

Case study MBR BioAir DS

OEM Partner

Complete MBR waste water treatment plant from dairy production built by Paques in the Netherlands.

UF-process

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

Application: Biomass separation

UF configuration

UF Membranes/ Modules

Module program	HyperFlux I8LE
Membrane type	66.03
Membrane material	PVDF
Membrane diameter	8 mm
Cut off	30 nm
Module type	MO 104G 66.03 I8LE XL
Membrane area	53.4 m ²

UF design

Number of trains	1
Modules per train	6
Total membrane area	320.4 m ²
Permeate flow rate	15 m ³ /h
Temperature	30 °C
Permeate flux	30 – 50 l/m ² .h
Velocity water	0.2 m/s
Velocity air	0.03 m/s
Energy consumption	0.2 – 0.5 kWh/m ³

UF analysis

Feed:

COD	1000 - 2000 mg/l
MLSS	12 - 15 g/l
TKN	110 – 140 mg/l

Permeate

COD	<50 mg/l
TKN	< 5 mg/l



Berghof HyperFlux products

