



FRESHWATER AERATION



Fresh water bodies often suffer from a lack of oxygen, resulting in heavy algae growth that can kill fish populations, ruin the aesthetic value, and ultimately eradicate a lake or pond. Fluence offers a line

of freshwater aeration products designed to oxygenate freshwater bodies, returning the water to a naturally healthy and visually pleasing state.

Aqua TORNADO® Surface Aspirating Aerator

Effective in all seasons, the addition of an Aqua Tornado to a lake or pond can dramatically improve the quality of water and can maintain large ice-free areas during winter operation. Fluence's Aqua Tornado is designed to provide both aeration and mixing, assisting the natural aquatic rejuvenation process by increasing dissolved oxygen levels— providing needed circulation, and maintaining aerobic conditions throughout the water, controlling algae and foul aquatic odors and preventing fish kills.

This self-contained unit requires no additional blowers, pumps, or mounting platforms. It features water-lubricated lower bearings for use in water reservoirs and lakes where grease-lubricated submerged bearings are prohibited. The Aqua Tornado is ideally suited for water bodies ranging in depth from 4 to

15 feet (1.2- 4.6m) and can be used alone or in groups. It is lightweight and easily installed to begin treatment immediately. Decorative, lightweight, simulated rock covers are available to blend the aerator into the natural surroundings.

The Aqua Tornado injects air into the water at a high velocity at the open propeller hub. The turbulence and flow created by the propeller breaks-up the air bubbles, mixes, and disperses oxygen over a wide area. The horizontal water movement greatly limits algae growth, while stimulating decomposition of organic wastes and runoff nutrients from surrounding green areas. Aeration quietly occurs just below the surface with no spraying or splashing, reducing odors. Available in 2 and 3 horsepower (1.5 and 2.25kW) units at 50 or 60 Hz.



Submersible Aerator

Fluence's submersible aerator is an ideal solution for oxygenating ponds and inlets with water depths from 18 inches to six feet. The submersible aerator is designed to sit on the bottom of the pond and does not require anchoring. A pump draws air from above the water's surface and injects it through a specially designed nozzle near the pond bottom.

An internal pump moves the water through a venture nozzle. High velocity water within the nozzle creates a low-pressure zone that draws air from above the water's surface through an air intake hose. Water is mixed

with the air within the nozzle. The turbulence caused by the moving water shears the air into tiny bubbles, which are effective for oxygen transfer. The water/air mixture is discharged from the nozzle horizontally, causing horizontal circulation, destratification and aeration. The submersible aspirating aerator can be run year-round. In applications where freeze is possible, the aerator can run continuously at a depth below which the water freezes. Units available in 1/2 - 2 HP (0.375, 0.75 & 1.5 kW). Submersible aerators can be operated alone or in groups to provide effective water treatment over a wide area.





AuraAER™ Solar-Powered Fountain

Our solar-powered AuraAER floating fountain is ideal for residential and commercial pond owners who are looking for sun-powered options. The fountain adds aesthetic value to the pond, while it aerates the water to control algae, prevent fish kills, and assists with the natural water revitalization process. A single unit is effective for small ponds of less than one acre; multiple fountains may be used to aerate mid-sized ponds. Requires only 30 inches of water depth. AuraAER fountains are equipped with four different spray patterns which are attached to the unit, so changing the patterns is easy. AuraAER Solar powered fountains are sold fully assembled and require little-to-no maintenance.



Symphony™ Fountains

Fountains provide aeration and beauty to residential and commercial ponds and lakes. The Symphony fountain comes fully assembled with four spray pattern options-- simply rotate a disk to the desired pattern. An optional underwater lighting system is available. The fountain features a high volume, axial-flow, internal stainless-steel pump and submersible motor for ultimate resistance against corrosion and abrasion. The foam-filled float is made from ultraviolet resistant polymer and will not sink even if punctured. An internal pump draws water from below the water's surface and pumps water through a spray nozzle. At the nozzle, water is broken into smaller droplets and sprayed into the air. Atmospheric oxygen is transferred into droplets as they travel through the air and fall back to the water surface. This process encourages destratification, with the mixing of air and water. Oxygen is also transferred to the water's surface due to the turbulence created by the falling water. The Symphony fountain can be moored to ground stakes on land, or to anchors in as little as 30 inches (76 cm.) of water. Requires little to no maintenance. Unit is 1/2 HP (0.375 kW).



Bioforce Bioaugmentation

Nutrient buildup is a common problem in freshwater bodies, caused by years of nutrients feeding the pond or lake through runoff of fertilizers, grass clippings, leaves, and buildup of dead algae. This all-natural, safe and easy-to-use product rapidly digests muck and lowers the organic matter in the water, resulting in cleaner, fresher water. It significantly reduces odor, discoloration, turbidity, surface films, algae, bottom sludge, and pond maintenance concerns.

Fluence's Bioforce Bioaugmentation formula is an all-natural concentrated formula containing naturally occurring bacteria and enzymes. It is especially effective in conjunction with aeration. A simple formula calculates the necessary dosage. Just toss the number of biodegradable bags in the water, and the products starts working immediately. Available in 8-ounce (225 gram) water soluble bags.

About Fluence Corporation Limited (ASX: FLC)

Fluence is a leader in the decentralized water, wastewater and reuse treatment markets, setting the industry pace with its Smart Products Solutions, including Aspiral™, NIROBOX™ and SUBRE. Fluence offers an integrated range of services across the complete water cycle, from early stage evaluation, through design and delivery to ongoing support and optimization of water related assets, as well as Build Own Operate Transfer (BOOT) and other recurring revenue solutions. With established operations in North America, South America, the Middle East, Europe and China, Fluence has experience operating in over 70 countries worldwide and enables businesses and communities worldwide to maximize their water resources.

Further information can be found at <https://www.fluencecorp.com/>.