ENGINEERING PROJECT

External MBR for bakery wastewater

Food plant wastewater retrofit

UF design capacity	Equalisation volume	Bioreactor volume
3 m³/h	~60 m³	~60 m³

01

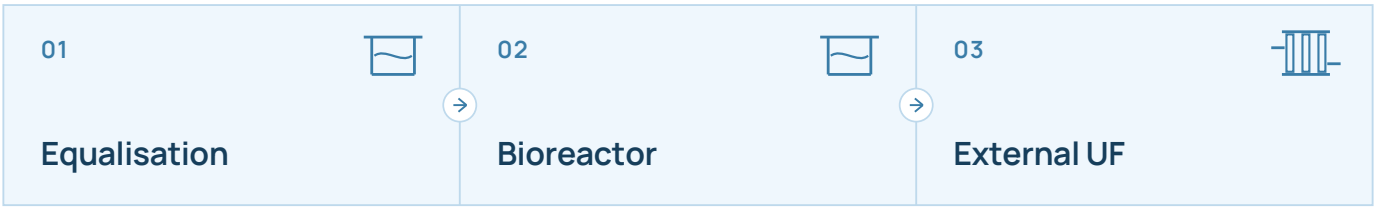
The challenge

Production washdowns deliver sharp peaks in organic load. The treatment plant needed to retain biomass and draw off treated water between settling cycles.

02

The solution

The first tank buffers the peaks. The second feeds an external UltraFlux™ loop that draws off permeate and returns the retained sludge to the reactor.



03 / PROCESS DESIGN

Two existing tanks

A separate nanobubble loop supplies oxygen to the bioreactor for the breakdown of soluble organic matter. It operates independently of permeate withdrawal.

- Automatic inlet filtration
- Oxygen-assisted aeration
- Permeate withdrawal without a settling stage

Process volumes

Equalisation
~60 m³

Bioreactor
~60 m³

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