

Self-Priming Agitator Aerator

AQUAOX TYPE



Manufacturing
water treatment
solutions.

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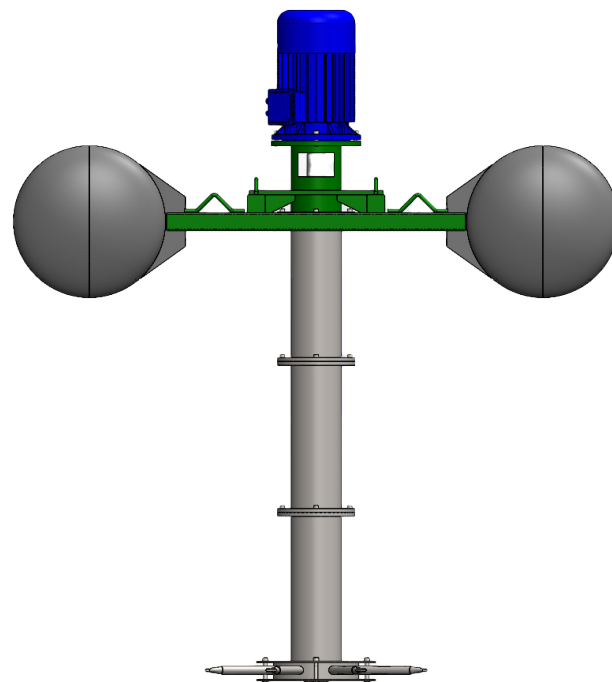
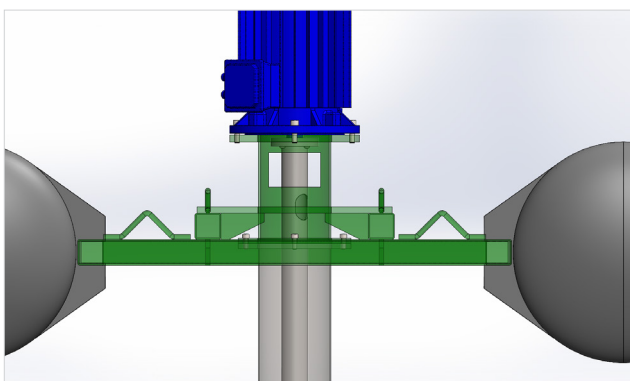
Self-priming agitator aerator with vertical motor for installation on a floating structure, operating through the negative pressure effect created by the suction of a centrifugal turbine.

APPLICATIONS

AQUAOX series floating agitator aerators are designed for mixing and aerating wastewater containing a significant percentage of organic matter. They are also used for the homogenization and aeration of water bodies or effluents. Faster to install and easier to maintain than fine bubble air diffusion systems, they are mainly used in lagoons and water bodies, or in sewage treatment plants as a supplement to existing solutions.

PRINCIPLE

- The aeration system adopted in our agitators is based on the negative pressure effect achieved at the inlet of a centrifugal turbine.
- The innovation in our aerator lies in the fact that the transmission shaft is hollow, allowing both air to be drawn directly into the compression chamber without additional energy input and ensuring simultaneous rotation of the shaft.
- Floating agitator-aerator, allowing it to adapt to water bodies with varying levels.



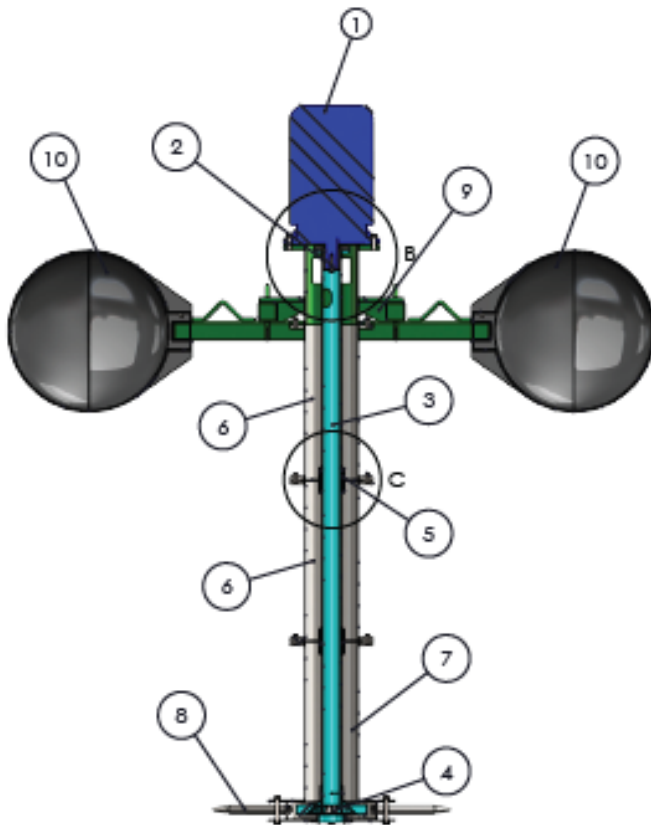
FEATURES

- Agitator-aerator providing intense oxygenation through vigorous mixing (turbine rotation speed around 1450 rpm).
- Allows deep aeration and easy access to the bottom of poorly oxygenated basins.
- Immersion depth is ensured by the transmission column capable of reaching depths of 5m.
- Low noise emissions.
- Ambient temperature up to 50°C during continuous operation.

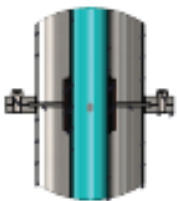
MOTOR

- Equivalent or superior to premium efficiency IE3,
- Three-phase squirrel cage motor, 380 V, 50 Hz, 4 poles (1450 rpm)
- Protection rating: IP 55
- Stator insulation class: Class F
- Starting method:
 - 1.1 - 3 kW = Direct On Line (DOL)
 - 4.0 - 11.0 kW = Star-Delta (Y/Δ)
- Duty cycle: S1

Matériaux



N°	Designation	Material
1	Motor casing	Aluminium
2	Coupling	Treated steel or stainless steel 316L
3	Hollow shaft	Stainless steel 316L
4	Turbine	Stainless steel 316L
5	Bearing	Self-lubricating bronze
6	Riser column	Stainless steel 316L
8	Diffusers	Stainless steel 316L
9	Plateform	Galvanized steel with epoxy paint or Stainless steel 316L
10	Floats	HDPE (High-Density Polyethylene)
	Fasteners	Stainless steel A4



Détail C

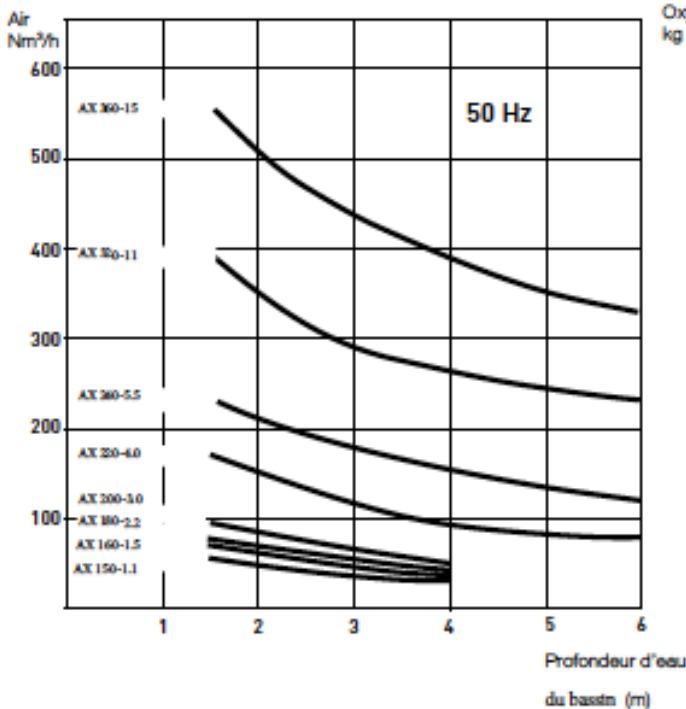


Détail B

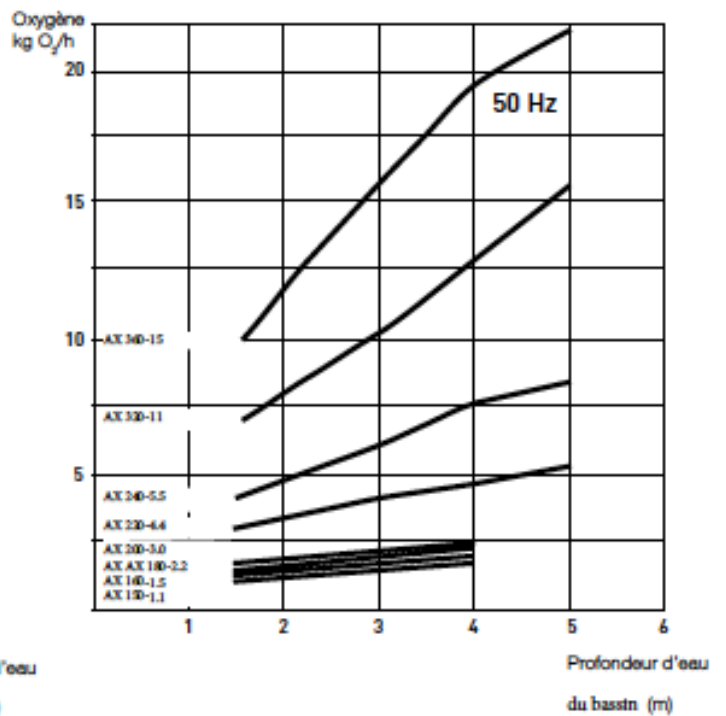
TECHNICAL SPECIFICATIONS

Aerator AQUAOX Type	Motor	Power (kW)	Amperage IN (A)	Rotation speed (RPM)	Air input at 2m depth (Nm ³ /h)	Immersion depth (mm)
AX 150-1.1	ME11/4	1,1	2,6	1420	50,00	500 à 3000 mm
AX 160-1.5	ME15/4	1,5	3,7	1430	70,00	500 à 3000 mm
AX 180-2.2	ME22/4	2,2	4,7	1430	75,00	500 à 3000 mm
AX 200-3.0	ME30/4	3	6,5	1440	90,00	500 à 3000 mm
AX 220-4.0	ME40/4	4	8,1	1440	155,00	500 à 5000 mm
AX 240-5.5	ME55/4	5,5	10,9	1455	205,00	500 à 5000 mm
AX 280-7.5	ME75/4	7,5	15,1	1450	270,00	500 à 5000 mm
AX 320-11	ME110/4	11	21,1	1465	340,00	500 à 5000 mm
AX 360-15	ME150/4	15	28,7	1460	500,00	500 à 5000 mm

Performance débit d'air aspiré



Performance transfert d'oxygène





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