

Case study MBR BioPulse



OEM Partner

Complete MBR waste water treatment plant from food production built by Aquabio in UK.

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



Berghof HyperFlux products

UF configuration

UF Membranes/ Modules

Module program	HyperFlux I8LE
Membrane type	66.03 I8LE
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

UF concept	Aquabio AMBR LE™
Number of trains	4
Modules per train	5
Total membrane area	1068 m ²
Permeate flow rate	60 m ³ /h
Temperature	30 °C
Permeate flux	40 - 60 l/m ² .h
Velocity	1.8 - 3 m/s
Energy consumption	0.35 – 0.6 kWh/m ³



UF analysis

Feed:

COD	742 mg/l
MLSS	8 g/l

Permeate

COD	16 mg/l
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