



Hollow Fiber MBR Module





Company profile

imemflo MBR module from the Makers of ATB WATER GmbH [Germany] winner of GreenTech Award have integrated skills and expertise in water and waste water treatment technologies. imemflo's high quality MBR modules and complementary water / waste water treatment products to help our customers improve their competitiveness and plant performance. The professional membrane products manufactured for microfiltration, ultrafiltration, nano filtration and reverse osmosis, provide value to the customers. The main objective on which imemflo strive is to build leadership in the membrane market.

imemflo as one of the main product of ATB WATER GmbH the German waste water Treatment company, include flat sheet and hollow fibre membrane, commonly known MBR module / submerged ultrafiltration. This is used for both Industrial & Domestic waste water treatment.

Imemflo has always focused on membrane research and development to meet customers stringent filtration needs and now available as flat sheet [F-MBR] and hollow fibre module [HF-MBR]

We have been cooperating with many steady customers worldwide. To meet customers 'requirements, we not only supply membrane products, but also membrane process design, system consultant service. Our key employees have more than a decade experience in membrane production and applications.

Imemflo devote to supply membrane products for liquid separation, concentration and clarification with guaranteed consistent membrane quality and also to deliver more efficient membrane process for a greater success for you in your markets.

We respect quality and are driven by quality standards. Each MBR module is engraved with unique identification code to facilitate tracking of the product quality with 100% integrity test on every product with stringent standards which has established our products as reputed high quality in the water field.

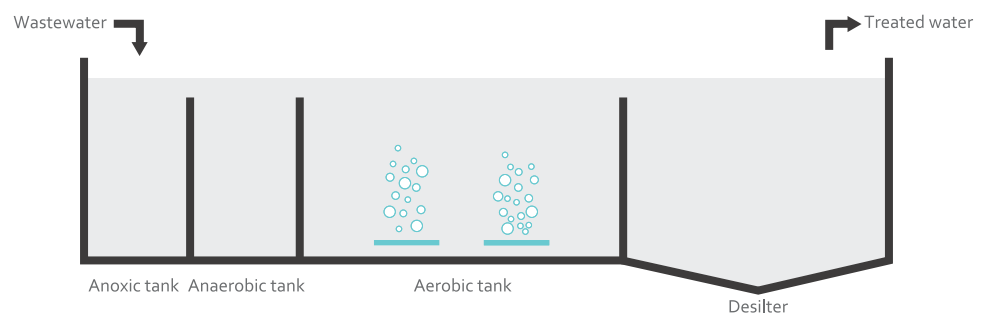
The product is applied successfully in the field of emulsified WWTP, Landfill leachate treatment, Domestic sewage Treatment, Laundry waste water treatment and industrial waste water treatment.

Hollow Fiber MBR (HF-MBR)

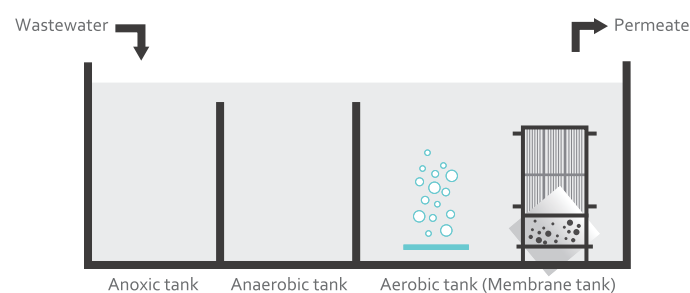
MBR Introduction

Membrane bioreactor (MBR) is the combination of a membrane process like microfiltration or ultrafiltration with the biological wastewater treatment process and the activated sludge process. It is now widely used for municipal and industrial wastewater treatment. This bioreactor possesses the advantages of membrane filtration and biological treatment technology. Membrane modules, which can replace the secondary sedimentation tank, are used to separate mud and water. The MBR process has obvious advantages compared to the traditional wastewater treatment technology.

Traditional wastewater treatment process



MBR Process



MBR Advantages

- Effluent high quality (low turbidity, low TSS) for regulatory or reuse purposes.
- Not reliant on input water MLSS.
- Longer activated sludge age and lower sludge disposal costs.
- Smaller footprint.
- Easy operation.

Hollow Fiber MBR - Module

Module & Details

Imemflo HF-MBR is assembled as a complete filtration module. It consists of a stainless-steel cage or skid made up of several elements including hollow fiber membranes of imemflo series.

Imemflo HF- MBR element has a bi-directional suction configuration to enhance filtration performances. HF-MBR allows large flux and low investment cost.



Air Diffuser
SS AISI304 or AISI316



Cage and pipes
SS AISI304 or AISI316



PVDF Membrane Element
(6 to 40m²)

PVDF Hollow Fiber

Imemflo 's HF-MBR-MA/MB elements have a microporous structure in the membrane's surface of 0.25 μ m for optimal microfiltration. PVDF materials delivers greater strength & durability.

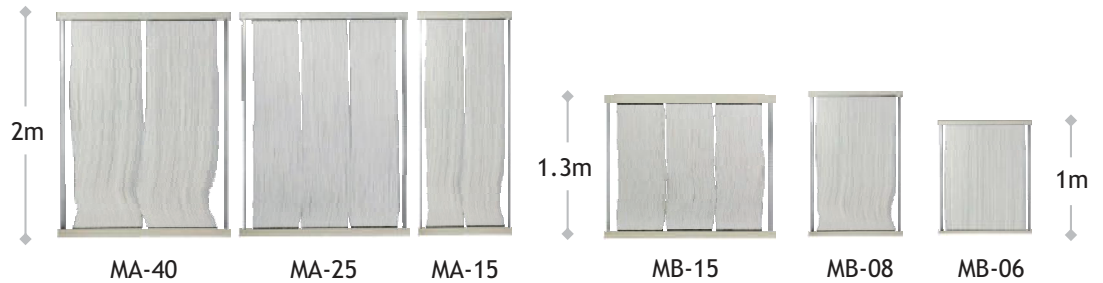
Imemflo HF-MBR-MA/MB Series membranes are made of a strong tubular woven tube and coated with a functional layer of our proprietary permanently hydrophilic PVDF membrane

PVDF Material Features

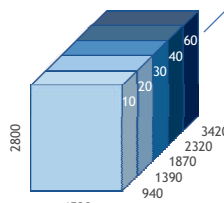
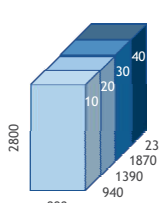
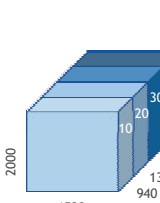
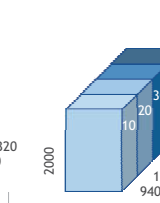
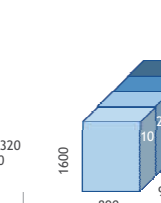


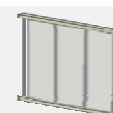




- Permanently hydrophilic
- Enhanced durability tensile strength
- High permeability
- Excellent chemical resistance

Hollow Fiber (HF-MBR)

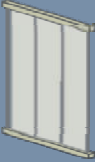
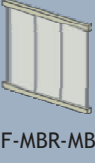
Hollow Fiber MBR Element



Model	MA-40	MA-25	MA-15	MB-15	MB-08	MB-06
Height	2000	2000	2000	1300	1300	1050
Width	1530	1530	890	1530	1530	890
Permeate flux l/m ² h	10 – 30					
Membrane Area (m ²)	40	25	15	15	8	6
Membrane material	PVDF					
Membrane pore size	0.1					
Operation mode	Out Side in					
Membrane frame	SS-304/SS316					
Number of elements	10/20/30/40/50/60					
Configuration	Submerged					
pH	12-Mar					
Output Turbidity	<1.0					

		no. of Elements				
						
						
HMBR-MA40	HMBR-MA25	HMBR-MA15	HMBR-MB15	HMBR-MB08	HMBR-MB06	
40m ²	25m ²	15m ²	15m ²	8m ²	6m ²	
30x1250x2000	30x1250x2000	30x620x2000	30x1250x1300	30x620x1300	30x620x1015	
Approx. 15 kg	Approx. 10 kg	Approx. 6 kg	Approx. 6 kg	Approx. 3 kg	Approx. 2 kg	

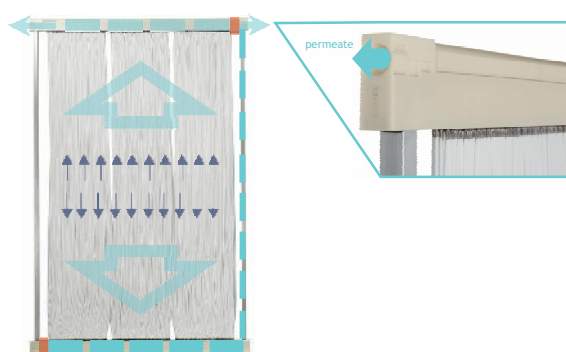
HF-MBR - MA/MB Module Specifications

		Number of element		10	20	30	40	60			
Element type				HF-MBR-MA40-10	HF-MBR-MA40-20	HF-MBR-MA40-30	HF-MBR-MA40-40	HF-MBR-MA40-60			
Water depth: > 3m	40m² Thin OD : 1.65 UF : 0.25  HF-MBR-MA40 30x1250x2000	D : 940	400 kg	D : 1390	600 kg	D : 1870	800 kg	D : 2320	1000 kg	D : 3420	1550 kg
		W : 1530	H : 2800	W : 1530	H : 2800	W : 1530	H : 2800	W : 1530	H : 2800	W : 1530	H : 2800
		400 m ²		800 m ²		1200 m ²		1600 m ²		2400 m ²	
Water depth: > 3m	25m² Thick OD : 2.3 UF : 0.25  HF-MBR-MA25 30x1250x2000	D : 940	400 kg	D : 1390	600 kg	D : 1870	800 kg	D : 2320	1000 kg	D : 3420	1550 kg
		W : 1530	H : 2800	W : 1530	H : 2800	W : 1530	H : 2800	W : 1530	H : 2800	W : 1530	H : 2800
		250 m ²		500 m ²		750 m ²		1000 m ²		1500 m ²	
Water depth: > 3m	15m² Thick OD : 2.3 UF : 0.25  HF-MBR-MA15 30x620x2000	D : 940	300kg	D : 1390	500kg	D : 1870	600kg	D : 2320	800kg		
		W : 890	H : 2800	W : 890	H : 2800	W : 890	H : 2800	W : 890	H : 2800		
		150 m ²		300 m ²		450 m ²		600 m ²			
Water depth: > 2.3m	15m² Thick OD : 2.3 UF : 0.25  HF-MBR-MB15 30x1250x1300	D : 940	300kg	D : 1390	500kg	D : 1870	600kg	D : 2320	800kg		
		W : 1530	H : 2000	W : 1530	H : 2000	W : 1530	H : 2000	W : 1530	H : 2000		
		150 m ²		300 m ²		450 m ²		600 m ²			
Water depth: > 2.3m	8m² Thick OD : 2.3 UF : 0.25  HF-MBR-MB08 30x620x1300	D : 940	250 kg	D : 1390	450 kg	D : 1870	550 kg	D : 2320	750 kg		
		W : 890	H : 2000	W : 890	H : 2000	W : 890	H : 2000	W : 890	H : 2000		
		80 m ²		160 m ²		240 m ²		320 m ²			
Water depth: > 1.8m	6m² Thick OD : 2.3 UF : 0.25  HF-MBR-MB06 30x620x1015	D : 940	250 kg	D : 1390	450 kg	D : 1870	550 kg	D : 2320	750 kg		
		W : 890	H : 1600	W : 890	H : 1600	W : 890	H : 1600	W : 890	H : 1600		
		60 m ²		120 m ²		180 m ²		240 m ²			

HF-MBR - MA/MB Module Specifications

Model No.	Element Model	No. of Elements	Surface Area	Dry Weight	Min water depth	Dimensions (mm)			Connection			Aeration (Nm ³ /min)		
						Depth	Width	Height	Permeate Nozzle	Air Nozzle	Guide Pipe	Min	Standard	Max
						A	B	C	D	E	(75m/h)	(125m/h)	(150m/h)	
HF-MBR-MB06-10	HF-MBR-MB06	10	60	120	1.5	890	940	1300	DN50	DN50	DN65	0.4	0.7	0.8
HF-MBR-MB06-20		20	120	190	1.5	890	1390	1300	DN50	DN50	DN65	0.8	1.2	1.6
HF-MBR-MB06-30		30	180	260	1.5	890	1870	1300	DN50	DN50	DN65	1.1	1.8	2.2
HF-MBR-MB06-40		40	240	330	1.5	890	2320	1300	DN65	DN80	DN65	1.4	2.2	2.8
HF-MBR-MB08-10	HF-MBR-MB08	10	80	350	2	890	940	1800	DN65	DN80	DN65	0.4	0.7	0.8
HF-MBR-MB08-20		20	160	500	2	890	1390	1800	DN80	DN100	DN65	0.8	1.2	1.6
HF-MBR-MB08-30		30	240	650	2	890	1870	1800	DN80	DN100	DN65	1.1	1.8	2.2
HF-MBR-MB08-40		40	320	850	2	890	2320	1800	DN100	DN100	DN65	1.4	2.2	2.8
HF-MBR-MB15-10	HF-MBR-MB15	10	150	350	2	1510	940	1800	DN65	DN80	DN65	0.8	1.5	1.7
HF-MBR-MB15-20		20	300	500	2	1510	1390	1800	DN80	DN100	DN65	1.5	2.7	3.1
HF-MBR-MB15-30		30	450	650	2	1510	1870	1800	DN80	DN100	DN65	2.2	3.8	4.5
HF-MBR-MB15-40		40	600	850	2	1510	2320	1800	DN100	DN100	DN65	2.9	5	5.9
HF-MBR-MA15-10	HF-MBR-MA15	10	150	350	3	890	940	2800	DN65	DN80	DN65	0.8	1.5	1.7
HF-MBR-MA15-20		20	300	500	3	890	1390	2800	DN80	DN100	DN65	1.5	2.7	3.1
HF-MBR-MA15-30		30	450	650	3	890	1870	2800	DN80	DN100	DN65	2.2	3.8	4.5
HF-MBR-MA15-40		40	600	850	3	890	2320	2800	DN100	DN100	DN65	2.9	5	5.9
HF-MBR-MA25-10	HF-MBR-MA25	10	250	300	3	1510	940	2800	DN65	DN80	DN80	0.8	1.5	1.7
HF-MBR-MA25-20		20	500	600	3	1510	1390	2800	DN80	DN100	DN80	1.5	2.7	3.1
HF-MBR-MA25-30		30	750	800	3	1510	1870	2800	DN100	DN100	DN80	2.2	3.8	4.5
HF-MBR-MA25-40		40	1000	1200	3	1510	2320	2800	DN100	DN100	DN80	2.9	5	5.9
HF-MBR-MA25-60		60	1500	1600	3	1510	3420	2800	DN100	DN100	DN80	4.4	7.7	9
HF-MBR-MA40-10	HF-MBR-MA40	10	400	300	3	1510	940	2800	65A	80A	DN80	0.8	1.5	1.7
HF-MBR-MA40-20		20	800	600	3	1510	1390	2800	65A	80A	DN80	1.5	2.7	3.1
HF-MBR-MA40-30		30	1200	800	3	1510	1870	2800	65A	80A	DN80	2.2	3.8	4.5
HF-MBR-MA40-40		40	1600	1200	3	1510	2320	2800	65A	80A	DN80	2.9	5	5.9
HF-MBR-MA40-60		60	2400	1600	3	1510	3420	2800	65A	80A	DN80	4.4	7.7	9

HF-MBR MA/MB Element





Waste Water Treatment

A complete Waste Water Solutions
includes STP, ETP, ZLD, GWT



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Operation & Maintenance, chemicals



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Organic Waste Management
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