

# OXYTECH

## OXYGEN MIXER



Providing total oxygenation of the entire water flow, Oxytech provides bespoke flexibility for individual tanks when needed.



More than one thousand Oxytechs have been installed in land-based aquaculture systems over the past 25 years. Oxytech is produced in PE (polyethylene).

Supplied with a sidestream flow of water, the water is pressurised in the tank. Oxygen enters through an internal injector. The mixture is recirculated under a slight head of pressure which dissolves the gas into the water phase, resulting in oxygen supersaturated water.

Bubbles that form at the top of the tank are drawn back to the inlet via the internal injector. This gas recycling ensures a high efficiency process.

Oxytech works under a relatively low pressure maintaining low energy costs, while allowing the use of all oxygen sources, liquid or self-generated.

Oxytech allows the freedom to choose your gas source and the opportunity to save more by producing oxygen in-situ.

The combination of low pressure and PE design provides an installation that does not expose the user to health hazard, as PVC or glass fiber designs can.

## The Oxytech oxygen saturation system

is designed through a recirculatory saturation method in a vertical tank. Water input has to be at 90 % design flow with an inlet pressure of > 2.6 Barg. This ensures receipt of oxygen into the fluids in the oxytech.

## Reducing nitrogen oversaturation

The process can also reduce the nitrogen concentration in water when the oxygen mixer is operated at higher capacity. As a result of the injector design, the nitrogen is physically removed from the water.

Parameter				
	3000 PE	4000 PE	6000 PE	8000 PE
Capacity (kg O <sub>2</sub> /h)	3	4	6,5	15
Max flow (l/min)	500	550	850	2000
Working pressure (bar g)	2,5 - 3,0	2,5 - 3,5	2,5 - 3,5	2,5 - 3,5



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