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PRODUCTS OR MACHINERY

Gas scrubbers for the glass industry

During the acid polishing of crystal glass, a mixture of sulphuric acid (H_2SO_4), water (H_2O), hydrogen fluoride (HF) and hexafluorosilicic acid (H_2SiF_6) is used. When the surface layer of the crystal glass comes off, silicon tetrafluoride (SiF_4), is formed which, aside from the hydrogen fluoride, evaporates at bath temperatures of $55^\circ C$.

In order to meet the maximum working-site concentration limit values and the limit values of the TA air, extraction- and exhaust gas cleaning systems must be employed.

VSS-Umwelttechnik recommends multistage systems in which the number of gas scrubbing stages is adapted to the hexafluorosilicic acid concentration in the waste gas. The first stages run with an excess of acid in order to avoid the formation of gelatinous silicic acid. To ensure that the excess acid is guaranteed at any time and on even the most diverse crystal surfaces, the acid concentration is continuously supervised. As the last stage, a final HF cleaning is advisable using a slightly acid scrubbing solution.

Company Profile of **VSS-Umwelttechnik GmbH**

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