

# Windmill Pond Aeration

## What is Windmill Pond Aeration

Windmill aeration and pond aeration are terms that more and more pond owners are hearing about from pond consultants. In simple terms – aeration is the process of dissolving oxygen into water – the finer the oxygen bubbles the easier it is for the water to digest the oxygen and the more effective the aeration is for the pond.

## How Windmill Pond Aeration Works

**Windmill Aeration** works by placing air diffusers at the deepest levels of your pond. These air diffusers take the oxygen that is compressed into airlines and carried down into the water to the air diffusers. The air diffusers then turn the compressed air into thousands of fine oxygen bubbles.



As the oxygen bubbles rise up through the water column they trap particulates in the air bubbles and burn off whatever they trap out of the pond. Organic matter, pollutants, saturated sediment, phosphates, nitrates and everything else that is stagnating or depleting the oxygen of a pond is aerated out. Pond aeration helps reduce pond algae and offers pond algae control by reducing the amount of nutrients available. This helps eliminate the need for pond chemicals.

Consistent pond aeration activity eventually cleans up or maintains the health of a pond and prevents the pond from stagnating over time.

Nowadays with so many pollutants and other matter entering a pond body – not to have an aeration system is almost guaranteed to reduce the health of a pond and facilitate the growth of pond algae, weeds and stagnation.

## **Types of Pond Aeration**

There are a number of different ways that you can aerate your pond. The two primary methods are through electric pond aerators and windmill aeration.

The obvious advantages of using windmills to aerate ponds are:

- Windmills do not require electricity to operate them
- Windmills are extremely reliable and long lasting
- Windmills are cost effective

[Outdoor Water Solutions Inc.](#) has the longest warranty in the windmill aeration market with an industry leading 5 Yr warranty. Learn more about the windmills and the warranty programs from Outdoor Water Solutions Inc.