

## Fine Bubble Delivery System for Air Blowers

### Aeration Technology for Dissolved Oxygen Enhancement in Water

PRODUCT DESCRIPTION

We are proud to introduce our Fine Bubble Hose, which is significant improvement solution to other traditional methods of diffusing oxygen into the water. Based on studies and experiments in wastewater, tilapia and shrimp ponds, we developed this special Fine Bubble Hose specifically to transfer and optimize the dissolved oxygen level into the water. This product creates more continuous air bubbles to transfer oxygen into the water and using less power compared with other aeration systems. The smaller size of these fine bubbles provides larger surface area in the water, explaining why the oxygen transfer-rate is much better than traditional aerators producing much larger bubbles. To maximize aeration efficiency in your water environment, the aerator must both create small bubbles and consume minimum power. Our Fine Bubble Hose technology meets both these objectives. Thanks to this product we can achieve high performance and efficiency through the unique combination of design and materials to create ultra-fine holes throughout the complete length of the hose. This allows the air to move throughout the water very efficiently. Combining this Fine Bubble Hose with one of our efficient air blowers brings high performance and with low operational cost.

FINE BUBBLE MODEL FBH-2517



Our Fine-Bubble-Tube™ is an innovative, high performance aeration system that can be easily, effectively, and economically incorporated into an existing wastewater treatment plant or planned wastewater treatment plant. Also ideal for Aquaculture Applications. The secret to the Fine-Bubble-Tube™ technology lies in a patented manufacturing process that delivers exceptionally high micro pore densities and exceptionally low pumping resistance. This translates into a more effective, lower cost solution for your aeration needs.

KEY FEATURES

- Fine Bubble Delivery System
- High Dissolved Oxygen Levels
- Increases Water-Circulation (bottom-to-top)
- Superior to Paddlewheel Aeration
- Higher Stocking-Density in Aquaculture
- Fish farming with improved FCR
- Low Investment Costs
- Low Power Consumption
- Energy-Reduction up to 75%
- High Quality & Lifespan
- Minimum maintenance (no moving parts)
- Easy to install and connect
- 20 & 25mm diameter alternatives
- Several Water-Configuration possibilities
- Accessories available

TYPICAL APPLICATIONS

- Wastewater Aeration
- Sewage & Grey Water Aeration
- Ideal for Domestic Wastewater Systems
- Large Aquarium Aeration
- Aquaculture Aeration & Oxygenation
- Ideal for Shrimp Farming
- Perfect for Nursery Ponds
- Process Water Treatment

Maintains High  
**DO-Levels**

Energy-Reduction  
**Up to 75%**

Low Initial  
**Purchase**

No Moving  
**Parts**

Easy to  
**Install**

**all.in.one**

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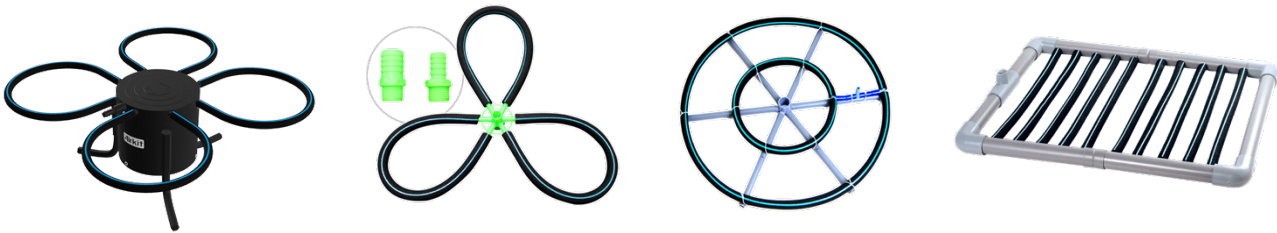
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TECHNICAL SPECIFICATIONS

PRODUCTS:	FBH-2013	FBH-2517	FBH-2513
Air Flow Requirement per meter (l/min):	37,06	37,06	37,06
Typical Operating Pressure* (psi):	<1,0	<1,0	<1,0
Outside Diameter (mm):	20,0	25,0	25,0
Inside Diameter (mm):	13,0	17,0	13,0
Wall Thickness (mm):	3,5	4,0	6,0
Weight (kg per meter):	0,327	0,349	0,355
Roll Length (m):	100,0	100,0	100,0
Roll Weight (kg):	32,70	34,90	35,50
Burst Pressure (psi)	79,77	79,77	79,77
DO Performance Freshwater (kg O2 / hp):	2,7 to 3,6	2,7 to 3,6	2,7 to 3,6
DO Performance Saltwater (kg O2 / 1hp):	6,8	6,8	6,8
Standard Oxygen Transfer Rate (SOTR) (kg O2 / kw):	4,2	4,2	4,2

\*Because of the extremely high porosity of our Fine-Bubble-Tubing, the product build very little internal pressure when operated at recommended flow.

CONFIGURATIONS



MULTIPLE ADVANTAGES

Our Aeration technology products are highly versatile and designed for a multiple of different applications within water processing and treatment where enhanced aeration, dissolved oxygen-levels and circulation are required. Pond, aquaculture, sewage, and wastewater aeration are a few of the most typical application-areas of use for our FBH-product series. The fine bubbles created with added oxygen inserted into the water accelerate the growth of bacteria that break down waste. Aeration systems provide ponds and lakes with improved circulation, and de-stratification to increase dissolved oxygen levels throughout the entire water column. Thanks to that they help to reduce organic sludge, venting toxic swamp gases, reducing nuisance pond weeds, encouraging the growth of beneficial algae, and preventing fish mortality. Using the Quioz aeration solutions, large amounts of air are generated and subsequently passed through water and then ventilated to the atmosphere. The air causes the release of dissolved gases such as radon, carbon dioxide, methane, and hydrogen sulfide as well as volatile compounds like MTBE (Methyl tert-butyl ether) or industrial solvents as well as iron and manganese from the water.

APLICACIONES



Aquaculture Aeration



Pond Aeration



Wastewater Aeration



Greywater Aeration



Sewage Aeration

**all.in.one**

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