

■ ■ ■ FRIDURIT® environmental technology

For protection and longevity.

BorsodChem Zrt., HU-3700 Kazincbarcika, Hungary

Production and processing of plastic raw materials, isocyanate production

Area of application: Absorption of phosgene-loaded air

Date of construction: August 2000



The FRIDURIT fume scrubber in this application is used to clean phosgene-loaded air from 4 fume hoods in a production laboratory plant. The scrubbers work with alkalized scrubbing liquid in order to increase the absorption efficiency of the separation system. The replacement of the scrubbing liquid is controlled by a pH-measurement system.

FRIDURIT® Advantages.

- Helps to protect the building substance and the environment.
- Treatment of exhaust air and waste water directly at the source of emission.
- Easy to operate and convenient.
- Operation, service and technical support provided by FRIDURIT service partners.

FRIATEC AG

Ceramics Division

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Swiss Federal Institute of Technology Zurich, Switzerland

Research in chemical science

Application: Absorption of acids

The FRIDURIT fume scrubber C54 was modified with a chemical resistant pump to enable a quick retrofitting of the whole fume cupboard. The electrical control of scrubber functions and fume cupboard lighting can be easily controlled by a special control panel integrated in the fume cupboard.



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NN Europe, Kugelfertigung Eltmann, Germany

Manufacturing of balls for bearings

Area of application: Absorption of hydrochloric acid from acid cleaning process

Date of construction: October 2008



Replacement of a fume scrubber assembled by KT (more than 30 years ago) with a FRIDURIT fume scrubber C180.



The PVC parts of the air ventilation system leading the air into the scrubber were also replaced by modern PP ones.



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SGS Nederland B.V., The Netherlands

The SGS network comprises over 1000 offices and laboratories and more than 50 000 employees around the world.

Area of Application:

Chemical analysis of raw materials (copper, iron, etc.) with hot acids in high concentration. The exhausted aggressive air of this process is washed in a FRIDURIT fume scrubber C180. The high efficiency of the scrubber helps to avoid damages caused to environment and buildings.

„A reliable after sales service is an important issue for us. The scrubber has been working reliably for more than 3 years.“

*Peter de Zeeuw, Laboratory manager
SGS Spijkenisse*



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VALEO Wischersysteme GmbH, Bietigheim Bissingen, Germany

Manufacturer of wiper systems for automotive

Area of application: Absorption of hydrochloric acid from an acid cleaning process

The FRIDURIT Fume Scrubber C20 was modified to absorb salt-loaded air from a long-time quality test with road salt:

The following parts were adapted:

- fully automatic control of scrubber functions (not standard on the C20)
- integrated conductivity probe
- modification of accessibility of separation system



The most important modification was the reconstruction of the integrated fan. It has to be easy to clean and resistant against abrasive salt crusts.

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