

A.G.A. AQUA 1

Wind Powered
Aeration and Mixing
Unit Improves the
quality of impounded
water especially in Ponds –
Lakes – Reservoirs.

Without sufficient oxygen the
natural life cycle or ecosystem in
impounded waters will result in problems.
Toxic gasses are released, aquatic wildlife
becomes stressed, fish mortality increases and
water can become foul.

The **A.G.A. Aqua 1** is the solution. The low cost
method of increasing the dissolved oxygen in water.

The A.G.A. Group offers a complete package:

- Testing – Feasibility – Costing
- Delivery
- Installation
- Commissioning
- Accessories (anchors, cables etc.)

Stratification

In the warmer months the surface water warms up faster
than at the lower depths, and a thermocline develops (the
area of significant temperature change). This prevents the
normal migration of oxygen from the surface to the
deeper water.

If the problem persists, a sudden fall in temperature
makes the surface water denser, causing it to drop to the
bottom.

Oxygen starved water rises to the top and with it the
toxins that can cause fish mortality and odours.

Oxygen depletion can be caused by the
accumulation of excess organics from run-off – fish
waste – dead vegetation – food remains from the
feeding of ducks and other fowl – plus other
pollution sources. An Aqua 1 wind-powered
aerator/mixer will maintain a biological and
sustainable balance for the natural ecology to keep
water clear.

Aqua 1 operation:

- Unit works in light winds (from 5 mph).
- It needs no power.
- It works to almost any practical depth.
- One unit can condition up to 2ha. of water.
- Chemicals are not required.
- Operation is free from noise or nuisance.
- Only a minimal annual maintenance check is
advised.



Concept to Completion

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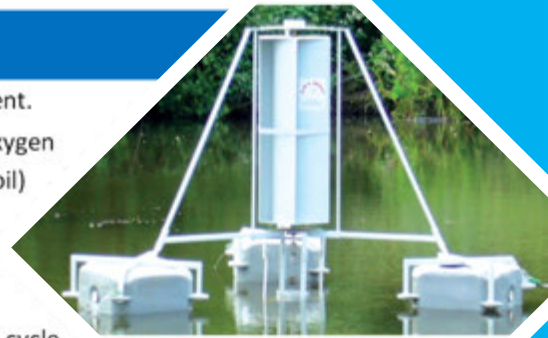
A.G.A. AQUA 1 AND WATER QUALITY.

Whatever the intended use, good water quality is only achieved through good management. Without deep circulation a body of water can thermally stratify depleting the dissolved oxygen content in the water. Even shallow waters are affected and the bottom mud (the hydra-soil) can become oxygen deficient resulting in anaerobic bacterial activity, this causes toxic gases to be released.

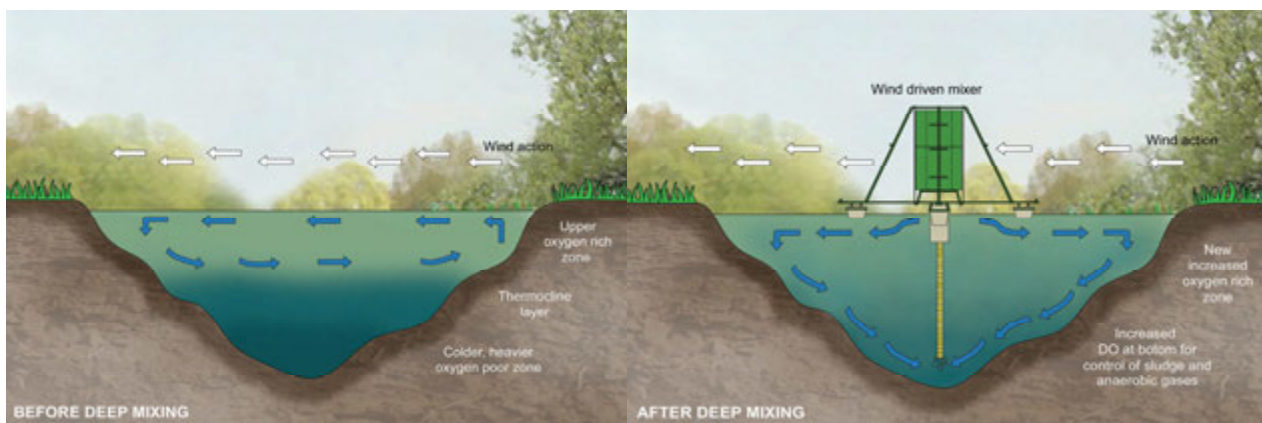
The lack of oxygen stops many life forms from biologically breaking down waste products in the water. This results in toxins failing to be absorbed naturally through the aquatic life cycle of the pond.

Deep circulation is the solution provided by the Aqua 1. This wind powered mixer greatly increases the natural aeration process, significantly increasing the oxygen transfer rate, by bringing oxygen depleted water from the deep, to the surface, to absorb atmospheric oxygen.

Within a very short time the bottom dissolved oxygen levels will be completely restored, helping to keep the water clear and healthy.



The A.G.A. Aqua 1 Wind Powered Mixer in service.



WATER BODY MANAGEMENT FOR:

- Fishing lakes
- Agricultural holding ponds
- Golf courses
- Decorative ponds
- Industrial holding ponds
- Irrigation Reservoirs
- Balancing ponds
- Discharge water polishing – and, as a component of:
- Water treatment and waste water treatment systems

.GOOD QUALITY WATER:

- Minimises fish mortality
- Stops algal blooms including blue/green algae
- Prevents toxic build-up
- Avoids deleterious gasses
- Eradicates odours
- Eliminates surface scum
- Reduces sludge accumulation
- Is aesthetically more pleasant within its surroundings

This information is subject to change arising from new developments and findings. If you are unable to find the item you are looking for, please do not hesitate to contact us immediately.

The A.G.A. Group installation teams operate solely within the field of aquatic and bioengineering. We operate a policy of 'Best Practice' and are bound by the Code of Conduct of both the Institute of Fisheries Management and the Society of Biology. The A.G.A. Group will quote for the supply of materials, their installation or for 'turnkey' projects.

A.G.A. is Quality assured to: ISO45001 : 2018, ISO9001 : 2015 & ISO 14001 : 2015

A.G.A. Group, MMG and MHP and AGACES are trading styles of A.G.A. Group Enviro-Fix Limited

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