



# Effective Pond Management

## The EasyPro Approach

Years of experience has taught us that three main tools are needed to effectively manage ponds and lakes:

1

### Aeration

For years, aeration was thought of as something you only needed if you had a high fish load in a pond. Through decades of working closely with pond owners, it has been proven that aeration does far more. In fact, we consider aeration to be the single most important step in maintaining a healthy pond. Diffused aeration systems increase the natural levels of oxygen in ponds by delivering oxygen to the pond bottom where it's needed the most.

2

### Beneficial Bacteria

The older a pond gets, the poorer the water quality. Beneficial bacteria helps reduce the muck (sludge) build-up on the bottom that occurs when fish waste, leaves, dead weeds/algae, runoff, etc. start to build up. The results: improved water quality, reduced odors, improved oxygen levels and a better environment for aquatic life.

3

### Aquatic Weed and Algae Controls

Algaecides and herbicides are a safe and quick way to gain control of a pond that is infested with aquatic weeds or algae. These products are a good short term solution, however, the combination of aeration and beneficial bacteria is a more effective, non-chemical way to gain long-term control.

***EasyPro can help you get the results you're looking for!***

# 1

# Diffused Aeration

“The “engine” that drives everything within a body of water is the presence of oxygen in proper levels.”

Installing diffused aeration in your pond or lake is the single most valuable water management and water maintenance strategy you can implement. The “engine” that drives everything within a body of water is the presence of oxygen in proper levels. The movement of oxygenated water from the bottom up provides a long list of benefits to your water. Ponds and lakes age – the older a body of water, the higher the organic muck load and the higher total oxygen demand (TOD).

**Diffused aeration gets to the heart of the matter!** Oxygen is supplied by an on-shore compressor and delivered through tubing to diffusers placed on the pond bottom. The diffusers produce a “boiling” action of air bubbles (no, it’s not hot) that supplies the much needed oxygen exactly where it’s needed most.

## What Aeration Does...

	Stratified without Aeration	De-stratified with Aeration	
<ul style="list-style-type: none"> <li>• Warm, typically oxygen-rich</li> <li>• Recurrent surface scum</li> <li>• Floating weed masses</li> </ul>			<ul style="list-style-type: none"> <li>• Uniform temperatures</li> <li>• Uniform oxygen levels</li> <li>• Fish can use the entire pond all year long</li> <li>• Improved water clarity</li> <li>• Reversed aging effects</li> <li>• Improved natural pond bacteria populations</li> <li>• Improved fish habitat</li> <li>• Less organic material accumulation</li> <li>• Protection from winter and summer fish kills</li> <li>• An enhanced pond ecosystem</li> <li>• Reduced surface scum build-up</li> <li>• A better swimming and recreation area</li> </ul>
<ul style="list-style-type: none"> <li>• Zone of decreasing water temperature</li> <li>• Zone of decreasing dissolved oxygen</li> </ul>			
<ul style="list-style-type: none"> <li>• Zone completely void of oxygen</li> <li>• Cold water temperature</li> <li>• Accumulating organic muck</li> <li>• Weeds prevalent</li> <li>• Unusable by fish and all aerobic organisms</li> </ul>			

## Choosing the Right Diffused Aeration System

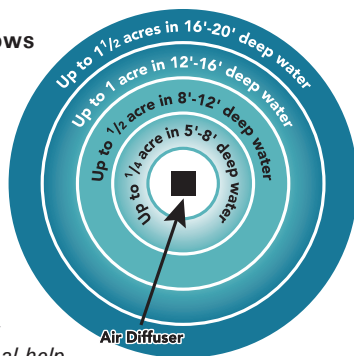
The amount of surface area a system will effectively cover is greatly dependent on two factors - depth and shape.

**Depth** The diagram to the right shows how much surface area is effectively aerated per air diffuser at various depths:

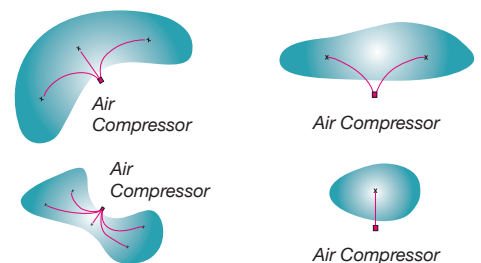
**Example**

Our PA34 pond aerator would aerate only 1/8 of an acre if operated in 4' deep water, while aerating up to 1 1/2 acres if operating in 16' - 20' of water.

Ponds that are irregular or odd shaped will also reduce size of aeration area — call our technical assistance department for additional help.



**Pond Shape** affects the number of diffusers needed. Irregular shaped ponds require multiple diffusers to adequately aerate the entire water body.



The deeper an air diffuser is located, the more “boiling action” it will create and a larger area will be aerated.

Unique shaped ponds & lakes require more diffusers to cover the same surface area.



## Basic Systems

Basic aeration kits provide all the necessary components to aerate a pond. A compressor, tubing, diffuser(s) and fittings are sized to work together for a fully functional system. These kits will require additional weather protection for the compressor, but the kit as a whole provides a complete system.



## Deluxe Systems

Deluxe aeration kits provide all the components of the basic kits and include the mounting of the compressor in a deluxe cabinet.

These systems are known as Sentinel Deluxe Aeration Systems. Sentinel systems are designed for convenience and reliability.



## Customized Systems

Custom systems are our specialty! When one of our many standard systems doesn't fit your application, we can build a custom system to meet your exact needs. The type of compressor, number of diffusers, size/length of tubing and cabinet options are all able to be adjusted based on your needs. We welcome the opportunity to create systems for unique and challenging applications!

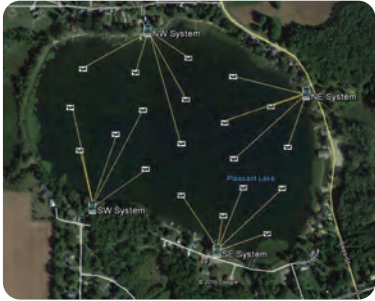


## Google Earth Designs

We design complete aeration systems for a wide range of ponds. If you are unsure which one is best for you or if you have unique requirements please send us your information and we will prepare a Google Earth layout for you. We need from you:

1. Physical address (Newer ponds may not yet be visible on Google)
2. Depth of pond - important for determining diffuser locations
3. Where power is available and what type of power (115v/230v)

Fill out our online Aeration System Request form (under the Resources tab at [easypro.com](http://easypro.com)) or send this information to: [aeration@easypro.com](mailto:aeration@easypro.com) and we will be happy to design a system for you!



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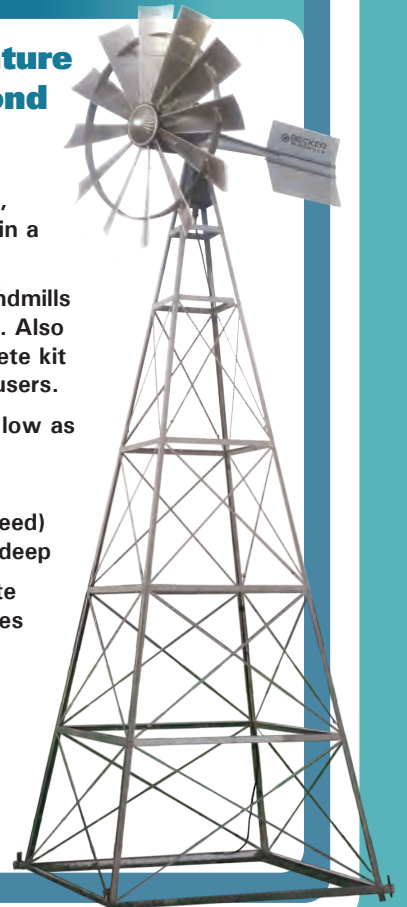
## No Power? No Problem!

**Becker Windmills** are the perfect solution for remote ponds, whether they're on the back 9 or the back 40.

### Let Mother Nature aerate your pond

Becker Windmills can save you \$30-\$50 per month in electric costs, paying for themselves in a few short years.

- 12', 16' and 20' windmills include compressors. Also available as a complete kit with tubing and diffusers.
- Operates in wind as low as five miles per hour
- Produces 2.4-5 cfm (depending on air speed) for ponds up to 40' deep
- Can effectively aerate ponds up to two acres depending on shape and depth
- Can sit up to 1000' away from pond's edge



# 2

## Beneficial Bacteria

For nearly four decades we've used beneficial bacteria to help Mother Nature keep waters clean and clear. The use of natural bacteria to help reduce sludge build-up is widely used and embraced because **it's safe and it works!** These enzyme producing bacillus bacteria strains break down organic waste that has accumulated along the pond or lake bottom. When used with aeration, to ensure adequate oxygen levels along the bottom, EasyPro pond bacteria have proven themselves effective for:

“...help Mother Nature keep waters clean and clear”

- Reducing sludge (muck) buildup
- Eliminating pond odors
- Reducing oxygen demand
- Eliminating excess nutrients
- Improving water quality

*Safe for fish, family and animals.*

*Available in easy-to-apply water soluble packets or in pellet form for treating in select areas.*



**Pond-Vive**

The natural, biological way to improve water quality and revive your pond



**Sludge Remover**

Great for spot-treating around docks, beaches or partially treating large ponds

# 3

## Aquatic Weed & Algae Controls

There are a wide variety of treatment products available to safely control aquatic weeds and algae in ponds and lakes. These tested and approved products are a safe and quick way to gain control of waters that are infested with aquatic weeds and/or algae. The use of these products is a good **short term solution**. To gain long term control, you should look at the overall ecosystem and determine the source of the problem. Often aeration and/or the use of bacteria will greatly improve the system and the use of aquatic weed and algae controls can be reduced.

“...A quick way to gain control of waters that are infested by aquatic weeds or algae.”



### EasyPro Pond Dyes

A common part of an overall pond maintenance program. Apply directly into the pond and, upon complete dispersal, these dyes are non-staining and fish, pet, wildlife and family safe. There are no water restrictions associated with the use of pond dye.

- Nontoxic and harmless
- Waters can be used for swimming and irrigation once product is dispersed.
- Compatible with most aquatic herbicides and algaecides



EasyPro Pond Products are proudly distributed by



11073 Peach Ave.  
Grant, MI 49327  
800-448-3873  
stoneycreekequip.com

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