

Pioneering and Energy Efficient ACAT Steam and Boiler Water Treatment

Paul Hartmann AG, a company with a glorious past, can continue to look to the future with confidence with the ACAT treatment program for the conditioning of boiler water systems. By using a procedure that does not leave deposits, ACAT was able to achieve considerable savings in energy and maintenance costs.



It was in 1883, when Her Majesty, the Empress Auguste, was given the “golden medal” the supreme and only award for dressings to the oldest German producer of dressings Paul Hartmann, Heidenheim, Württemberg. Another twelve gold medals were awarded later. Since 1986, the Austrian site of the Paul Hartmann AG Grimmenstein is in Lower Austria, about 70 kilometres south to Vienna.

The company produces inserts for hospital beds and cellulose waddings in different sizes and as rolls, hygiene products as well as cleaning crepe paper made of 100% recycled paper for commercial and industrial use.

In a clean room cellulose swabs and compresses are produced. Today, the company employs 65 people.

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The Paul Hartmann AG operates two fire tube boilers. The steam produced is used as a heat carrier (drying) and for space heating. In downstream separators the steam is removed and further used to heat the hood dryers.



Some years ago the boiler house was completely refitted, but boiler number 1 remained

in continuous operation. In order to achieve safe and economical operation of the boiler system the application of a modern boiler water conditioning was planned.

For boiler water treatment chemicals were always used, but there were recurrent problems caused by deposits and corrosion.

At that time, ACAT expanded the "Industrial Chemicals" division and therefore we were able to offer specialty chemicals for up-to-date, tailor-made treatment programmes for cooling water and boiler water systems.

Because of many years of good business relationship with ACAT, the company management of Paul Hartmann AG decided to entrust us with this task.

At the beginning of 2004, the operation was converted to a coating-free procedure with products from the company Innovac.

After about four weeks of chemical cleaning the continuous treatment was started. No service interruption was necessary during that period.

The conditioning covers the following areas:

- Adjustment of the required pH value in the feed water;
- Stabilisation and dispersion of the boiler water
- Alkalinisation of the boiler water
- Absorption of residual oxygen
- Alkalinisation of the steam without ammonia or hydrazine.

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Besides product quality, technical service is an essential part for the successful treatment. Due to our regular technical service, we are able to respond rapidly and in a targeted manner to problems, ensuring smooth operation with a constant good heat transfer.

The inspections of the boilers and the evaluation of the statistics showed that our coating-free procedure led to significant savings in energy and maintenance costs.

Also the steam boiler number two running as a backup boiler in stand-by mode is well protected by our treatment program. Operation can be started whenever needed.

We recommended keeping this kettle permanently at temperature without additional expenditure of energy. This results in additional savings.

The ACAT - field service engineers strive to support our customers in technical and economic terms, and to offer them the know-how they expect from us for years.

