ENGINEERING PROJECT

Ultrafiltration for water reuse in food processing

Biologically treated wastewater

Nominal capacity	UF membrane area	Permeate tank
10 m³/h	306 m²	5 m³

01

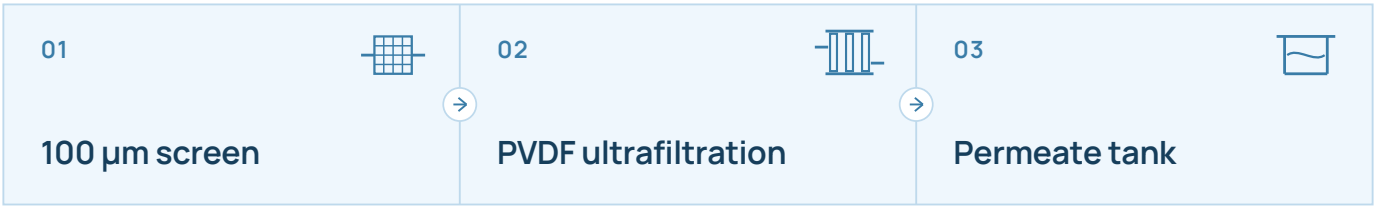
The challenge

The biologically treated effluent contains up to 14 mg/L of suspended solids. Removing the residual solids makes the water available for other uses around the plant.

02

The solution

A 100 µm self-cleaning screen protects six PVDF ultrafiltration modules. The modules operate in dead-end mode and deliver permeate to a service tank.

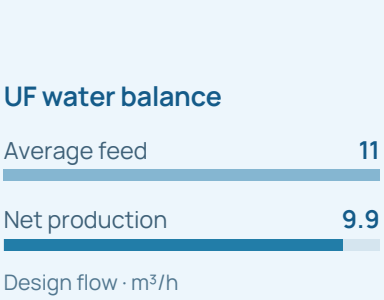


03 / PROCESS DESIGN

90% design recovery

Each cycle pairs 30 minutes of filtration with air scour, backwashing and rinsing. The net production figure accounts for the water used in backwashing.

- Irrigation
- Polymer make-up
- Animal housing washdown



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