

# AERATION SYSTEMS



Before



After



## SRS HIGH INTENSITY AERATION SYSTEMS

Getting high volumes of oxygen into your pond or lagoon requires more than the traditional compressor based systems you may be familiar with. SRS utilizes industrial grade equipment in all of our aeration systems to provide you with the highest levels of dissolved oxygen possible in an affordable system.

No matter how profound your problem, no matter how high the salt content, the pH, or how many suspended solids, SRS aerator technology will allow you to quickly achieve meaningful results such as the following:

- **Greatly Increase Dissolved Oxygen Levels**
- **Lower pH, Lower Dissolved Salts on Soil and Water**
- **Eliminate Calcium Carbonate in Sprinkler Pipes and Soil**
- **Increase Cat-ion exchange area on soil**
- **Greatly Increase Bio-availability of Fertilizer/Nutrients**
- **Eliminate Lagoon Sediment and Odors**
- **Eliminate Moss Infestations**
- **Eliminate Algae and Algae Blooms**
- **Eliminate Algae in Sprinkler Pipes and Heads**
- **Control Mosquito Population**
- **Eliminate Black Layer Outbreaks**
- **Dramatically Improve Water Percolation/Penetration**

See reverse side for details on the SRS aeration process.



FOR MORE INFORMATION, CONTACT YOUR LOCAL SRS DISTRIBUTOR.



# AERATION SYSTEMS - THE PROCESS



## SRS AERATION PROCESS

### Phase One

The first phase of the process begins with the installation of the SRS Aeration System. The system is made up of a positive displacement blower unit, large diameter self-weighted hose and high SCFM aeration units. SRS custom designs each system exclusively for your lagoon, in order to ensure maximum results. Once the system is in place, a two-week initial aeration process begins. During this process your lagoon will be fed thousands of pounds of oxygen. Oxygen is shattered by the aeration units into millions of tiny air bubbles where it mixes with the water, greatly increasing the concentration of dissolved oxygen. Each aeration unit is capable of diffusing oxygen at a volume of 20 standard cubic feet per minute or more. Within hours, the oxygen will naturally begin to remove offensive odors, and stimulate organic breakdown of materials. After the two-week preparation time has occurred, SRS will initiate the second phase.



### Phase Two

Phase two begins when SRS inoculates the lagoon with an engineered, all natural, aerobic bacteria solution. The aerobic bacteria solution, presented in an oxygen rich environment, rapidly and naturally digests all of the available organic material in the lagoon, including all types of algae, animal waste and suspended material. The aerobic bacteria solution simply expedites Mother Nature's natural process of digesting waste, and because the organic material is broken down by natural enzymes, the pH of the water is greatly reduced and the water becomes naturally fortified with bio-available nitrates and phosphates; the key ingredients in fertilizer. Additional inoculations are performed over the course of the first year of operation to ensure that your lagoon has the balance it needs. At the end of this two-stage process, you are left with a clean, oxygen rich, odor free lagoon, that is full of bio-available natural fertilizers that are ready to be circulated onto crops, nursery stock and golf courses.

### Performance

The SRS Aeration System provides extremely high oxygen transfer rates in all depth lagoons. This feature makes it possible to install aerators in existing lagoons, saving the high costs of reconstruction and deepening depth, as well as minimizing power consumption

### Maintenance

The SRS Aeration System is extremely easy to maintain. It is only necessary to grease the positive displacement blower, change the oil and check the belts once a month! In addition, the system can function year round, 24 hours a day, in any climate.

### Installation

The SRS Aeration System is designed for ease of installation in your existing pump house or as a stand-alone system and can be easily installed in existing lagoons without the need to de-water.

### Cold Weather Operation

No problems with icing due to complete submergence of aeration components. Pumping action and turbulence prevent formation of surface ice.

