

Domestic hot water production in the ARA Region Biel AG

Background

With around 86,000 inhabitants in 12 affiliated municipalities, ARA Region Biel AG is the third-largest wastewater treatment plant of around 60 wastewater treatment plants in the canton of Berne. It treats around 20,000,000 m³ of wastewater annually and removes around 1,200 tons of residual materials.

Before the purified wastewater flows into the River Aare, it passes through several purification stages in 24-hour operation.

Process

After primary treatment, the wastewater from the ARA Biel region undergoes bioremediation and is then fed to the secondary clarifier. The medium is then passed through a **self-cleaning backwash filter from BOLLFILTER** and treated to produce process water.

Therefore BOLLFILTER

Based on all the technical process parameters, the BOLLFILTER experts at Matter Hydraulik have identified the aquaBoll® 6.18.3 in size 419 with DN200 flange connection as the most suitable filter for the ARA Biel region. The comprehensive **customizability** of the components used and the **high-quality parts** enable application solutions that lead to optimized plant operation in every configuration.

The aquaBoll® serves as the final mechanical treatment for the secondary clarification water to **remove particles** so that, for example, the **COD value** for the return to open waters **can be maintained**. The resulting process water is reused for various applications within the wastewater treatment plant.

Customer: ARA Region Biel AG

System: aquaBoll® size 419 DN200



Wastewater treatment plant



BOLLFILTER aquaBoll® 6.18.3