

KVK-FUME EXTRACTION PLANTS



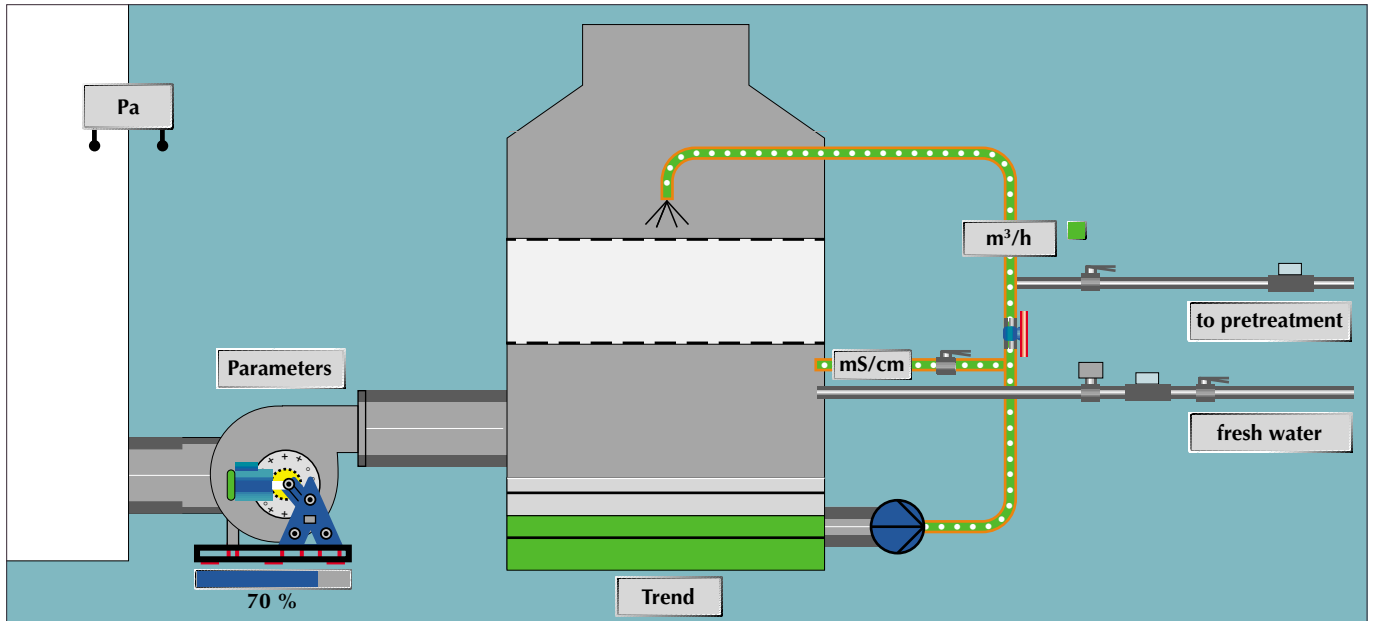
Advantages:

- Operation without wastewater
- Savings on fresh acid through return of scrubbed-out acid into the process
- No additional chemicals
- Exact determination of acid concentration in the scrubbing liquid through measurement of electrical conductivity
- Automatic level control and fresh water feed
- Use of high-quality corrosion-resistant radial fans and pumps

- Complete plant control system and visualization (soft PLC)

KVK fume extraction for use in encapsulated pre-treatment plants and on lateral tank walls for:

- hot-dip galvanizing plants
- pipe pickling plants
- stainless steel pickling plants



KVK fume extraction plants include:

- exhaust air scrubber
 - fan
 - pipework
 - exhaust and inlet air units
 - chimney
 - level controllers for returning water into the scrubbing circuit
- all components made of corrosion – resistant material guaranteed by 25 years of experience.

Scrubbing the exhaust air prevents the release of aggressive and harmful vapors into the environment.

Vapors and gases are absorbed in the scrubbing liquid and returned to the circuit.

Effective scrubbing and guaranteed compliance with emission limits can only be achieved through an individually designed fume extraction plant optimized on the particular application.



The most important basis for calculations are the determination of the exhaust air volume and the dependence of the flue gas burden on the operating conditions in the pre-treatment plant. All these calculations are performed by program modules developed by KÖRNER.



KVK fume extraction plants can be used not only in encapsulated pre-treatment plants but also for lateral suction channels on pickling tanks. KÖRNER supplies a range of different plants designed for HCl, H₂SO₄, HF, HNO₃ and mixed acids.