OxyStar®

Aspirating Aerator

AQUA-AEROBIC SYSTEMS, INC.
A Metawater Company

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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.

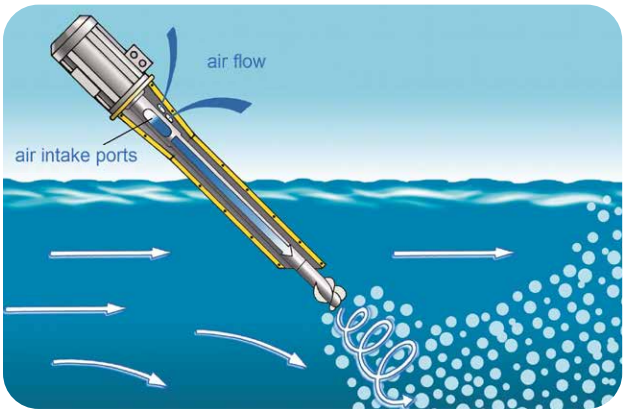
Features and Specifications

- Robust materials of construction, consisting of 304 stainless steel and hot-dipped galvanized steel
- Self-cleaning propeller ensures consistent high performance
- Engineered three-bladed spiral propeller for maximum efficiency
- Durable pontoons with galvanized framework
- Robust design for easy installation
- No submerged seals or bearings
- Available in 3 – 30 hp. (2.2 – 22 kW)
- Float and bridge mounting options for flexible installation in any basin
- Optional weir for re-entrainment of surface foam

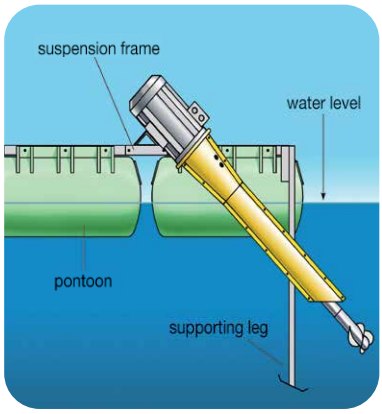
OxyStar® Aerators in Operation

How it Works

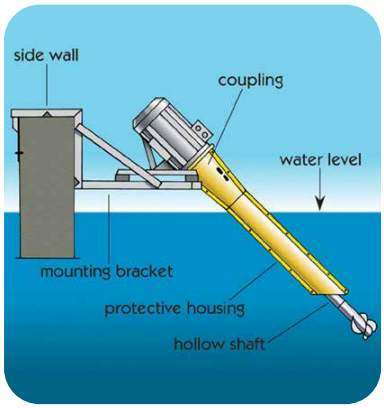
OxyStar aspirating aerators mix and oxygenate water by rotating a submerged propeller. As the propeller rotates, it creates a low-pressure zone beneath the surface of the water. The pressure gradient aspirates air through the hollow shaft, discharges it into the water, and the turbulence created by the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