



AIRTEC LFL

LOW SPEED SURFACE AERATOR

Aeration turbines designed for wastewater treatment.

Two key words: MIX and AERATE.



Open-profile
blades



No catwalk
required



Minimal
maintenance



Call Us Today
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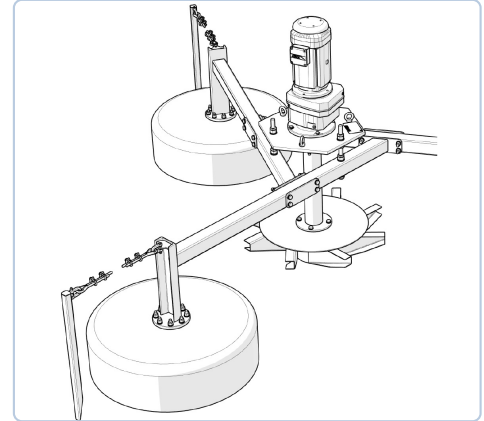
OPERATING MODE

Wastewater aeration systems must fulfill two functions at the same time:

1. Keep solid particles in suspension, ensuring a good homogenization of the medium.
2. Provide the oxygen the treatment of the effluent requires.

The driven rotor agitates the water in the basin and transfers oxygen through air-water contact, projecting a spray onto the surface of the basin: the turbine lifts the water, creating a vacuum while the oxygen descends.

Rotation speed is set so the rotor reaches optimal mixing and oxygen efficiency according to customer requirements. The Airtec LFL has no wearing parts that need to be replaced on a regular basis, which keeps maintenance operations to a minimum.



- 1 **Drive** — gearmotor with cylindrical gears
- 2 **Aeration** — open blades disk
- 3 **Anchoring** — tension cables and composite resin floats

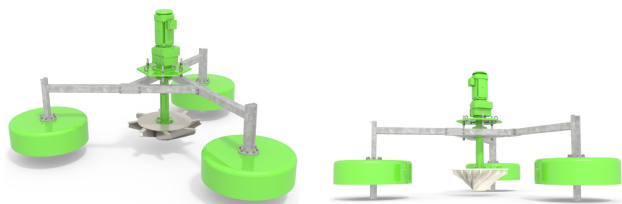
FEATURES & BENEFITS



Stable on any basin

The unit is self-supporting and stabilized by tension cables, so it suits any type of basin and requires no catwalk. Unsinkable floats are made of composite resin injected with foam; their arrangement and shape ensure optimal stability and buoyancy.





Stainless steel rotor

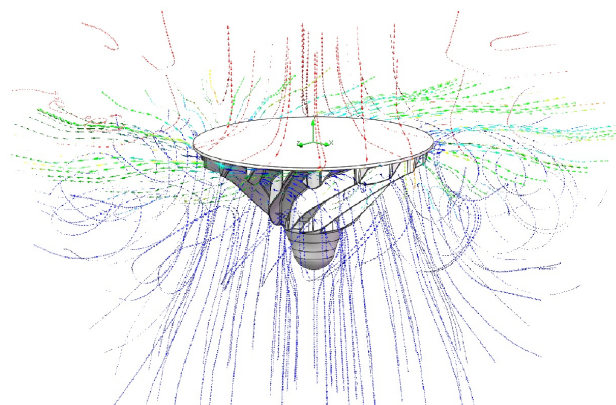
Composite rotor

Stainless steel or composite rotor

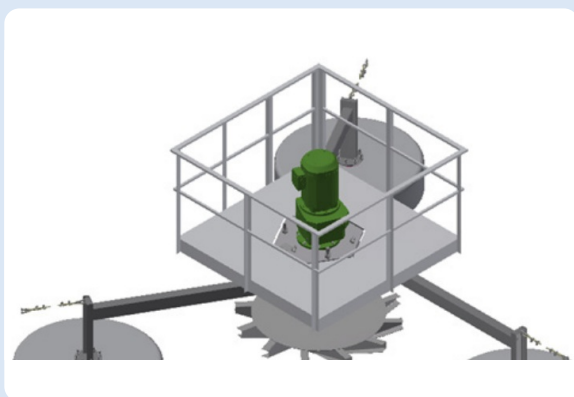
The aeration rotor is available in stainless steel or in composite. Open-profile blades prevent fiber material from accumulating on the disk. A gearmotor with cylindrical gears drives the rotor over a wide power range, from 1.4hp to 100hp (1.1 to 75kW).

Controlled flow analysis

Flow simulation drives the rotor geometry, so the design closely mirrors real operating conditions and achieves optimal oxygenation. The turbine lifts the water while the air descends, producing the spray pattern that transfers oxygen at the surface of the basin.



OPTIONS



Maintenance catwalk

The Airtec LFL operates without a catwalk. Where fixed access to the gearmotor is preferred, a maintenance catwalk with handrails can be supplied with the unit.

PERFORMANCES

APPLICATIONS

Municipal & Industrial

FUNCTION

Mixing & Aeration

DESIGN GUIDELINES

Airtec LFL is configured to the basin and to the treatment duty. Below are some guidelines of the design requirements.

MATERIALS

Aeration rotor : stainless steel or composite

Floats : composite resin injected with foam

Anchoring : tension cables

INSTALLATION

Basin type : any basin, no catwalk required

Structure : self-supporting, cable-stabilized

MOTOR CHARACTERISTICS

Power range : 1.4hp to 100hp (1.1 to 75kW)

Drive : gearmotor with cylindrical gears

Rotation speed : set to the project requirements



Airtec LFL aerators installed in an aerated lagoon

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