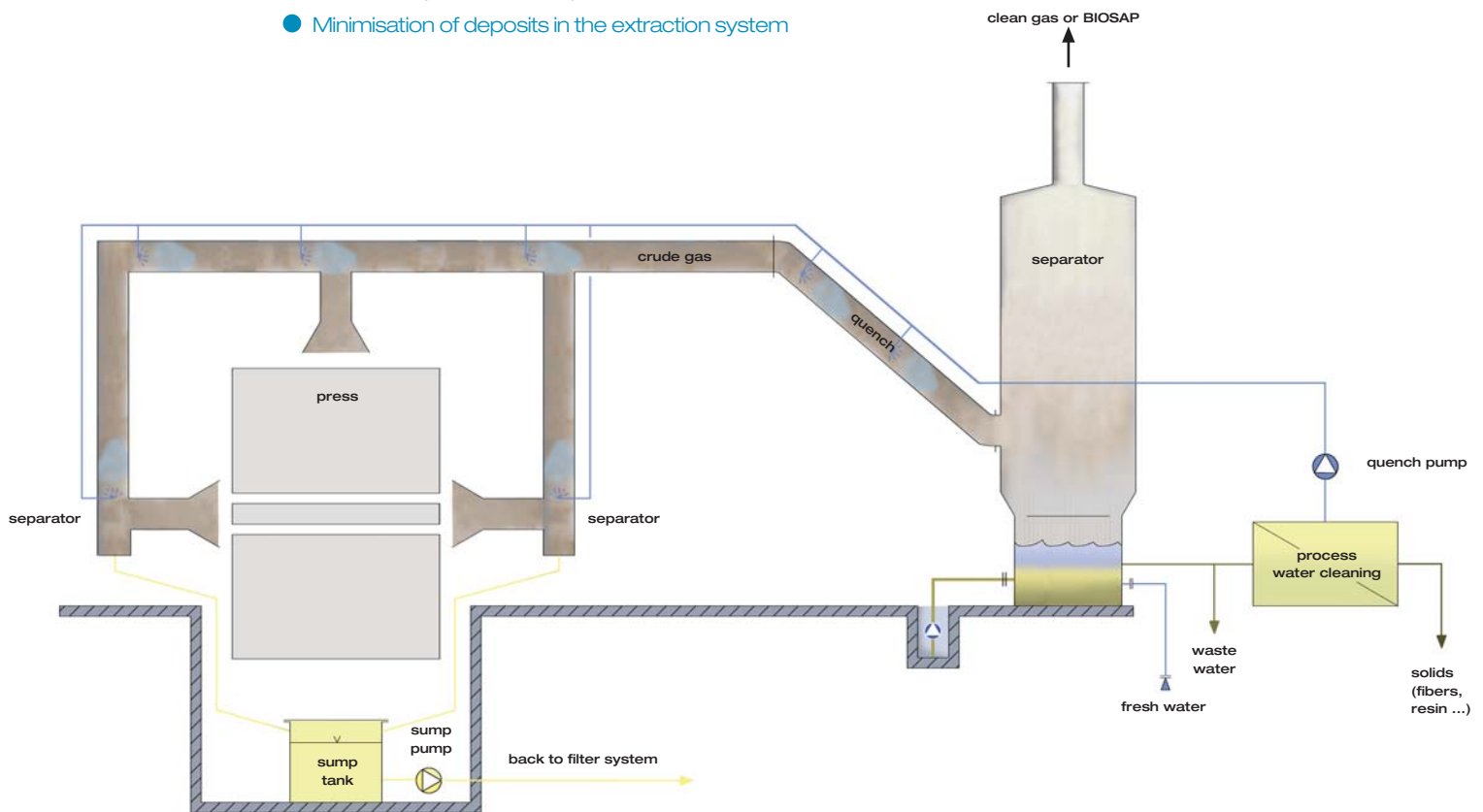
The various systems and the use of modular construction ensure a tailor-made and individualised solution to the problems of extraction and exhaust gas cleaning in continuous presses and intermittent multi-daylight presses.

SAP

PRESS EXTRACTION SYSTEM WITH WET SEPARATION

The advantages

- Good extraction of exhaust air using specially designed hoods
- Efficient separation of chips, fibers or strains
- Minimisation of deposits in the extraction system



THE PROCESS

Pre-moistening

The injection of circulating water directly at the extraction point minimises the creation of deposits in the pipe system and keeps the plant clean.

Wet scrubber

Solid materials such as paraffin and dust are separated here in the pipe system.

Separator

A separator designed especially for this purpose efficiently removes entrained droplets of liquid and solids.

Process water treatment

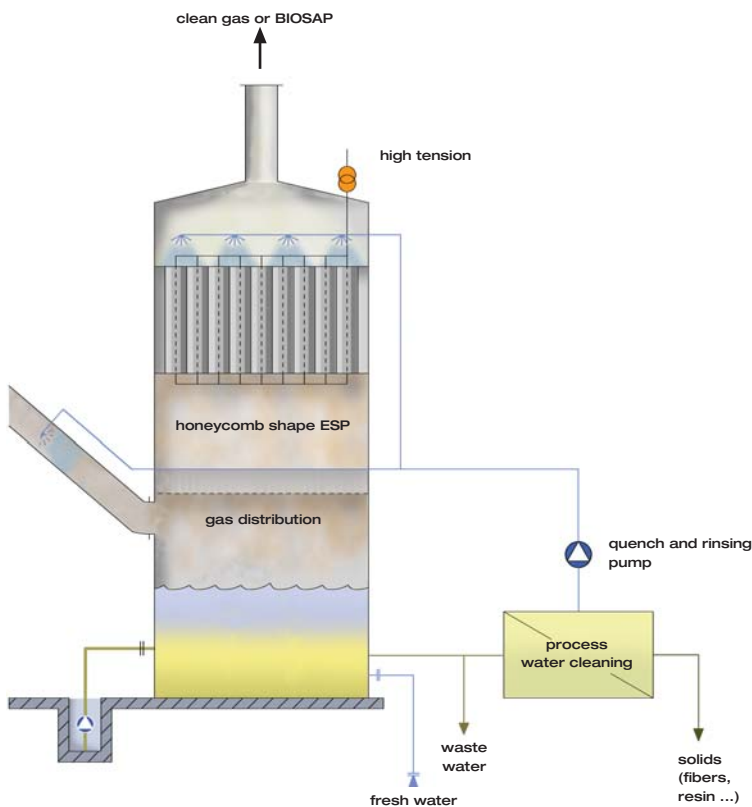
Specially developed machinery carries out the separation and discharge of solids.

ESAP

SAP WITH A WET ELECTROSTATIC PRECIPITATOR STAGE

Adds additional advantages to the SAP system

- Excellent aerosol separation (oils, paraffin, blue haze)
- Good separation of fine dusts

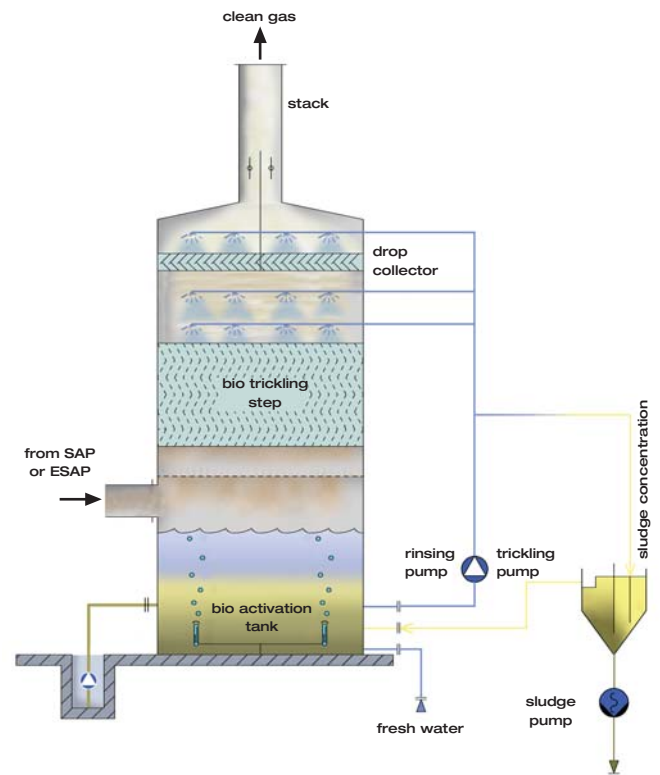


BIOSAP

SAP OR ESAP WITH DOWNSTREAM BIO-SCRUBBER

Adds additional advantages to the SAP or ESAP systems

- Excellent filtration of health-threatening organic contents such as formaldehyde, methanol or phenol
- Environmentally friendly because of complete biological decomposition of these substances



THE PROCESS

Scrubber and gas distribution

An integrated scrubber is located just before the entrance to the wet electrostatic precipitator. This provides optimal gas scrubbing and ensures a uniform distribution of the flow in the electrostatic precipitator.

Wet electrostatic precipitator

The separation of ultra-fine dusts and aerosols (blue haze) takes place in the honeycomb-type wet electrostatic precipitator.

Biological cleaning

The heart of the unit is the biological gas scrubber. A thin layer of optimally adapted microorganisms is located directly on the trickle filter. For these microorganisms, health-threatening organic substances such as formaldehyde, methanol or phenol are essential nutrients. Most of these contaminants are decomposed directly on the trickle filter.

Biological water treatment

The activation process provides for the reliable conversion of the remaining contaminants and creates optimal living conditions for the microorganisms. The solid waste household is regulated using separate filtration equipment.

UTILISE SYNERGIES

Scheuch has at its disposal a variety of processes and process combinations for the pre- and final cleaning of exhaust gases generated by dryer and press equipment. This diversity of systems, combined with a carefully thought out concept for cleaning exhaust gases, makes it possible to achieve synergistic effects throughout an entire plant.

The use of a pilot- or test plant to certify the suitability of a plant and its attainable emission

levels substantially simplifies the process while also providing security with respect to the choice of system. Mobile test plants make it possible to compare combinations of individual process steps and prepare parametric studies. As a result, we can offer our customers the best solution for special applications with respect to investment and operating costs, as well as maintenance requirements and plant availability.



scheuch
TECHNOLOGY FOR CLEAN AIR

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