

Afmitech's solution for algae and eutrophication: The Rotating Bubble Aerator



At the moment Afmitech Friesland is optimizing and testing the latest product: the Rotating Bubble Aerator. With its low weight of only 90 kilograms and its low noise, this promising product is ideal to revitalize stagnant surface water.

What is the Rotating Bubble Aerator?

The rotating Bubble Aerator is a directly applicable floating aeration unit. The aerator has a small size, a low weight of only 90 kilograms and a simple floating construction. For these reasons this aerator can be used quickly in almost all stagnant surface water situations that suffer from eutrophication. Using this aerator prevents the water becoming a breeding place for algae and disease carrying mosquitoes and parasites. With oxygen enrichment and recirculation the water is revitalized. This will make a healthy aquatic life possible.

The oxygen is mixed with the water under the water surface in a diameter of approximately twelve meters around the Rotating Bubble Aerator. With the optional application of a suction pipe with a float ball, a forced recirculation of the water can be accomplished over longer distances.

Why aerate using the Rotating Bubble Aerator?

In contrast to conventional (surface) aerators, the Rotating Bubble Aerator completely works under the water surface. Due to this submerged functioning no aerosols are produced and noise nuisance is limited to a minimum.

When a low rpm setting is used, the aerator can also be used to mix the surface water without adding oxygen.

Applications

The Rotating Bubble Aerator can be used for the following situations:

- Prevention and controlling of algae
- Improving quality of bathing water
- Revitalizing of fishing ponds and lakes
- Revitalizing moats and harbours
- Emergency aeration in case of aquatic life threat
- Temporary and permanent aeration at aerobic wastewater treatment plants



Emergency aeration with a 2,2 kW Rotating Bubble Aerator. In this situation the aerator is used in a small carp lake that coped with fish kill resulting from lack of oxygen .