

The MemTriq[®] Industrial

for pharmaceutical industry at AKZO Diosynth

Triqua offers wastewater treatment plants which are especially suited for treatment applications in the chemical and pharmaceutical industry: MemTriq[®] Industrial. Due to the use of membrane technology a high rate biological wastewater treatment is created, which is able to deal with all kind of organic components. The MemTriq[®] Industrial is custom made, so the plant always meets your technical standards.

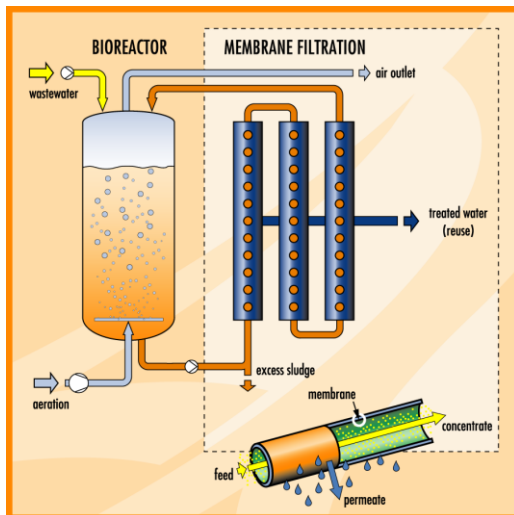
MemTriq[®] Industrial

The MemTriq[®] Industrial combines biological treatment in a bioreactor with membrane filtration technology. In the bioreactor a large variety of organic components are oxidised by bacteria into CO₂-gas. Due to the application of membranes bacteria always remain in the bioreactor. Therefore the contact time between organic components and bacteria is long, which results in a high treatment efficiency.

Characteristics:

- High reliability and simple operation. The system is insensitive for shock loads or toxic wastewater streams
- Very compact design. By applying membrane technology a large biological activity can be maintained in a small volume
- High treatment efficiency
- Treated water is free of suspended solids and bacteria
- Eminently suitable for wastewater flows that are difficult to treat
- The custom made MemTriq[®] Industrial always meets your technical standards

Component	Influent (ppm)	Effluent (ppm)
COD	20.000	1.000
Aceton + 2-Propanol	1.100	50
Hexane	50	0
Pyridine	400	10
Toluene	100	3
Methylene chloride	20	0



Wastewater treatment at Akzo Diosynth

Wastewater coming from the production process is collected in a buffertank. The production processes are discontinuous. After the buffertank the water is treated in the MemTriq[®] Industrial. The effluent is discharged at the sewersystem. Due to the batch production processes and even after the buffertank the influent composition for the MemTriq[®] still fluctuates. For example, the pH differs from 4 till 11.

Design parameters		
Dimensions	Volume bioreactor	106 m ³ (net)
	Membrane surface	12 m ²
Capacity	Hydraulic	20.8 m ³ /day
	COD load	620 kg/day

Voor meer informatie:

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