



# **Aeration • Fountains Pond Products**



**Vertex Water Features**  
*Lake Aeration Systems & Floating Fountains*



# Why Vertex?

## COMMITMENT

As the technology leader in lake aeration systems and custom floating fountains, we are driven by a commitment to providing the highest quality, environmentally sound products for the market .



## REPUTATION

A division of Aquatic Systems, Inc., our professionals have been supplying superior fountains and aeration systems for 30 years.

From custom floating fountains as large as 60hp to aeration systems designed specifically for your lake, Vertex Water Features has earned its reputation by attention to detail and customer satisfaction.

## RESULTS

New products begin in research and development, go through extensive production, inspection, installation and testing to ensure our products meet your specific needs for healthier, more beautiful lakes.

# Diffused Aeration

Lakes that are 'stratified' have increased bottom muck, excessive nutrients, plant/algae growth, and noxious gases. Our advanced diffuser design forms an ultra-wide column of upward moving water, "turning the lake over" and allowing oxygen to be absorbed at the surface. Let us design the system to meet your lakes specific needs.

## QUALITY & PERFORMANCE

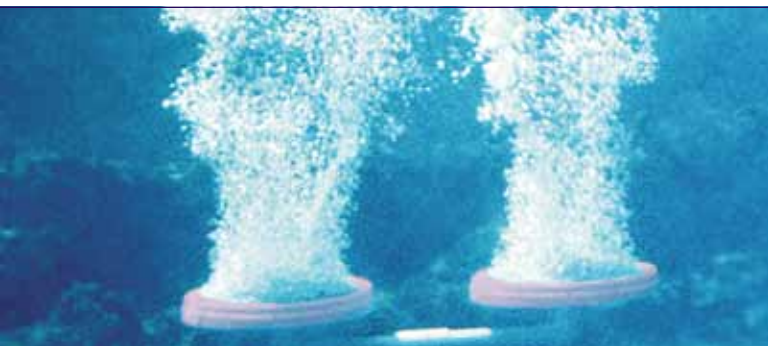
- ◆ ETL Certified: our product meets electrical safety codes
- ◆ Independent testing of circulation rates: proven results
- ◆ High efficiency compressors and diffusers provide higher lifting rates with lower power consumption
- ◆ Self-cleaning diffusers, easy to replace filters, extended compressor service intervals

## SERVICE & SUPPORT

- ◆ Free aerial mapping, aeration specifications and design
- ◆ Free comprehensive performance calculations including pumpage, CFM, PSI and turnover rate
- ◆ Largest selection of compressor systems and diffuser models
- ◆ Degreed staff knowledgeable in aquatic biology, limnology, fisheries sciences and lake management
- ◆ National network of qualified, experienced distributors providing local support, service and expertise.

## DEPENDABILITY

- ◆ Diffuser Assembly: **5-year Warranty**
- ◆ Compressors: **2-year Warranty**
- ◆ Cabinets: **Lifetime protection** against rust
- ◆ Tubing: **15-year Warranty**





## MEMBRANE<sup>3</sup> DIFFUSERS

- ◆ “Delta” surface pattern increases active surface area and aeration efficiency during low and moderate air flows
- ◆ Proprietary membrane is flexible and wear and clog resistant
- ◆ Stronger diffuser body, membrane backing plate and diffuser ring improves service life
- ◆ StableTrak™ technology increases lift velocity
- ◆ FlowControl™ technology equalizes airflow to each disk
- ◆ Base unit has a hollow chamber for adding inert ballast
- ◆ Lipped base prevents diffuser from settling into soft sediments

Vertex Diffuser Models Categorized by Lifting Rate GPM (Gallons Per Minute) and Water Depth. Air flow = 1.0 CFM (Cubic Feet Per Minute) per disk



Lifting rate data represents total water flow as recorded in both independent testing and real world data collected by Vertex from installed aeration systems. Lifting rate varies significantly by air flow, water depth and other factors. \* XL8 lifting rate extrapolated from field collected XL5 data.

# QUIETAIR CABINETS

- ◆ SafeStart™ technology for full pressure restarts
- ◆ Powder coated aluminum for a more durable, attractive finish
- ◆ Larger cabinets have redundant cooling systems with ventilation grill and high capacity fans
- ◆ Easy design with lock and key
- ◆ Heavy duty, light-weight mounting pad included
- ◆ QA4 has Integrated cabinet muffler for quieter operation



# BROOKWOOD COMPRESSORS

- ◆ Highest flow rate of any compressor in its class
- ◆ Available in 115V 60 Hz or 220V – 240V, 50/60 Hz
- ◆ Oil-free – requires no lubrication
- ◆ 2 – 4 times the duty cycle of other compressors
- ◆ Thermal overload protection
- ◆ Superior piston design provides higher pressure, quieter operation and longer life than vane compressores

# CUSTOMIZATION

Every lake has its own unique characteristics and challenges, Vertex can provide a wide number of modifications to meet your needs or requirements.

- ◆ Remote Valve Box for ponds without closely located electricity
- ◆ Sound Kits for areas where quiet operation is most critical
- ◆ Systems that combine various diffuser combinations

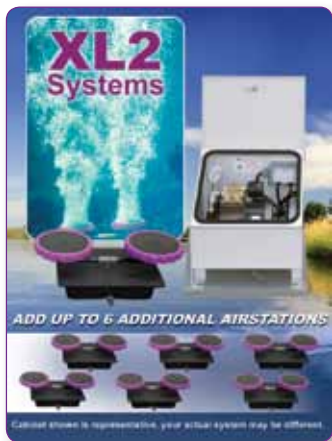
I've had Vertex aeration systems in three of my lakes for quite a while now. Vertex systems provide a beneficial and cost effective method of improving both the water quality of a lake and its overall health.

*I highly recommend them!*

*Bill Dance*



# Our Most Popular Aeration Systems



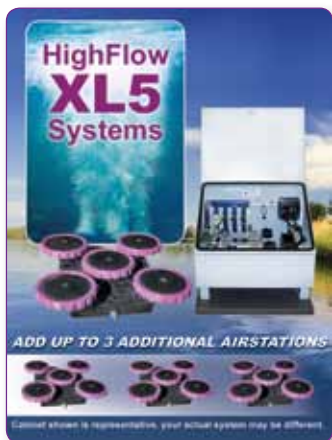
## **XL2SW™ & XL2™ Systems**

For 4' to 20' depths



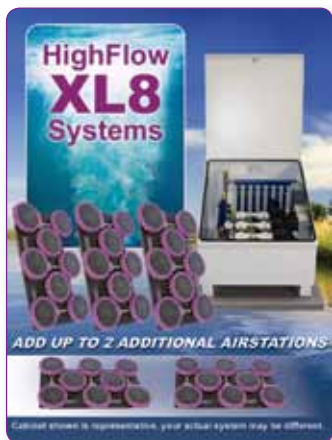
## **XL4™ Systems**

For depths 16' and deeper



## **XL5™ Systems**

For depths 8' and deeper



## **XL8™ Systems**

For depths 20' and deeper

# MICRO•LYFE

NATURAL ~ SAFE ~ EFFECTIVE

Bioaugmentation and aeration were made for each other. By supplementing aeration with additional types of bacteria and accelerating enzymes, you speed the nutrient, muck, and odor reduction benefits of aeration.

Improve and maintain the health of your pond or lake ecosystems

**CONCENTRATE**  
FOR POOR WATER  
QUALITY AND ODORS

Install or restart a lake aeration system. Lake has nitrates greater than 1ppm or a rotten egg smell.

**COMPLETE**  
FOR POOR WATER QUALITY,  
ODORS AND HIGH NUTRIENTS

Muck buildup, is black, flocculant, or full of organic sediments.

**SLUDGE CLEAR**  
BIOSTIMULANT FOR FASTEST  
SLUDGE & MUCK REDUCTION

Lake has leaves, needles, wood, or other significant plant matter on the bottom

**DIGESTER**  
ASSISTS IN THE BREAKDOWN  
OF HEAVY BOTTOM SOLIDS

Lake has a history of bottom algae growth. Unattractive Water color.

**BLUE POWER**  
LAKE COLORANT WITH  
BENEFICIAL ENZYMES

Lake has a history of algae scum on the shoreline.

**BARLEY BOSS**  
FOR LOW ORGANIC,  
HIGH NUTRIENT LAKES

# Floating Fountains

## CUSTOMIZATION

The industry source for custom floating fountains, Vertex can provide a wide number of modifications to meet your needs or requirements.

- ◆ Displays: angle of jets, size/number of jets, custom displays and more
- ◆ Lighting: colored lenses, color changes, etc.
- ◆ Controls and Operation: wind sensors, remote controls, multiple fountain operation, etc.

## PERFORMANCE

### Pumps

- ◆ UL listed, high performance turbine pump/motor assembly
- ◆ Stainless steel construction
- ◆ Water cooled: no oils, seals or o-rings to replace, or "Maintenance Kits" to buy

### Nozzles

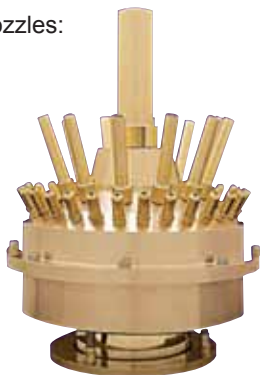
- ◆ Precision machined brass/bronze nozzles: no inferior plastics/PVC

### Controls

- ◆ UL listed

### Flotation

- ◆ Rotocast polypropylene construction
- ◆ UV inhibitors for long life
- ◆ Individual leveling compartments



## RELIABILITY

- ◆ Assembly: 4-year Warranty
- ◆ Lights: 2-year Warranty
- ◆ Controls: 1-year Warranty

# Our Most Popular Fountain Models

Most lake fountain projects begin with one of our most popular designs and are customized from there. These 10 models show a solid representation of what you can expect to see when your fountain is designed, built and installed.

## AERATIONJET™

Combining majestic heights, graceful arches and superior wind resistance, the AerationJet™ is the ideal overall water feature with heavily aerated jets reaching 50' high and spreading to 60' diameter. These fountains provide a dramatic effect to any lake.

(Available from 5 hp – 30 hp)



## FANJET™

An impressive water feature sure to be the focal point on any site, this series brings the versatility of a center display and a side pattern of numerous fans. The bold height and delicate arching fans blend to create a beautiful look for any lake.

(Available from 10 hp – 30 hp)



## TRITIER™

One of our most delicate and aesthetic displays offered. The dramatic 3-tier pattern, with its floral arches created by all brass precision machined nozzle and swivel base (available on 5HP and above nozzles) is available in heights from 15' to 46'.

(Available from 1 hp – 15 hp)





## TWOTIER™

The wide spreading display of this series creates a broad feature that will beautifully fill any lake scene. The all brass display head produces heavier floral sidejets that arch up and out, making it a highly visible pattern in both daylight and when lit at night.

(Available from 1 hp – 15 hp)



## GEYSERJET™

Create a strong statement with the white and frothy activity of this series. Its heavy, wind-resistant display is highly visible during the day and a dramatic focal point at night when illuminating its dense, aerated pattern.

(Available from 1 hp – 20 hp)



## MULTIGEYSER™

A massive and dense pyramid of active and frothy water, these fountains offers a highly wind-resistant display featuring a single large center nozzle surrounded by numerous smaller ones – each highly aerated for visibility and dramatic illumination.

(Available from 10 hp – 30 hp)



## TRIGEYSER™

The three heavily aerated, conical displays of this series create an impressive pyramid of water. The height proportions can be varied by the adjustment of valves regulating each display nozzle, allowing on site modifications.

(Available from 10 hp – 30 hp)

## RINGJET™

This series offers the perfect combination of maximum heights and delicate mass. The center display is accented by our custom red brass spray ring, creating a graceful outward arch of water in a tulip-like pattern.

(Available from 2 hp – 15 hp)



## TRIPOD™

Three progressive columns of frothy water, each 8" in diameter, create this unique series. The height proportions can be varied by the adjustment of valves regulating each pod, allowing on site modifications.

(Available from 10 hp – 30 hp)



## FUNNELJET™

A powerful, yet elegant, display creating a very wide ring of sparkling water. This series offers a low profile pattern for applications where a water feature is needed but height is not desired.

(Available from 1 hp – 10 hp)



**Commitment. Reputation. Results.**

Get the **VERTEX**  
Advantage



# Vertex Water Features

*Lake Aeration Systems & Floating Fountains*

800-432-4302 • [www.vertexwaterfeatures.com](http://www.vertexwaterfeatures.com)

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