AQUARIUS Technologies LLC

Coarse Bubble Aeration Systems

SIMPLY THE BEST

With over a decade of experience in the design, application and operation of wastewater treatment aeration systems, we have the knowledge to select the right diffuser system for your application.

All Aquarius Diffused Aeration Systems provide:

- Process and Application Support
- Mechanical Design Expertise
- Proven Performance
- Ease of Mind - Made in the USA

You can be confident in the quality and performance of our Coarse Bubble Diffused Aeration Systems.

Wide Band Stainless Steel Diffusers

Proven aeration solution based on a design developed over 50 years ago. The Wide Band Diffuser System features:

- A Wide Range of Airflows
- Low Headloss Over Full Range of Operation
- Full Length Bottom Diffuser Deflector Prevents Diffuser Fouling
- Reinforced Gusseted Diffuser Connector for Strength and Durability
- National Pipe Thread (NPT) Standard Connectors for Ease of Installation

Designed for a wide variety of applications including biological treatment aeration, aerated mixing and aerobic digestion.

Operating Range

- Configuration: 12-inch and 24-inch Long
- Normal Airflow Per Diffuser: 5 to 50 SCFM
- Mixing Design: 20-30 SCFM Per 1,000 Cubic Feet of Volume

Materials of Construction

- 304L and 316L, 20 Gauge Stainless Steel Diffuser Body
- Passivated Welded Assemblies Using Full Immersion Method
- 304L And 316L Stainless Steel Aeration Delivery System

Selecting the Right Diffuser

We know every application is unique and selecting the right diffuser makes a difference in meeting performance expectations.

Whether it is our Wide Band Stainless Steel, Flexcap™ or Single Drop Diffuser, you can rely on us to recommend a system to meet or exceed your expectations.

Performance

Diffused aeration system design and performance is based on type, diffuser density, submergence and airflow rates.

Wide Band Diffuser Installation

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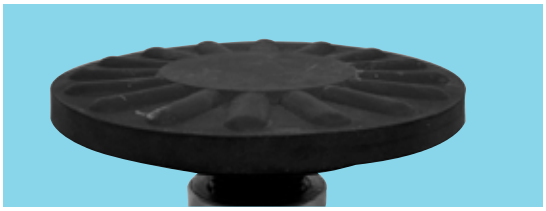
Flexcap™ Diffuser

Aeration solution to prevent plugging in high solids applications where fixed orifice coarse bubble or fine bubble diffuser systems have a propensity to plug.

- Diaphragm Check Valve Diffuser Resists Plugging Due to the Air Release on the Underside of the Diffuser
- The Diaphragm Cap Seals Tightly to the Base when Air is Shutoff Preventing Backflow into the Diffuser or Piping System
- Diffusers are Installed Utilizing NPT Connections to Factory Installed Threaded Bosses on the Crown of the Piping System
- Normal Airflow Per Diffuser: 3 to 15 SCFM
- Mixing Design: 20-30 SCFM Per 1,000 Cubic Feet of Volume

Designed for a wide variety of applications including biological treatment aeration, aerated mixing and aerobic digestion.



Flexcap Diffuser

Flexcap Diffuser Installation

Materials of Construction

- EPDM Diffuser with Polypropylene Base
- Piping System Available in PVC, 304L or 316L Stainless Steel

Single Drop Diffuser

Aeration solution designed for maintenance without the need to dewater the tank.

- Wide Range of Airflows Based on Diffuser Diameter
- No Small Orifices or Pipe Restrictions Below the Liquid Level to Plug or Clog
- Diameter: 3/4, 1, 1 1/2 and 2-Inch Diameter
- Mixing Design: 20-30 SCFM Per 1,000 Cubic Feet of Volume

Designed for challenging applications including mechanically thickened aerobic digesters, sludge holding and heavy solids applications.

Single Drop Diffuser

Single Drop Diffuser Installation

Materials of Construction

- Polyvinyl Chloride (PVC) Diffuser Assembly
- 304L, 316L Stainless Steel or Galvanized Steel Aeration Delivery System

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QUALITY SOLUTIONS

We strive to work closely with our customers to ensure our Coarse Bubble Aeration Systems are the right solution to meet or exceed performance expectations.

Customers We Serve

- Public Utilities
- Housing Developments (Condos, Single Home Subdivisions, Hotels)
- Schools, Universities, Commercial Buildings
- Parks, Camps, Recreational Areas
- Food & Beverage Industry
- Oil & Gas Industry
- Personal Care Products Industry
- Pharmaceutical & Chemical Industries
- Power Plants and Pulp & Paper Industries

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