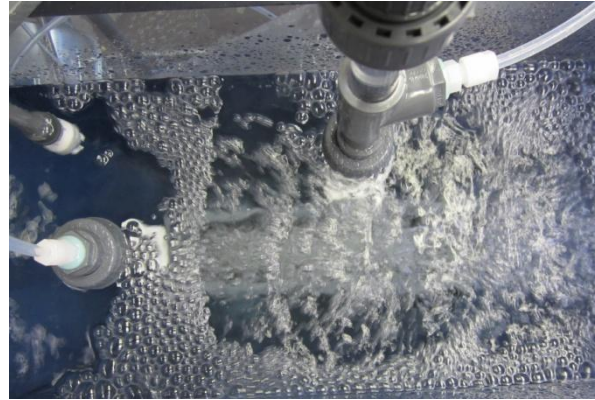


Membrane Bioreactor (MBR)



DIMENSIONS

Dimension	approx. 1600 x 600 x 1500 mm (L x B x H)
Weight	approx. 100 kg
Material (wetted parts)	PVDF / PP / PVC / EPDM / PTFE / brass and stainless steel (group V4A)
IP protection class	IP 54

ELEKTRICAL DATA

Connection for power supply	16 A SCHUKO / 230 V / 50 Hz / L / N / PE
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DATA

Feed tank	approx. 60 l (PVC)
Reaction tank	approx. 50 l (PVC)
MBR tank	approx. 50 l (PVC, transparent)
Filtrate- and backwash tank	approx. 2 l (PVC, transparent)
Immersed module	UF Bio-Cell plate module (approx. 0,34 m ²) or similar
Field of use	UF / MF
Temperature range	up to 50 °C (pressureless)
Pressure range	-0,5 – 1 bar

Flow rate (feed)	4 – 24 l/h
Flow rate (recirculation)	15 – 60 l/h
Flow rate (filtrate)	4 – 24 l/h
Flow rate (compressed air)	100 – 500 l/h

The specified technical data are maximum values. They do not coincide all at the same time!

SENSORS	MEASURING RANGE	QUANTITY
Pressure (ventilation)	0 – 0,5 bar	(1 piece)
Pressure (permeate)	-0,5 – 1 bar	(1 piece)
Volume flow (ventilation) (variable area flow meter)	50 - 500 l/h	(1 piece)
Level sensor (toggle switch)		(3 pieces)

FIELD OF USE

Training and internship of membrane bioreactors

Experiments on degradability of various substances from industrial, domestic and process waters in the membrane bioreactor

Experiments to determine process parameters

Cleanability experiments of bio- and inorganic fouling on membranes

Schematic view of Membrane Bioreactor (MBR)

