

OxyStar[®]

Aspirating Aerator



AQUA-AEROBIC SYSTEMS, INC.

A Metawater Company

OxyStar®

Aspirating Aerator

The OxyStar® aspirating aerator is used in municipal and industrial wastewater applications to introduce oxygen into lagoons, equalization basins, aerobic digesters, sludge holding basins, and/or activated sludge systems. The unit provides efficient fine-bubble aeration and thorough circulation and mixing of basin contents. OxyStar aerators are an ideal solution for upgrading, retrofitting, supplementing, or replacing under-performing aeration technologies.

Features and Specifications

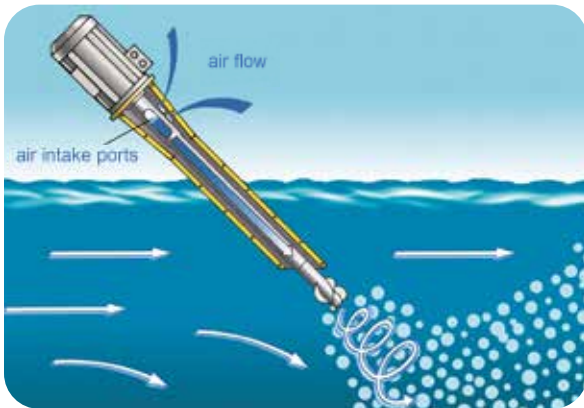
- No submerged seals or bearings to maintain
- Engineered three-bladed 316Ti ss spiral self-cleaning propeller for maximum efficiency and consistent high performance
- Durable pontoons with 304 ss framework
- Robust design for easy installation
- Available in 3 – 30 HP (2.2 – 22 kW)
- Float and bridge mounting options for flexible installation in any basin



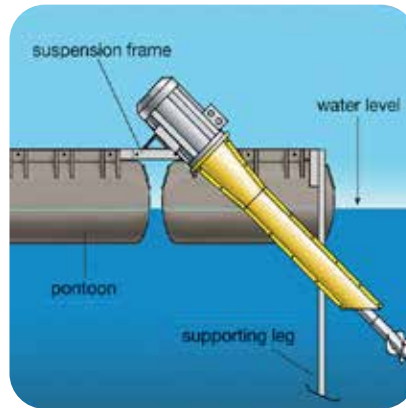
OxyStar® Aerators in Morocco - Aerated Lagoon

How it Works

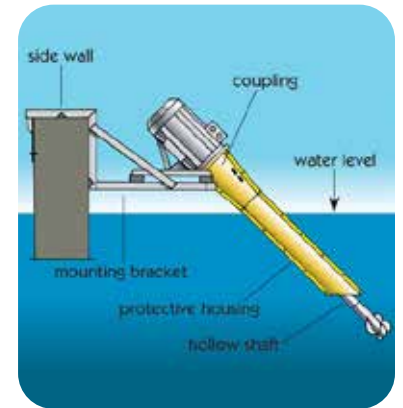
OxyStar aspirating aerators mix and oxygenate water by rotating a submerged propeller. As the propeller rotates, it creates a low-pressure zone beneath the surface of the water. The pressure gradient aspirates air through the hollow shaft, discharges it into the water, and the turbulence created by the propeller shears it into fine-bubble aeration.



Mechanism of Aeration



Flotation Mount



Wall Mount

Benefits

- Efficient oxygen transfer
- No aerosolizing or misting
- Negligible noise level
- Nearly universal installation into any basin
- Can be installed without dewatering or taking a basin offline
- Minimal maintenance
- No blowers, air piping or covers
- No underwater parts to maintain



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The information contained herein relative to data, dimensions and recommendations as to size, power and assembly are for purpose of estimation only. These values should not be assumed to be universally applicable to specific design problems. Particular designs, installations and plants may call for specific requirements. Consult Aqua-Aerobic Systems, Inc. for exact recommendations or specific needs. Patents Apply.