

AQQA® - better water made easy

submerged filter for membrane bioreactors (MBR), industrial and municipal sewage

- robust
- low maintenance
- durable
- 100% made in Germany

AQQA® is the next generation membrane plate filter for wastewater and drinking water.

AQQA® is based on the proven design of a plate filter, but adds new, innovative features that make it unique.

Updated design features:

Full backflush capability up to 0,35 bar

- less membrane area required due to higher output per m²: less investment and smaller space requirements
- easier maintenance with cleaning in the air: the filters stay in the system
- automatic recovery clean with intermediate backflush intervals: reduced cost for maintenance
- higher and flexible output, possibility to "overflux" the system

Modular cubical design of the filter frame

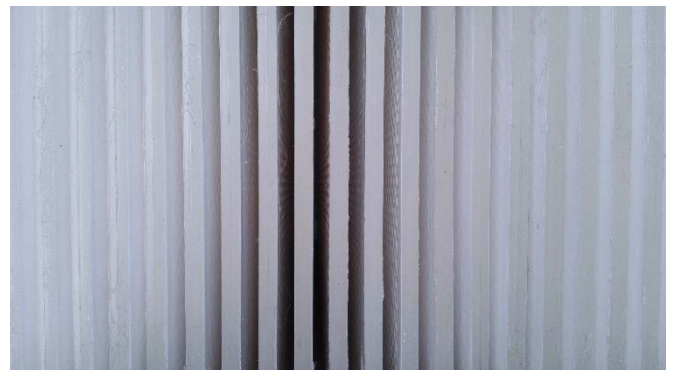
- Easy integration into the tank and the system
- very efficient aeration and upstream channel design for less maintenance and lower energy consumption
- extreme robust design
- single filter plates can be exchanged

New, innovative membrane

- increased membrane porosity per square inch results in higher flux rates
- proven retention rate of >99,9999% for bacteria
- Highest hygienic security and water quality membrane is delivered dry and can dry out

Rigid and straight plates with a constant gap

- no loss of filtration area, plates cannot touch and do not stick together
- Higher resistance to clogging with fibers, no manual cleaning, less pre-filtration requirements
- very efficient mechanical cleaning with high shearing forces on the membrane surface lead to less maintenance and lower energy consumption
- high packing density for a small footprint and smaller membrane tanks

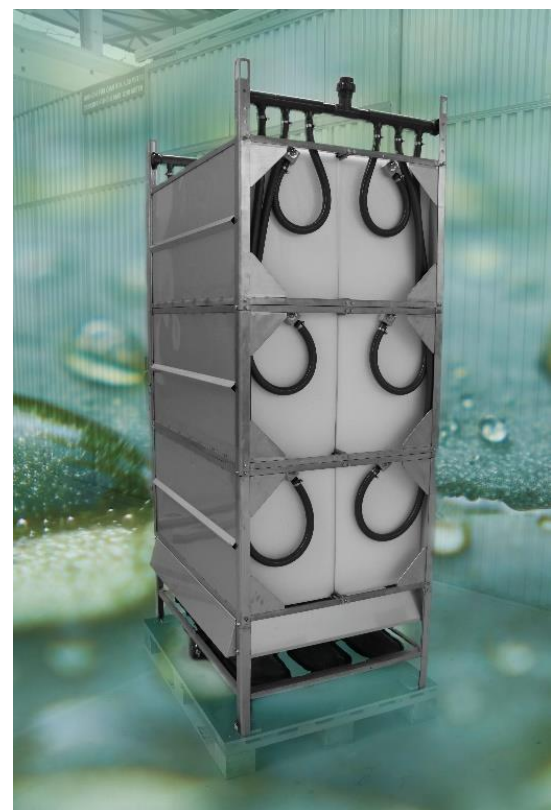


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Technical data AQQA®-membrane modules

Model	AQQA®4	AQQA®8	AQQA® 25	AQQA® 50	AQQA® 75	AQQA® 80	AQQA® 160	AQQA® 240	AQQA® 320
membrane surface area, m ²	3,8	8	25	50	75	80	160	240	320
Height, mm	860	860	1291	1867	2443	1291	1867	2443	3019
Width, mm	423	423	700	700	700	1240	1240	1240	1240
Depth, mm	195	299	550	550	550	973	973	973	973
weight dry, kg	10	15	65	120	175	170	310	450	590
Average Output* in wastewater (MBR), l/h	100	200	625 – 875	1250 – 1750	1875 – 2625	2000 – 2800	4000 – 5600	6000 – 8400	8000 – 11200
Max. Output* in wastewater, l/h	190	400	1000 – 1250	2000 – 2500	3000 – 3750	3200 – 4000	6400 – 8000	9600 – 12000	12800 – 16000
Air requirement, Nm ³ /h	6	12	30-40	30-40	30-40	60-80	60-80	60-80	60-80
connector size filtrate PVC, mm	20	20	40	40	40	40 (2 pc)	50 (2 pc)	63 (2 pc)	80 (2 pc)
connector size air PVC, mm	G 1"	G 1"	40	40	40	40	40	40	40
frame material	1.4301 (1.4571 on request and for seawater)								
operating pressure, mbar	10 – 500								
max. backflush pressure, mbar	350								

* depending on wastewater characteristics



AQQA®8, AQQA®25

AQQA®160

AQQA®240