

AREA TIMES

A PUBLICATION FOR AREA CUSTOMERS WORLDWIDE

VOLUME 2 2006

WWW.AREAINC.COM

Greetings Valued Customers:

I hope 2006 is off to a great start for you all! There are many exciting things happening at AREA that I would like to bring you up to speed on. The goal at AREA from our upper management to our sales staff to our shipping department is to provide our clients worldwide with the most efficient and cost effective products/systems that also provide the most management flexibility. With this philosophy, we are always researching and developing new products to provide the benefits and opportunities to our clients.

In January of this year, we finalized the acquisition of Key Enterprises to expand and improve upon our line of Aeration Products. With the acquisition, we are now able to streamline our production of our **EZAir Plastic Aquarium Air Valves** and ensure they remain the highest quality air valve in the industry. Since the acquisition, we have also created a new website to feature our EZAir Plastic Aquarium Air Valve which is www.aquariumvalve.com that provides specifications and you can also purchase our valves on-line.

“PROVIDE OUR CLIENTS WORLDWIDE WITH THE MOST EFFICIENT AND COST EFFECTIVE PRODUCTS/SYSTEMS THAT ALSO PROVIDE THE MOST MANAGEMENT FLEXIBILITY!”

As you know, last year we introduced our revolutionary **‘Modern Air’ Air Aerator** with tremendous success in industries from Aquaculture to Golf Courses to Wastewater. Due to the high demand for our aerator, we have also created an additional website at www.modernairaerator.com dedicated to our aerator. This new site will allow our clients, distributors and strategic partners worldwide to have access to

our promotional video and product sheets 24 hours a day, 7 days a week. As mentioned, our promotional video is on-line and can be viewed in various formats.

We are also in the final stage of development for our **Second Generation ‘Pro-Glass’ II Alumina Diffusers**. Our new diffusers are a fine pore diffuser that will produce a “mist of bubbles” and are perfect for Pure Oxygen, Ozone and other uses where a fine pore bubble is required. The advantage of our new diffusers is that they will be available in many different sizes and are cleanable with Muriatic (HCl) Acid or Chlorine. Unlike other fine pore diffusers, our diffusers offer an unlimited life. Our **Second Generation ‘Pro-Glass’ II Alumina Diffusers** will be available in the same sizes as our standard ‘Pro-Glass’ II Fused Alumina Diffusers which are from 1.5” to 12”. Please consult with a representative for information and/or specifications.

We always strive to provide you with the highest quality products with the highest level of customer service. Remember, we provide FREE systems design that allows you to make an informed decision without any initial financial commitment. Always feel free to contact one of our Technical Representatives for assistance.

I want to thank you all for your business and trusting our abilities! As always, we appreciate any suggestions or comments you may have. If you would like to see anything specific published in our newsletter, please forward your comments to info@areainc.com.

Best Regards,

Jason E. Mulvihill

Jason E. Mulvihill
President, **AREA**

CHILLERS
HEATERS
PVC
FILTERS
PUMPS
NETTING
DIFFUSERS
AERATORS
BLOWERS/COMPRESSORS

AREA IN ACTION 34 (SYSTEMS FOR LIVE SEAFOOD AND HOLDING DISPLAYS)

Individuals involved in the sale of aquatic life realize they must have the product live and viable in order to retain customers! The profits realized are contingent on the survival of the products purchased. Thus, the main factor is *What Effects Survival?*

Survival is dependent on two (2) main factors:

- 1/ **WATER QUALITY** (In closed systems, like holding systems, the quality is maintained by external or internal filtration. The filtration units through nitrifying bacteria converts waste products into nontoxic substances)
- 2/ **AERATION** (In closed systems, aeration provides oxygen and also strips out ammonia, carbon dioxide, and other toxic gasses)

Today, holding systems are still aerated and flushed by water from nearby sources. The problem is with the water quality. These are times when the water contains little or no oxygen. Oxygen in the water from wells is generally low or non-existent. The only way oxygen is picked up is by splashing or spraying it into the tanks.



We offer several *Standard Aeration Systems* based on holding capacities. However, we will also prepare a **FREE** systems design should our standard sizes do not meet your requirements. Our **'Modern Air' Aeration System 107** will maintain up to 3,000 bait shrimp. There are two (2) options for this system as *Option A* includes our **Plastipore Diffuser Tubing** (for a finer bubble) and *Option B* includes our **'Pro-Glass' II Fused Alumina Diffusers** (for a medium bubble). Our **'Modern Air' Aeration System 908** will maintain up to 5,500 bait shrimp. There are two (2) options for this system as *Option A* includes our **Plastipore Diffuser Tubing** (for a finer bubble) and *Option B* includes our **'Pro-Glass' II Fused Alumina Diffusers** (for a medium bubble). Our **'Modern Air' Aeration System 907** is ideal for Transport Tanks for both *Land* and/or *Sea* as they are 12 Volt. Each system can be operated via a standard car battery if desired. As with our other systems, there are two (2) options for this system as *Option A* includes our **Plastipore Diffuser Tubing** (for a finer bubble) and *Option B* includes our **'Pro-Glass' II Fused Alumina Diffusers** (for a medium bubble). Each **'Modern Air' Aeration System** is operated by a high quality, continuous duty diaphragm air pump. Each pump provides for maximum efficiency in creating the optimum in water conditioning.

For large aeration installations, we also offer our industry standard **Rotron Regenerative Blowers**. Our **Rotron Regenerative Blowers** provide for high volumes of air. With over 350 models available, we can meet any requirement with the highest efficiency and effectiveness.

For water quality, our **water pumping/filtration systems** are designed on a client by client basis as we have to take into account the *Number Of Tanks, Dimensions Of The Tanks, Organism(s) Being Held, Loading Capacity, Length Of Holding Time*, and more. We do offer our **Crystal Clear Filtration Packages**, but we always ensure the correct system is being used based on the clients needs and objectives.

Contact an **AREA Technical Representative** at **800-257-AREA** (2732) today to have your *aeration* or *water pumping/filtration system* designed based on your needs. Please note that we also offer *heating* and *chilling* systems if needed.



WATER CORNER

ORP/TEMPERATURE PEN

Our **NEW ORP/Temperature Pen** provides our customers in *Aquaculture, Public Aquariums, Wastewater* and other industries with the most innovative and cost effective way to measure ORP and temperature! Our pen provides an easy to use graphic interface, simple one hand operation, memory, and low cost of ownership over the life of the product.

Our **ORP/Temperature Pen** measures ORP (absolute and relative mV) and Temperature with the following features:

- **IP-67 Waterproof Housing**
- **Replaceable Electrodes**
- **50 Set Memory (absolute and relative ORP, date and time stamp)**
- **Absolute and Relative mV Readings**
- **Graphic Display With On Screen Instructions**



APPLICATIONS

- **Aquaculture**
- **Public Aquariums**

Our **ORP/Temperature Pen** is designed for quick, accurate results in an economical platform. Each pen features a 1 Year Instrument Warranty and a 6 Month Probe Warranty.

We offer a full line of *Meters* and *Monitoring Systems* that include *Handheld Units, Pen Units*, and more. We have meters that allow you to measure virtually every parameter including *DO, pH, ORP, Conductivity, Salinity* and more. Most of our meters are multi-parameter units that allows you to measure various parameters with the same unit. Call one of our technicians today and we will assist you in selecting the perfect meter or monitoring system for you.

10% OFF



ISSUE:***I HAVE A BLOWER AND DIFFUSERS DO I NEED ANYTHING ELSE FOR MY AERATION SYSTEM?***

Absolutely! Contrary to some beliefs, your blower/compressor, diffusers (or other diffusion device) and your PVC components are **NOT** the only part of your aeration system. As your blower/compressor is the largest capital investment of your aeration system, you also have many peripheral items that are optional, but should be utilized to protect your investment.

In the *Manifold Drawings* we provide our customers during the design process, we identify most peripheral items that are recommended based on the particular system. Some of the most important peripherals include *Intake Filters/Silencers, In-Line Air Filters, Pressure Relief Valves, Pressure Gauges, Blower Flow Meters, Pressure Switches* and *Variable Frequency Drives*.

INTAKE FILTER/SILENCER

Our Intake Filter/Silencers filter the intake air and also quiet the unit to a very low noise level. Each filter/silencer features multiple ports, durable housing and washable foam pre-filter for extended life of the main polyester cloth element. Each filter is 99% efficient @ 10 micron.

IN-LINE AIR FILTERS

Our *In-Line Air Filters* are a result of our clients desire to improve air filtration to specific areas of their operations including *Hatchery, Algae Culture Rooms, Laboratories*, and more. The size ranges of our *In-Line Air Filters* are from 1/2"Ø to 12"Ø. Our high purity cartridges are also manufactured of polyester cloth therefore they are moisture resistant and washable. They are nominally rated for 99+% efficient at 1 micron. Also available are units with HEPA elements nominally rated at 99.9+% at 0.3 micron.

PRESSURE GAUGE

Our *Low Pressure Air Gauges* are used to set our *Pressure Relief Valve* on the main air manifold. The unit allows the operator to know what the operating pressure is and when the diffusion devices may need cleaning. Each *Low Pressure Air Gauge* measures in IWG (Inches of Water Gauge) and PSIG (pounds per square inch).

PRESSURE RELIEF VALVE

Our *Air Pressure Relief Valves* extend bearing life of an air blower by automatically compensating for back-pressure when a portion of the air system is shut off. Excess air that is not released produces heat which is destructive to the bearings.

BLOWER FLOW METER

Our *Blower Flow Meters* monitors the flow rate on a constant and consistent basis. Each unit provides a direct reading in SCFM, has a low pressure drop ($\approx 2-4"$) across the flow meter, is made of lightweight aluminum, has no moving parts, has a large easy to read dial, and is accurate within 2% at standard conditions. Units come with a 0.048" allen key that is supplied for adjustment.

BLOWER/COMPRESSOR SWITCH

Our *Blower/Compressor Switches* are used to make your system operate more efficient and effective. Our switches will turn your blowers or compressors to **ON** or **OFF** without you having to go and physically do it! Our switches will detect a drop in your primary blower or compressor pressure and turn the unit off in order to activate your redundant (back-up) unit. Each unit features efficient Nega-Rate® Belleville disc spring for stable set points, vibration resistance and field adjustability through the pressure port. Further, each unit is weather-proof (NEMA 4 and 13).

VARIABLE FREQUENCY DRIVE

Our *Variable Frequency Drives* allow you to have the most efficient and cost effective system. Our *Variable Frequency Drives* are an adjustable speed AC motor control designed to speed the blower RPM UP or DOWN. They are designed to minimize losses and deliver increased efficiency, low maintenance, and the long life expected from our *Rotron Regenerative Blowers*. They also act as a motor starter which reduces the extra expense.

Always consult with an *AREA Technical Representative* for proper sizing and **FREE** systems design.

If You Ever Require Technical Assistance, Our Technical Representatives Are Always Available At 800-257-AREA (2732). Further, We Offer FREE AERATION, WATER PUMPING, WATER FILTRATION, HEATING and CHILLING Systems Design. This Will Insure you have the Most Efficient and Cost Effective System You Can That Is Specific To Your Application And Facility!

AQUASCAPE DISPLAYS



To continually provide our clients with new and beneficial products, we have developed our **Aquascape Displays**. Our displays are perfect for our clients in the *Zoological/Public Aquarium* and *Pet/Aquarium Industries* to improve the aesthetic quality of exhibit tanks. Our displays are a perfect way to improve the aesthetic value of exhibit tanks as they are stunning and practical in addition to being very cost effective.

Each display is hand made from articulated foam and has a "real life" appearance. Further, our **Aquascape Displays** also harbour nitrifying bacteria, which will support in filtration of the tanks. Each display has a 3-D appearance with natural colors for the perfect effect. We offer *Standard Displays* for standard aquariums and *Custom Displays* with bubble volcanoes and other features. We also provide *Custom Fabrication* for large exhibits/displays as we can custom make displays for any size tank - even the most outrageous designs and tank sizes! We also have sizes available that will fit over lift tubes and drain pipes in tanks which is a great way to hide these elements! Some of our **Aquascape Displays** include *Decorative Coral Reefs*, *Live Rock Designs*, *Volcanic Designs* and much more.

Please contact a *Technical Representative* for additional information and pricing. Also, we can prepare a custom pieces/displays, just discuss your application with one our *Technical Representatives*. We will require the sizes of the tank/exhibit, your desired objective for the display and any items you wish to have hidden by the display (ie. Drain pipes, Valves, et al.).

We look forward to showing you the tremendous benefits our **Aquascape Displays** will provide your existing or future tanks or exhibits.

AIR CORNER

EZAIR AQUARIUM AIR VALVES



DO IT BETTER WITH PLASTIC! Our **Plastic Aquarium Air Valves** have all the superior features of the best brass air valve without the drawback(s). They will provide years of service without binding due to corrosion/oxidation. Each valve is ideal for tapping into PVC pipe air distribution systems and are used extensively for saltwater tanks and high humidity areas where most valves fail.

Call today for pricing and additional information!



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