

Malting plant saves up to 90,000m³ of water per year¹

Water recycling by using Dilurit® BC S-System at Avangard Malz AG



1. Keywords

Dilurit® BC S-System, water reuse, recycling, water saving, sustainability, Value+, CSV, F&B industry.

2. Background

Avangard Malz AG uses around 450 m³ of water every day for its cleaning and swelling process. Due to the impending water shortage caused by falling levels, the company wanted to make its process more sustainable and make an ecological contribution.

3. System description

The barley is washed and is then in the germination process. The used water is drained with its microbiological load, treated biologically and chemically (FHM), and finally discharged into the receiving water.

4. Objectives

- Saving water
- Reuse water
- Reduce microbiology
- Ensure the quality of the product
- Ensure the quality of the process flow
- Operational safety

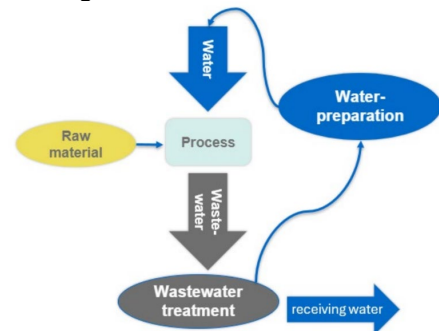
5. Action/Approach

The quality of the wastewater is professionally analyzed and treated by one of our cooperation partners in the biological wastewater network. Part of the wastewater flow is diverted after treatment. Active MCA of Dilurit® BC S-System is

dosed into this diverted water flow of 8-13 m³/h at approx. 0.5 - 3 ppm.

In this way, the water flow continuously disinfected.

The treated water is temporarily stored in a buffer tank. From there, it can be retrieved as required and used again as wash and source water.



6. Achievements

By strategically restructuring the water flows, up to 90,000 m³ of water can be saved per year, depending on the production cycle and capacity utilization. This can reduce wastewater costs by 50%.

At the same time, the quality of the malting raw material is not impaired. The production step of the washing and germination process runs unchanged.

7. Conclusions

- Up to 90,000m³ of water saved per year
- Discharged wastewater volumes reduced by 50%
- AOX value has not increased
- Met the discharge conditions
- Quality of the product and process unaffected

¹ Equivalent to approximately 23 million US gallons.

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