

AQUASUB AERATORS

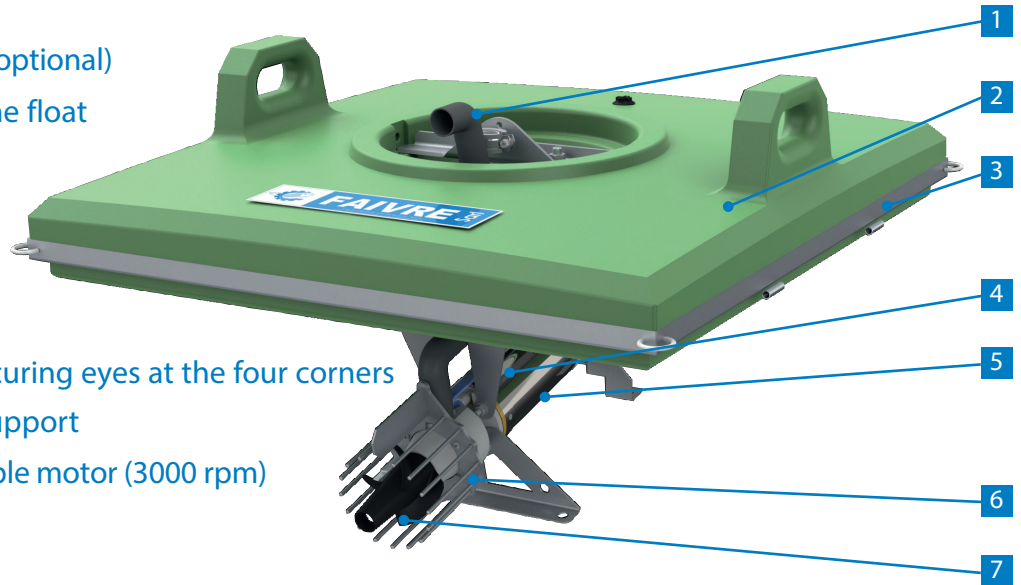


AQUASUB



FAIVRE

- 1 Air intake pipe with silencer (optional)
- 2 Rotary moulded polyethylene float



- 3 Stainless steel frame with securing eyes at the four corners
- 4 304L stainless-steel motor support
- 5 IP 58 stainless steel submersible motor (3000 rpm)
- 6 Self-cleaning stainless steel strainer
- 7 Three-blade turbine made of carbon-reinforced anti-abrasion composite material

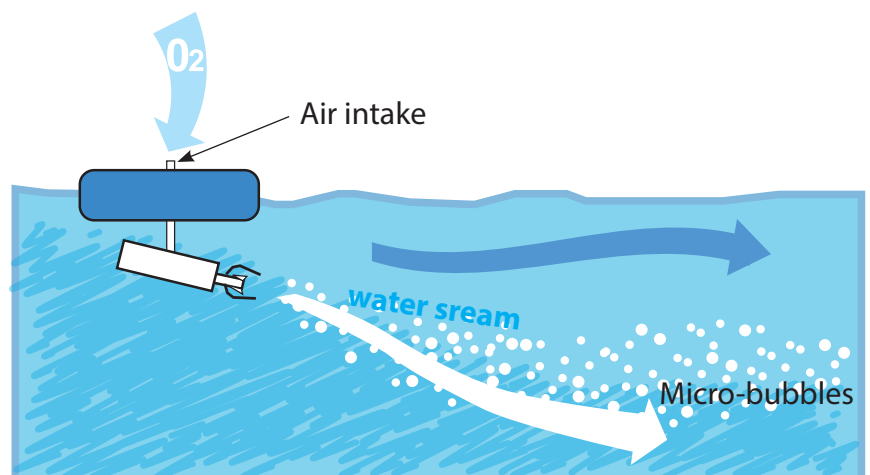
AQUASUB MAY BE USED IN SEVERAL CASES :

- ▶ To air and **destratify** lakes and ponds
- ▶ For **desaturating** water that is oversaturated with gas etc.

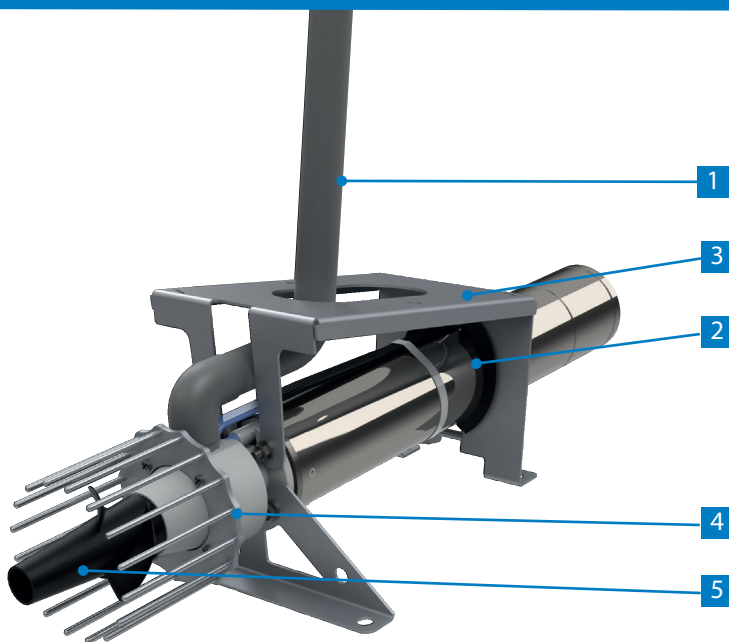
AQUASUB is a hydro-ejector that achieves both aeration and the movement of water masses. It is used in inland lakes and ponds to provide the oxygen that is so indispensable for fish life. Because they are designed to be simple and rugged, our devices can be used in all circumstances.

PRACTICAL AND COST BENEFITS

- Compact portable unit
- Low noise
- Very simple and inexpensive installation
- Unobtrusive floating unit (no level adjustment)
- No maintenance (no need to lubricate)
- Self cleaning strainer

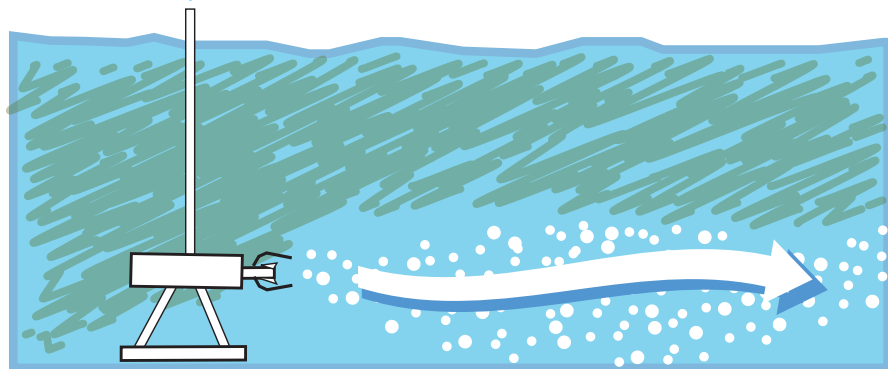


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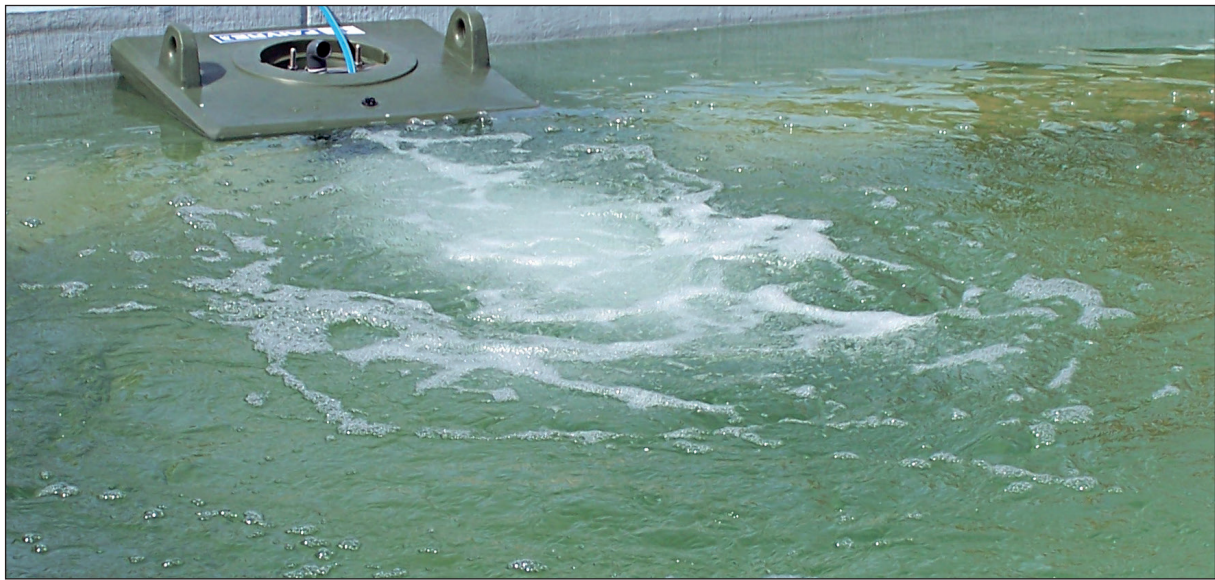
O₂

This floatless device is designed to be fixed on the bottom for deep mixing and aeration. Also, it is fully concealed.



**NEW
POWER RATING**

AQUASUB	0.5hp	1hp	2hp	3hp	5hp
Motor power (kW)	0,37	0,75	1,5	2,2	4
Treated water output (m ³ /hr)	200	300	550	750	1200
Production of O ₂ (kg O ₂ /hr)	0,5	0,8	1,7	2,6	4
Area of activity* (m)	30	50	70	100	120
Dimensions W x L x H (m)	0.5 x 0.5 x 0.6	0.9 x 0.9 x 0.7	0.9 x 0.9 x 0.7	0.9 x 0.9 x 0.7	1,4 x 0.8 x 0.6
Weight (kg)	29	30	33	35	63
Part nos. *220 V single-phase / 50 Hz	APQH 0051	APQH 0101	APQH 0201	APQH 0301	-
380-415 V three-phase / 50 Hz	APQH 0053	APQH 0103	APQH 0203	APQH 0303	APQH0503



WORKING

A special vacuum turbine with a speed of 3000 rpm is fitted at the end of the motor shaft. The air coming in through the guiding tube is taken in at the centre of the propeller as a result of the Venturi effect. The air mixed with water is diffused in the form of micro-bubbles in the water current created and directed towards the bottom. The quantity of oxygen transferred is maximised, as the micro-bubbles stay in the volume of water moved for a very long time.

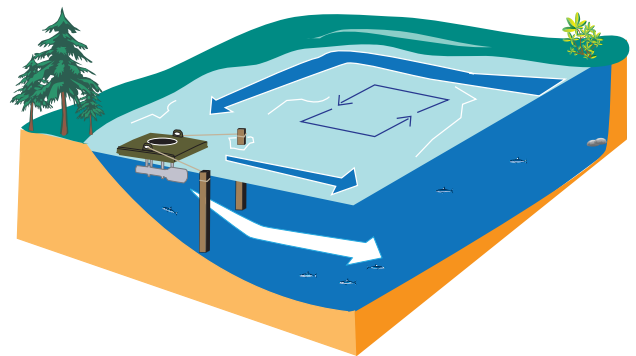
A COMBINED CONCEPT

The **AQUASUB** technique: a guarantee for proper-working and high efficiency (transfer of O_2 : 0.35 kg per kW consumed)

The **AQUASUB** aerators were developed in our factory over twenty years ago and are compact floating devices. They run on electricity: the supplied submarine cable is used to connect them to the source of power on the shore. The device is securely with regular ropes.

The specific working of this aerator makes it possible to combine **aeration** and **mixing**. The movement of the water mass maximises contact with the air in the atmosphere. At the same time, air is injected in the water so as to transfer 0.35 kg/ O_2 to the aquatic environment for each kW consumed.

The two types of aerators, FLOBULL and AQUASUB **maybe used in combination** on a single body of water to form an effective system: AQUASUB makes the water circulate, whilst FLOBULL oxygenates it.



Pictures & technical data are not contractual . Faivre Sas can bring any modification to its equipments at any time.