

Case study MBR BioFlow

OEM Partner

Complete MBR waste water treatment plant from food production built by WEHRLE Umwelt GmbH in Germany.

UF-process

The UF system split biomass from a bioreactor process (MBR) into a clear permeate stream and a concentrate back to the bioreactor.

Pretreatment: Flotation
Application: Biomass separation
Post treatment: UV



Berghof HyperFlux products

UF configuration

UF Membranes/ Modules

Module program	HyperFlux I8
Membrane type	66.03
Membrane material	PVDF
Membrane diameter	8 mm
Cut off	30 nm
Module type	MO 103G 66.03 I8
Membrane area	40 m ²

UF design

Number of trains	2
Modules per train	6
Total membrane area	480 m ²
Permeate flow rate	50 - 70 m ³ /h
Temperature	33 °C
Permeate flux	110 - 150 l/m ² .h
Velocity	3.5 m/s

UF analysis

Feed:

COD	750 mg/l
MLSS	15 g/l

Permeate

COD	15-20 mg/l
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