

Aqua Unique  
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CD/iml

Conc.: Magnetic water treatment.

At BASF Vitamin Factory A/S in Grenå, Denmark we manufacture ascorbic acid and B-vitamins.

Our plant includes a 5000 litres hot water tank equipped with a 4 m<sup>2</sup> steam-heated surface, and a Grundfos CRN 30-40 pump. The water tank receives city water at 40° C, which is then heated to 60° C.

A number of years ago we installed a flushing system, under the belief, that this would not cause unforeseen problems. However, after only a short period, the pressure in the flushing system fell. The cause of this soon became apparent - lime-scale deposits in the pump!

This problem existed for several years. When the pressure became too low, we simply installed a new pump - an event that occurred approximately 4 times a year!

In 1989 a lecture was held at the factory concerning magnetic water treatment.

Initially we found it difficult to believe that we could solve the limescale problem, however we decided to experiment with this system. We installed a unit in the spring of 1990, and installed a new limescale free pump at the same time.

In the autumn of 1991, we again experienced pressure problems in the hot water flushing system. On this occasion, the pump was blocked with limescale deposits which had been loosened and fallen from the inside walls of the hot water tank.

200 litres of limescale were removed from the tank!

Since the installation of the magnetic water treatment system in May 1990, we have only changed the pump once, and this was due to loosened limescale deposits.

1. In 1989 our pump maintenance cost us USD 2,700.-
2. In 1990 - USD 850.- (where USD 360.- was the cost of the magnetic system).
3. In 1991 - USD 850.- (due to loosened limescale in the pump).
4. In 1992 - USD 0.-

To conclude, I can also add that an additional department in the factory has installed a magnetic system and produced equally good results.

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