

The Vertex Air 1 is a super-efficient, affordable and safe system for circulating up to 4,100 GPM. In a typical pond with 8 foot depths, an Air 1 can aerate approximately 2 acres depending on dissolved oxygen demand and other factors. A 1/3 hp piston compressor, housed in a rustproof outdoor cabinet, feeds a bottom mounted CoActive AirStation utilizing Vertex' MicronBubble technology. The majority of bubbles are only 500 to 1000 microns in diameter. As bubble size decreases, oxygen transfer rates increase dramatically. The rising force of millions of

bubbles circulates the entire water column, entraining bottom water up to the surface allowing vital oxygen to be absorbed. Oxygen levels are increased and kept constant throughout the entire lake, preventing drastic O2 swings that can lead to fish-kills. With no electricity in the water, Vertex' aeration systems are safe for any type of water recreation. A self-cleaning CoActive AirStation allows for years of high performance, reliability, low maintenance and is covered under a five-year warranty.

Features:

Coactive Airstation

1. Two 9" flexible membrane discs with MicronBubble technology
2. Self-cleaning, low maintenance, & five-year warranty
3. Rugged EPDM construction
4. One vacuum formed & sonic welded HDPE base unit
5. Hollow design for sand ballast
6. Lipped edge prevents sinking into soft bottom sediments

Brookwood Compressor

1. U.L. listed
2. 1/3 hp for exceptionally low monthly electrical cost
3. Thermal overload protection
4. 115 volt operation
5. One-year warranty

Quietair Cabinet

1. Class A GFCI protection on all circuits
2. Powder coated for durable, attractive finish
3. Heavy duty cooling fan rated at 100 CFM
4. Rustproof aluminum construction
5. Easy plug-in connection to waterside electrical service
6. Equipped with barrel lock for increased security

Bottomline Tubing

1. Self-weighted for easy installation
2. Heavy duty wall thickness (0.24") for durability
3. Available in 100' increments
4. Remains flexible in cold temperatures

Benefits to the lake

1. Air 1 systems circulate the entire water column up to 4,100 gallons per minute depending on diffuser depth
2. Increased dissolved oxygen
3. Stops oxygen related fish kills by raising entire water column oxygen levels
4. Reduces nutrient levels and associated algae growth

5. Ends thermal stratification
6. Improves fisheries by expanding oxygenated habitat
7. Reduces aquatic midge and mosquito insect hatches
8. Eliminates foul odors from undesirable dissolved gases
9. SAFE no electricity in the water and full GFCI protection on all circuits

Specifications: Air 1 Lake Aeration System

BROOKWOOD COMPRESSOR

1/3hp, 115v, 1 phase. Piston type built for continuous operation and equipped with thermal overload protection. Unit shall be oil-free and require no scheduled maintenance other than periodic cleaning of included air filter. Compressor produces 1.6 CFM @ 20PSI. 3.7 running amps @ 115 volt.

QUIETAIR CABINET

Enclosure shall be constructed of aluminum with gray electrostatically-bonded powder coating to provide lifetime warranty against rust. Enclosure shall be equipped with stamped ventilation grill to provide forced air circulation and an integral cooling fan with thermal protection, producing 100 CFM to guard against excessive compressor operating temperatures. Enclosure comes equipped with class A GFCI protection on both the compressor and fan circuits.

COACTIVE AIRSTATION ASSEMBLY

Diffuser station shall consist of two self-cleaning, 9" diameter, flexible membrane diffusers of EPDM compound with 100% rebound memory, each producing millions of fine 500 to 3000 micron bubbles the majority 500 to 1000 microns. Each diffuser station shall be equipped with vacuum-formed HDPE base, sonic spot-welded to provide unit integrity. Base unit (17.25"L x 13.25"W x 3.35"D) shall be of hollow chamber design for the addition of inert pea gravel ballast and have lipped design to prevent settling into soft bottom sediments. AIRSTATION shall be designed with adjustable diffuser riser to accommodate any site requirements.

BOTTOMLINE SUPPLY TUBING

Self-weighted, direct burial submersible tubing for connection from compressor to diffuser stations. Tubing shall be of flexible PVC composite construction for use with standard PVC solvent weld cement and 0.5" insert fittings. Tubing shall have 0.55" I.D. and 0.24" wall thickness for long term durability and protection against punctures. Remains flexible in cold temperatures.