



BIOLAK® Technology GmbH
COMPETENCE IN WATER AND RENEWABLE ENERGY



BIOLAK® Aeration

We are aeration specialists for:

- Municipal wastewater treatment plants
- Industrial process water treatment plants
- Lagoons and fish ponds
- Canals



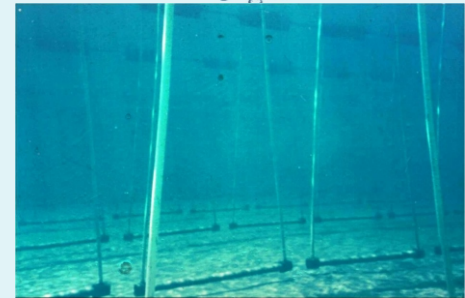
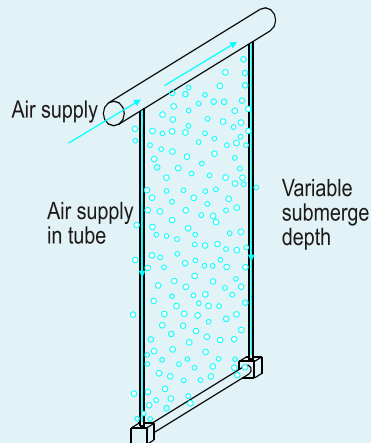
BIOLAK® Aeration systems

BIOLAK® aerators have been applied by us for wastewater treatment projects since 35 years. More than 750 plants are equipped with such aerators all over the world.

We as a Process Engineering Company involved with the construction of sewage treatment plants, offer the client tailor-made solutions both for the aeration and complete plants.

FRIOX AERATOR

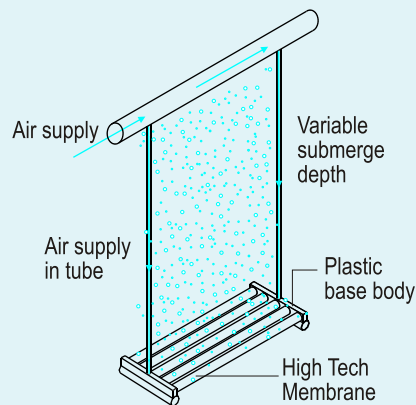
FRIOX is an aerator of extremely long lifetime. On account of its mechanical features, the Frix aerator is especially suitable for implementation in plants of low oxygen requirement and for aeration of lakes and fish ponds or canals.



Floating FRIOX aerators

OXI-RACK II

At present, OXI RACK II is the classic which has proven its worth a 100,000 times. One of the features of the OXI RACK II is the incorporated high tech membrane providing extraordinarily high oxygen entry for this fine air bubbling aerator. Its synthetic body material is indestructible.



Aeration with OXI-RACKs

BIOLAK® aerators cleaning during operation

All aeration units can be equipped with an automatic fixed or manual mobile cleaning system. The cleaning agent is selected according to the specifications of the waste water, density and structure.

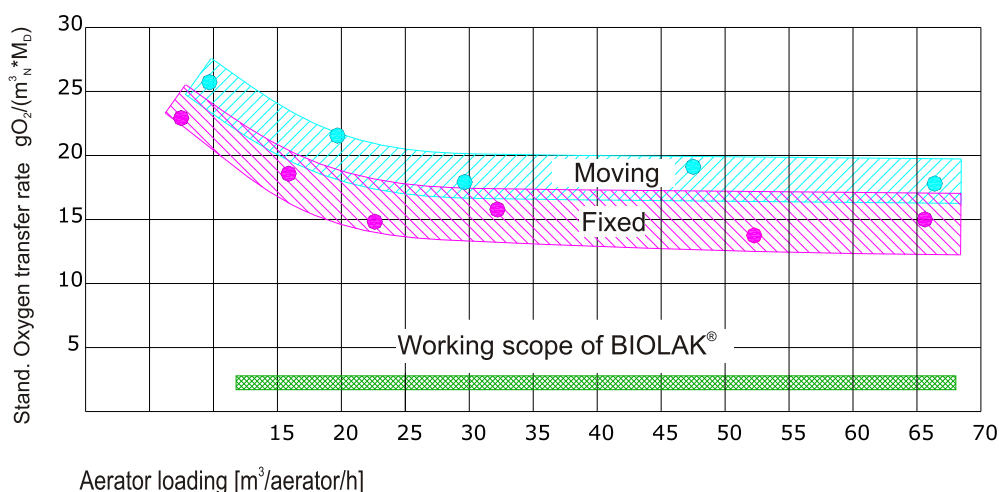


BIOLAK[®] moving aeration chains

The main characteristic of the BIOLAK[®] System is the moving aeration chains covering each section of the activated sludge basin and providing equal and economical oxygen supply with guaranteed odorlessness. The moving aeration chains can also be used for our patented process systems such as BIOLAK[®]-WOX and BIOLAK[®] Integral and have the following advantages:

- Maintenance works on the aerators can also be performed in the case of full basins, while the remaining chains are still in operation.
- The sludge is kept in the water column by the aeration.
- By moving the chains from sections of high oxygen content to sections of poor oxygen content, the aeration is effected with a very high oxygen transfer ratio. BIOLAK[®] aerators are saving upto 20% of energy in comparison with conventional aeration.
- The intelligent WOX system enables a multi-cascade denitrification by effective aeration management.
- As an effect of the movement of the chains, the air bubbles achieve a triple retention time in the water compared to the fixed mounted aeration.

Standard oxygen transfer rate



Standard oxygen transfer rates for fixed and moving aeration with membrane diffusers according to the ASCE-Standard (20°C and 1,013 mbar).



The best results also under extreme climatic conditions



Easy maintenance

BIOLAK[®] Refitting

The refitting of a highly efficient aeration in plants with surface aerators, ponds or any other conventional plants can be realized in a simple and economical way by application of our BIOLAK[®] system.

Using the existing basins in most cases and considering the low expenditure at installation of the aeration, the reconstruction or refitting can be realized even partially without emptying the basin at minimal or no downtimes at all.



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