Case study MBR BioFlow

OEM Partner

Complete waste water treatment plant built by TriHigh China.

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
Waste water from dying textile

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	MO83G 66.03 I8
Membrane area	27,2 m2

UF design

Loops	2
Modules/Loop	12
Total membrane area	326 m2
Velocity	4 m/s
Permate flow rate	750 m3/d
Temperature	30 C
Permeate flux	100 l/hm2
Working pressure	5,5 bar

Feed analysis

MLSS	15-20 g/l
COD	1000 – 2000 ppm

Permeate analysis

COD	< 300 ppm

UF unit

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Case study MBR BioFlow

OEM Partner

Complete waste water treatment plant built by Waterleau Belgium.

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 waste water from laundry

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	MO83G 66.03 I8
Membrane area	27,2 m2

UF design

Loops	1
Modules/Loop	6
Total membrane area	163 m2
Velocity	4 m/s
Permate flow rate	15 m3/h
Temperature	30 C
Permeate flux	92 l/hm2
Working pressure	5,5 bar

UF unit

UF analysis

Feed:

COD	4.800 mg/l
MLSS	15-20 g/l

Permeate

COD	870 mg/l

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