



OXYGENATOR

OXYFOX®

OXYFOX® is an oxygenator designed for aquaculture.

This device has a very high capacity of dissolution of oxygen, using few energy.

OXYFOX® has been designed to treat important water flows, and to cover the needs of a series of ponds, or even of the whole fish farm.

The dissolved oxygen level can reach 300% of the saturation at the OXYFOX® outlet.

CHARACTERISTICS

Fabrication

Glass Reinforced Polyester (GRP)

Treated water flow

Up to 400 l/s (1440 m³/h) fresh water

O₂ contents at the outlet

Up to 300% of saturation

Dimensions

Height

From 3 to 5 m

Diameter

From 0,6 to 2,3 m

Where to install OXYFOX® ?

OXYFOX® can be installed on a by-pass of the main channel of a fish farm for example. In this case, the treated water flow is part of the general water flow.

OXYFOX® is installed either at the outlet of the pump(s) or on a waterfall of sufficient height.

OXYFOX® is partially buried in the ground or installed on the bottom of a deep pond. So, it takes advantage of the hydrostatic pressure for a better oxygen dissolution.

One or several pumps ?

It is judicious to install the OXYFOX® with two or three pumps, to adjust the treated water flow to the needs of the fish, but also for safety reasons. The equipment is designed in such a way that the outlet concentration remains optimum, when working either with one or several pumps.

OXYGENATION CAPACITY

Temperature 14°C, efficiency 80%.

| Description | Type of water | Water flow | O ₂ concentration at the outlet | Dissolved oxygen (D.O.) | Consumed energy (about) | Ratio kg O ₂ / kWh |
|-------------|---------------|------------|--|-------------------------|-------------------------|-------------------------------|
| OXYFOX® 110 | Fresh water | 110 l/s | 29 ppm | 8,3 kg/h | 2,5 kW | 3,3 |
| OXYFOX® 200 | Fresh water | 200 l/s | 29 ppm | 15,1 kg/h | 4,6 kW | 3,3 |
| OXYFOX® 360 | Fresh water | 360 l/s | 29 ppm | 27 kg/h | 8,3 kW | 3,3 |

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