

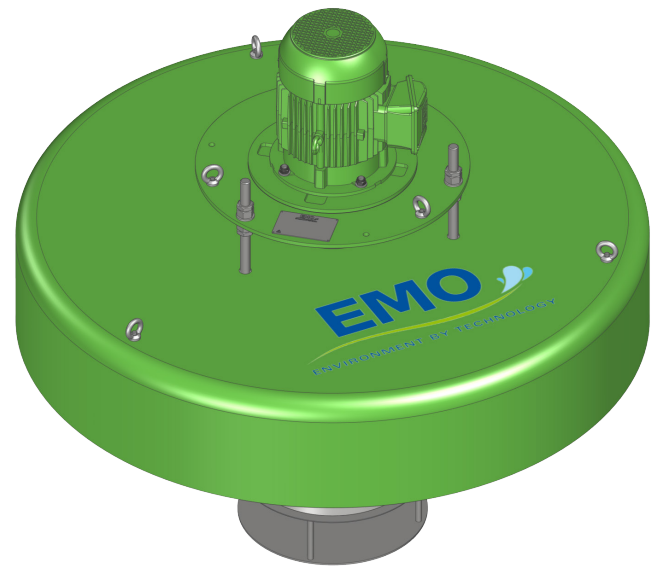


A range of **surface aerators** designed for wastewater treatment. Two key words are **AERATION** and **MIXING** to ensure the most efficient ratio dissolved oxygen/energy consumption.



## ADVANTAGES

- Self-standing structure stabilised by cables
- Suitable for all types of aeration tank without footbridge
- Unsinkable floats made of resin polyester
- **STAINLESS STEEL** aeration rotor
- Robust system = low maintenance
- Wide range of power from 1,5 to 55 kW





## OPERATING PRINCIPLE

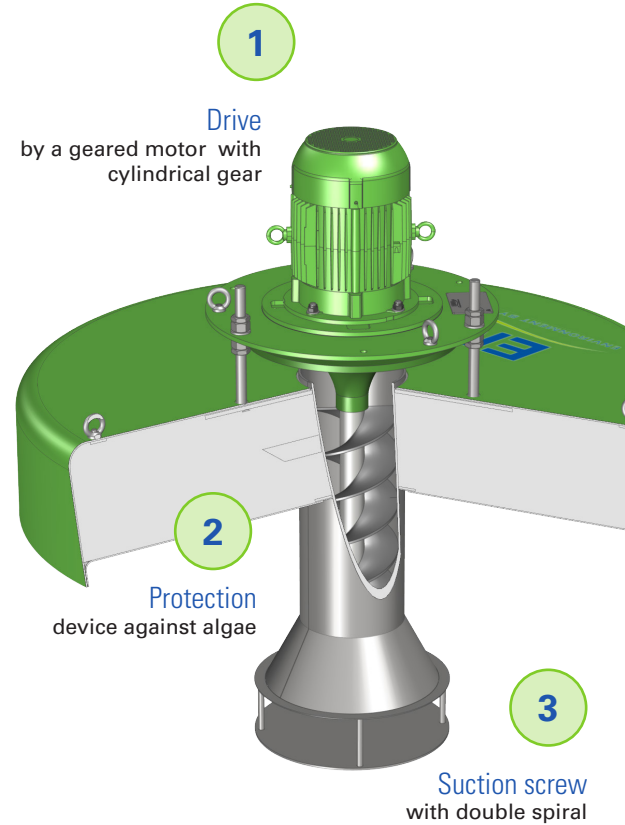
Wastewater aeration systems must perform two functions simultaneously:

- **dissolve oxygen** required for effluent treatment,
- **optimal mixing of the effluent** to keep solid particles in suspension and ensure good homogenisation of the environment.

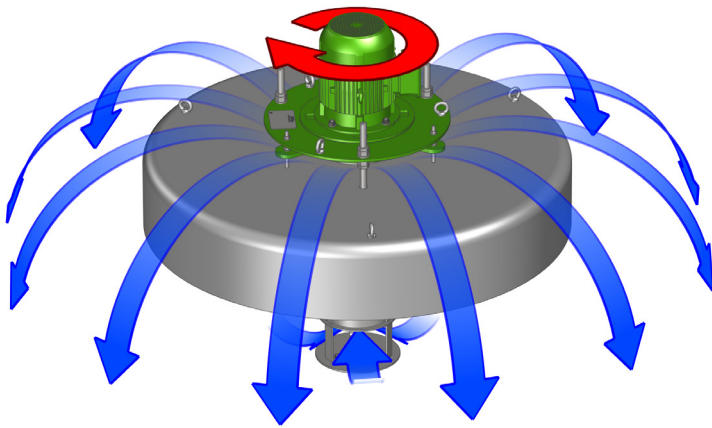
The EMO suction screw pumps the water, creating a mixing action. The water is then projected onto the surface, creating a spray of water on the surface of the pond that helps or enables oxygenation.

Two flows appear: the water rises vertically at high speed and changes direction thanks to a conical deflector, which produces a **suction of air** (downward flow). The combination of the two flows **oxygenates the water**.

The suction screw runs at motor speed, directly coupled, without a gearbox, which has the advantage of reducing maintenance operations to a minimum.



Controlled flow analysis for a design that is ever closer to reality and optimal oxygenation.



The aerator lifts the water upwards, while the air moves downwards.



EMO sas,

4 rue Lépine – PA La Richardière, BP 53209, 35530 Noyal sur Vilaine, France  
+ 33 (0)2 99 86 02 03 - emo@emo-france.com

[www.emo-france.com](http://www.emo-france.com)

Certification ISO9001 - ISO14001



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