

CASE HISTORY

SEMICONDUCTOR
SOLAR
PHARMA
POWER GENERATION
FOOD & BEVERAGE
PULP AND PAPER
CHEMICAL
OIL AND GAS
MINING
AEROSPACE AND TRANSPORT
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Toveko Filters

Perstorp - Cooling Water Filtration



When the Wendt family founded Perstorp some 150 years ago its main product was vinegar essence. Today it is an internationally known company producing a wide range of chemicals. The company atmosphere is a very innovative and well known for the number of patents they apply for.



The Polyon Factory

Perstorp's Polyon factory produces paints for the car industry. Among its regular customers are BMW, Volkswagen, Mercedes, Saab and Volvo. Perstorp's environmentally friendly metallic lacquer has been particularly well received by the car industry.

As is typically the case in chemicals manufacturing, certain process steps are exothermic and very large cooling systems are required. Most of the cooling water re-cycled, with a fresh water make-up system.

A method for cleaning the cooling water (which is handled in a traditional laminar sheet design) was proposed to Perstorp. The original cleaning system was based upon a standard pressure sand filter with automatic backwashing. In this application such filters often don't work very well, typical problems being break through, shortcuts and disturbances related to filter backwashing sequences. Consequently, Perstorp found the cooling water quality unacceptable and had to shut the whole system down for cleaning and regeneration several times a year. In turn, this meant stopping production, which was very expensive.



Cooling Tower

The cooling system was a real “pain in the ass”, said Mauno Into, Production Manager, Perstorp Polyon Factory. Since investing in a Toveko CX filter 2 years ago we have not had any problems. During this period we have never had any production break down, something that a Production Manager can be particularly happy about, says Mauno.

The main stream flows at over 100 m³/h and a side stream has been taken from this and flows through a model S-150 TOVEKO filter. Following first commissioning, it took the TOVEKO filter a while to clean up the whole cooling circuit, but now the entire system runs at a much improved water quality. During the summer period the filter is subjected to disinfection when needed. Other than that there are no chemicals added to the system.



Toveko CX type S-150 in operation at Perstorp Polyon Factory

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