



EROX[®] O₂ removal - Case Study

Initial situation

For the new construction of a brewery, a system for the removal of oxygen should be installed as part of the overall water treatment. General selection criteria were:

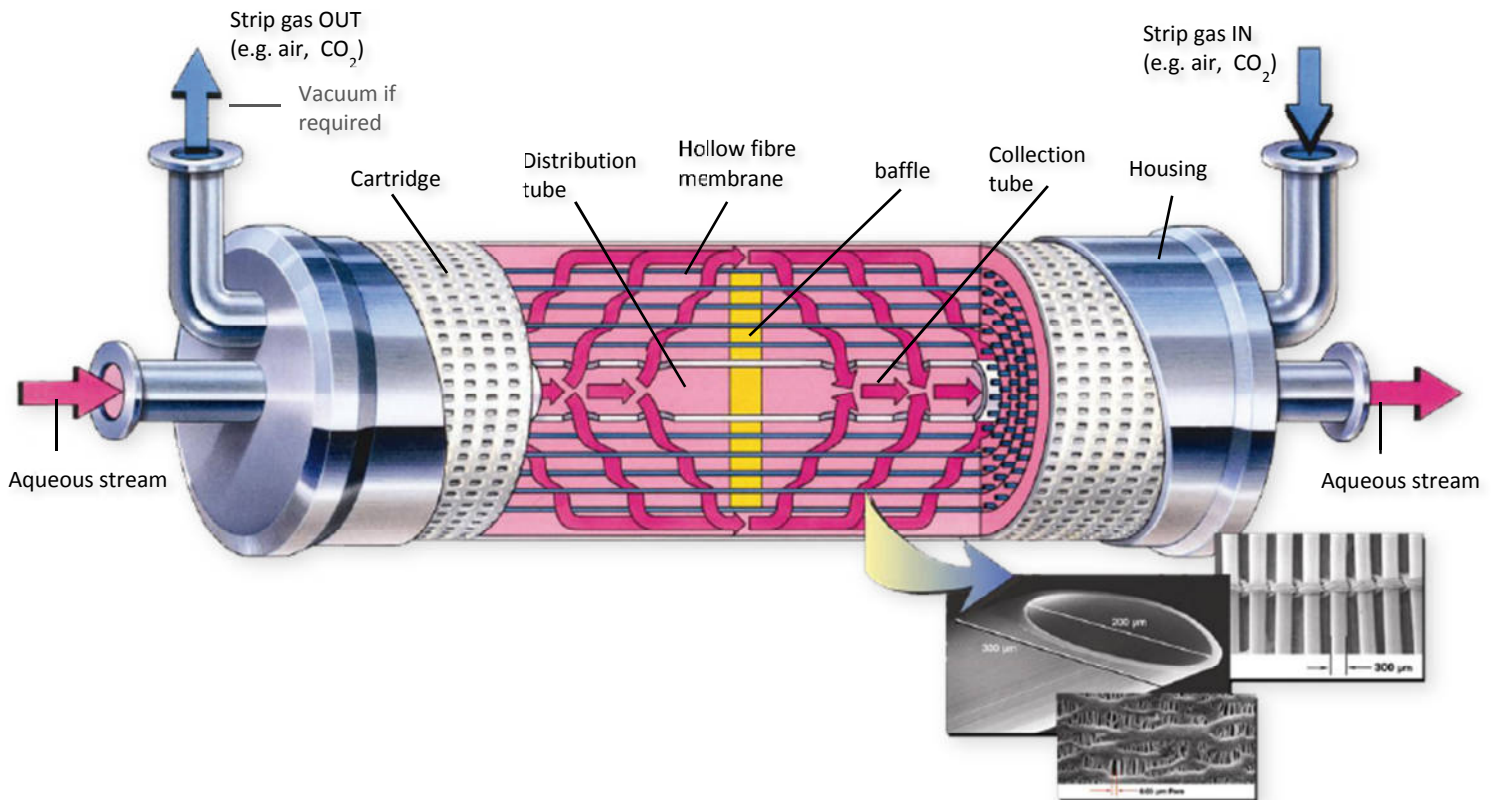
- Residual oxygen content <10 ppb
- Low cost of ownership
- Low investment costs
- Robust and reliable system

The EUWA solution

The brewery decided to use an EROX[®] membrane system whose characteristic benefits completely meet the selection criteria:

- O₂ content <10 ppb reliably achievable
- Low stripping gas consumption
- No heating of the water necessary
- Approx. 20% lower investment costs than comparable systems
- Simple operation
- Suitable for CIP

EROX[®] - O₂ removal



Practical experience

In practical use, the following key performance figures are reproducibly achieved:

Performance: 500 hL/h

O₂ content in the feed: about 8000 ppb

O₂ content in the outlet: <10 ppb

Stripping gas consumption (CO₂): 20 g/hL

Vacuum: 50 mm Hg

Water Chemical background

Every natural water contains oxygen, usually up to the saturation limit between 8-10 ppm. However, various process steps of the beverage production require water with minimal oxygen content. Qualitative disadvantages such as a lower shelf life or the oxidation of sensitive ingredients are avoided in this way.

THE WORLD OF WATER TREATMENT



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