



PRODUCT

AMBR™ - BIOMASS SEPARATION

High performance biomass separation with superior quality results

HIGH FLUX UF MEMBRANE SEPARATION

Aquabio's AMBR™ UF Membrane Separation Units provide next generation biomass separation technology focusing on:-

- High flux performance
- Low CAPEX
- Ease of maintenance



KEY PARAMETERS	AMBR™		
Separation Application	Aerobic biomass separation		
Arrangement	Dry mounted tubular cross-flow membranes Series operation		
Flow Control	Fixed		
Energy Optimisation	Shutdown and flush-out of banks during low and no flow conditions		
Fouling Control	High crossflow shear		
Operating Flux	80 – 150 l/m ² h		
Energy Usage	1.8 – 3.5 kWhr/m ³		
AMBR™ MODEL	AMBR-100-3m	AMBR-150-4m	AMBR-200-4m
Module Size	4 inch / 100mm dia x 3 metre	6 inch / 150mm dia x 4 metre	8 inch / 200mm dia x 4 metre
Membrane materials	PVDF or PES	PVDF or PES	PVDF or PES
Modules per Bank	3 - 6	3 - 5	3 - 5
Dimensions for 2 bank skid	11.7m x 1.9m	11.7m x 1.9m	11.7m x 1.9m
Flow Range per bank	40 – 80 m ³ /day	130 – 220 m ³ /day	240 – 400 m ³ /day
Economic Plant Size	40 – 160 m ³ /day	130 – 440 m ³ /day	440 – 800 m ³ /day

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FILTRATION TECHNOLOGIES

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INNOVATING TOGETHER

BENEFITS	AMBR™	AMBR LE™	AnMBR LE™
Compact design	✓✓	✓	✓
Low energy operation	✓	✓✓	✓
Energy & permeate flow optimisation	✗	✓	✓
'Ramp' up & down capability to deal with varying throughput & biomass conditions	✗	✓	✓
Protective control for key parameters	✓	✓	✓
Standard software – fully tested, well proven operation, rapid delivery	✓	✓	✓
Fully automated operation, autoflush, recirculation cleaning and flushing	✓	✓	✓
Backflush and backflush cleaning capability	✗	✓	✓
Skid / modular / expandable design (install in building)	✓	✓	✓
Containerised options	✓	✓	✓
Rapid procurement and installation	✓	✓	✓
Does not require air or inert gas for fouling control	✓	✓	✓✓
Dry 'out of tank', hygienic operation	✓	✓	✓
No moving parts immersed in biomass	✓	✓	✓
Choice of membrane materials and suppliers	✓	✓	✓

PROJECT DELIVERY OPTIONS

Licensee	✓	System design
	✓	Minimum control/software package
	✓	Local manufacture
Skid Package	✓	Offsite construction
	✓	Pre-wired valves and instruments – fully tested
	✓	Quick and easy installation
Containerised Plant	✓	Fully engineered and tested
	✓	Plug and play
Turnkey	✓	Complete treatment solutions

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