

COOLING TOWERS

Narex Ždánice

Ždánice, Czech Republic · FED150

Overview

Narex needed clean cooling water for its quenching furnaces. An FED150 automatic filter now handles the full circuit flow at 150 micron — and let the site retire a large sand filter altogether.



The Results

100%

Large cooling-circuit sand filter eliminated

Lower

Backwash water consumption vs the decommissioned sand filter

Reduced

Maintenance workload on cooling-circuit components

Continuous

Full-flow filtration without process interruption

The Challenge

Narex Ždánice manufactures taps for customers worldwide. The quenching furnaces at the plant depend on a reliable cooling circuit, and that circuit depends on clean water.

The circuit is cooled by an open cooling tower, which pulls in a steady load of airborne debris — heaviest from spring through to autumn. Those solids clog the circuit and foul the components downstream.

Before the Filtaworx filter, the site ran a large sand filter to deal with the load. It worked, but it consumed a lot of backwash water doing it.

The Solution

A Filtaworx FED150 automatic self-cleaning screen filter with a 150 micron screen and electric drive, installed on the cooling circuit.

The filter removes every particle larger than 150 micron that the open tower introduces, and it does it on the full circuit flow rather than a side stream. Backwash runs on differential pressure with a time-based fallback.

With the full flow filtered to 150 micron, the site was able to decommission the large sand filter entirely and replace it with a small side-stream filter that polishes out the very fine particles.

THE FILTER IN THIS INSTALLATION

Filtaworx FED150

DN 150 • Electric drive

filtaworx.com/products/automatic-filters/fed150



TALK TO US

Have an application like this one?

Send us your flow rate, line pressure and what needs filtering out. We'll size it — and say so if we're not the right fit.

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