

Biological restoration of lakes and stream with effective aeration.

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 **Bio Reco**  

Effective oxidation of lakes and streams...



The Bio-Reco's principle is based on the theory of the natural movement of the water, where the water-molecular move in clean water in its natural form in endless whorl. The energy of the water is very high and is capable to contain and keep high oxygen content. When the water is polluted, these natural movements are reduced and the water loses its vital energy and the ability to keep the oxygen content.

The Bio-Reco is constructed to work in accordance with the natural mechanical theory, which proves to be considerable more effective than use of ordinary oxidizing machines. The Bio-Reco brings the water in a natural whorl movement. When the process has started it only needs a very small quantity of energy. The whorl, which is made of the water-movements, sucks in the atmospheric air to the water. The shape of the Bio-Reco changes the air current into millions of very small bobbles. The total surface of the millions of small bobbles is enormous and the contact surface between the water molecular and the oxygen molecular is maximum.

Compared to other methods of oxidation the efficiency of the Bio-Reco is very high.

The Bio-Reco can in short time re-establish high oxygen content in large quantity of water and furthermore it is suitable for maintenance of the oxygen content in the water.

The Bio-Reco is easy to install in lakes, streams, fishponds, biologically restoration plants, waterworks and also in slurry- and liquid-manure tanks.

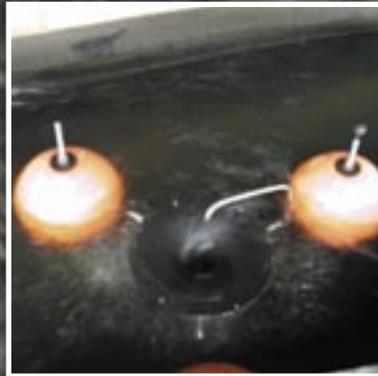
Bio-Reco 800 (1,5 kW is suitable for aeration in lakes from 500 to 600.000 m³)

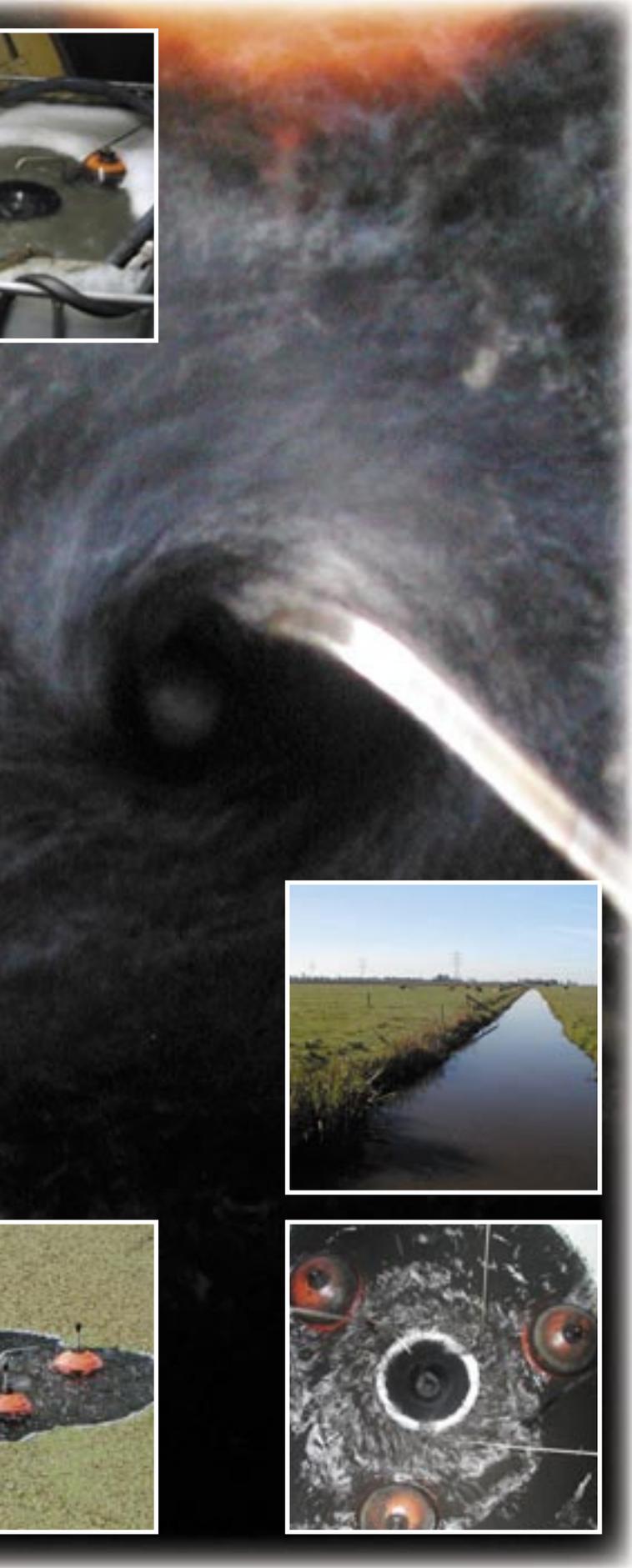
Bio-Reco 300 (0,18 kW is suitable for aeration in lakes etc. up to 10.000 m³ and is very suitable for small jobs such as swimming pools, fish farming and sewage works etc.)

Bio-Reco raises the oxygen content in the water on the water surface as well as at the bottom without the mud and the sediment being whirled up.

The Bio-Reco is suitable to mix extract from medicinal herbs in the water.

The Bio-Reco sees to optimum living conditions for the fishes and the fauna.





The Bio-Reco machine has been tested for many years and is improved continuously on the bases of practical experiences where new methods are introduced.

The Bio-Reco is often used in the lakes where there is a high content of seaweed in the water surface, which is caused because of the high concentration of the nutritious in the water. The seaweed stops the sunbeams to reach the bottom of the lake. The light is vital for the bottom vegetation as it is a condition for its existence. Retrogression of the bottom vegetation reduces the producing process, a process, which demands oxygen. The oxygen is mainly produced by the bottom vegetation or through waves caused by the wind. In periods with very little wind or no wind at all the oxidation at the bottom of the lakes is excluded. Are there at the same time no existing vegetation oxidation is also not possible.

Then it is impossible for fish and other living creatures to live at the bottom of the lake. From time to time the conditions are so extreme that you can see fishes gasp for air. When all oxygen is used the producing process at the bottom of the lakes stops and is replaced with a development of poisonous gases such as sulphur and methane.

Dead fish and seaweed etc. that sink from the water surface increases the bottom layer and furthermore reduces the process. At the end the organic material is turned into a thick stinking layer of mud.

By using the Bio-Reco methods it is possible to avoid this situation and regenerate the water or the wastewater with minimum costs.

The Bio-Reco raises very fast the oxygen content on the water surface and also in the deeper water layer plus at the bottom of the lake. This raised oxygen content reduces now the mud layer, which is compost. The improved conditions activate the fishes plus other living creatures and they start again to breed. A large number of fish and other small animals such as the water tick then start to eat the seaweed.

When the quantity of seaweed decreases the transparency of the water improves a lot which means that sun beams again can get through to vegetation which hereafter begins to grow, use nutritious and process oxygen and the interior balance will again be intact.

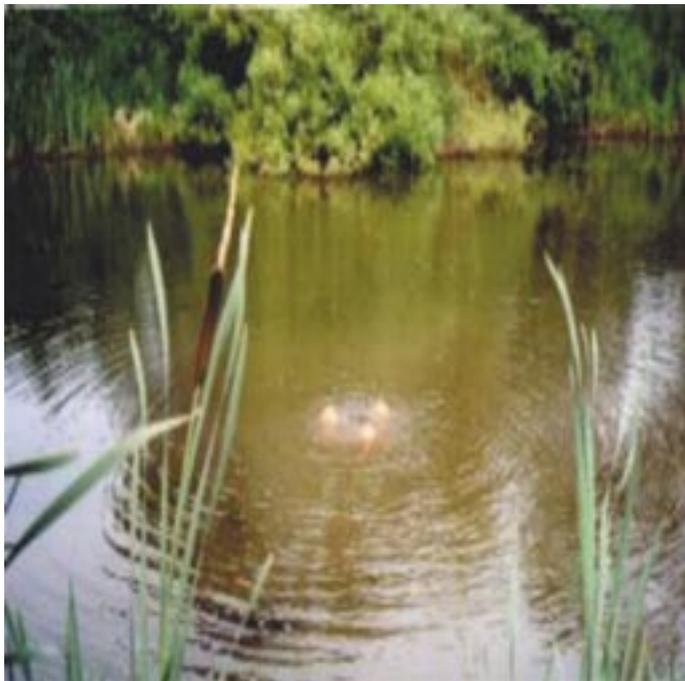


The aeration method of Bio-Reco will:

- Quickly raise the oxygen content on the water surface as well as at the bottom of the lake to the necessary level.
- Raise the transparency of the water.
- Compost the mud layer.
- Improve the living conditions for fish and other living creatures and the fauna as a unit.
- Gentle stirring over large areas.

The aeration method of the Bio-Reco is also known by:

- A low noise level.
- A low energy consumption compared to the raise of the oxygen content of the water.



*Call for further information
regarding effective aeration
of water with the Bio-Reco.*

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