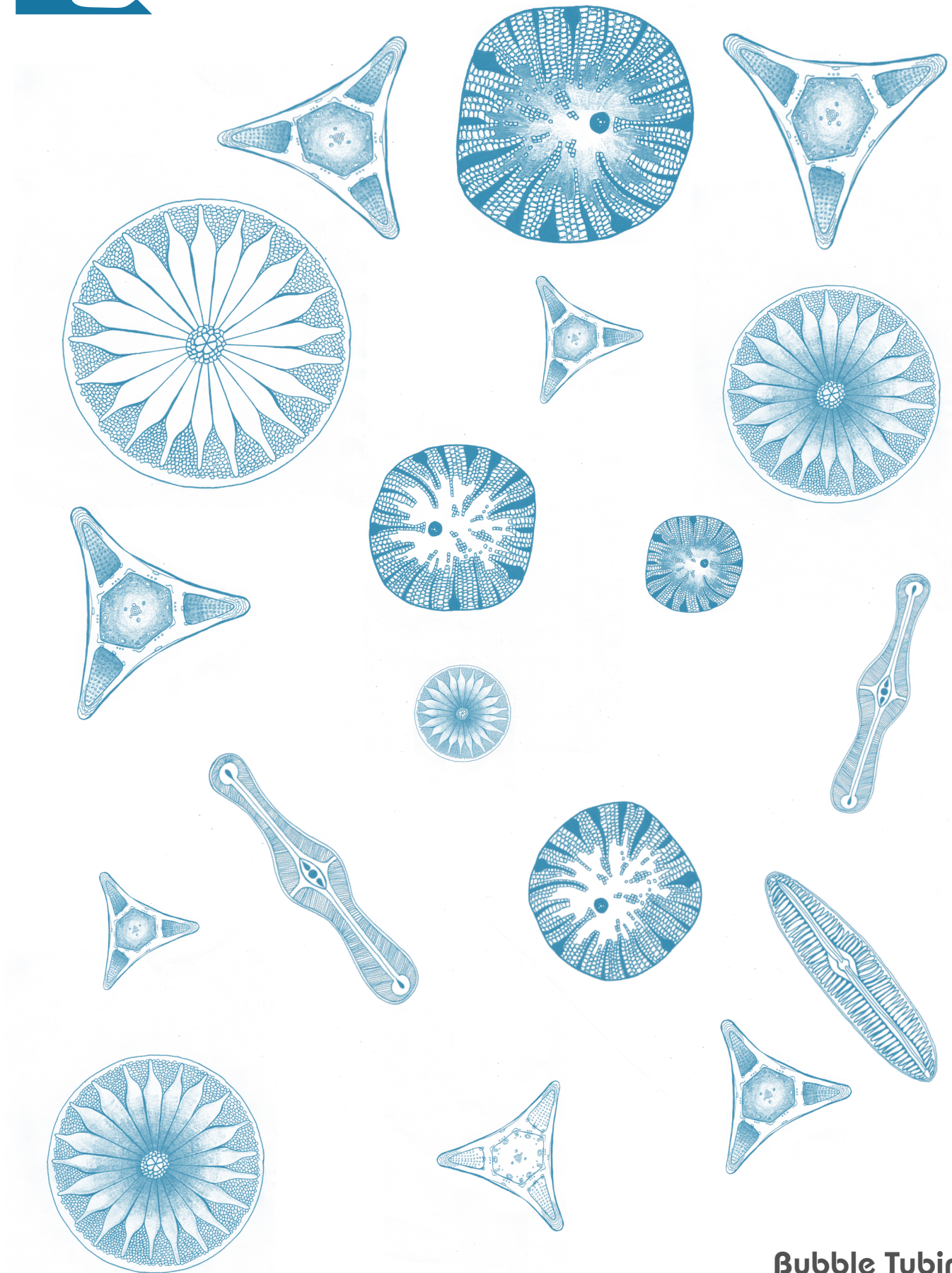




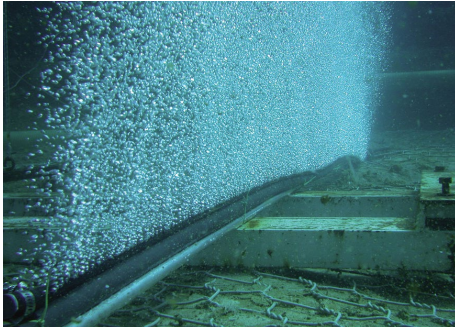
frog  
environmental



**Bubble Tubing®**  
Product Guide



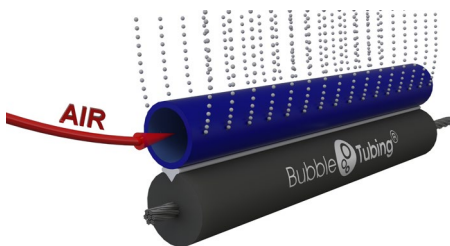
Oxygen is a limiting factor to the balance and health of every water body. As well as providing oxygen into the water column, Bubble Tubing® has many other temporary and permanent applications; from pollution prevention and plastic litter control to sound attenuation and silt management.



## Bubble Tubing®

Bubble Tubing® is a robust and flexible linear aeration tubing. It is available weighted and non-weighted and is quick and simple to deploy.

frog environmental provides turn-key solutions for temporary and permanent aeration and bubble curtain projects in freshwater and marine environments.



## How it works

Compressed air enters the tubing creating an inner pressure. It is released via precision perforations found along both sides of the tubing, this results in a curtain of uniform and evenly dispersed micro-bubbles.

All Bubble Tubing® comes with a 5 year warranty as standard. The self-purging design of the tube prevents bio-fouling and keeps operational costs to a minimum.



## Sizes available

Bubble Tubing® is sold in custom and standard lengths. It is available in 3 different sizes, with internal diameters of 1/2, 3/4 and 1 inch.

Bubble Tubing® provides industry-leading oxygen transfer rates and has been successfully deployed in thousands of projects worldwide in a wide range of applications.



## Compression equipment

Our range of compressors is oil-free and has been specifically engineered to provide compressed air safely and efficiently for all Bubble Tubing® applications.

frog environmental provides a range of soundproof lockable cabinets designed to house compressors that minimise any visual or auditory impact.



Bubble Tubing® is applied in canals, rivers, lakes & reservoirs and estuarine & marine environments as well as being used in water treatment systems. The chemical and corrosion resistant components and precision manufacturing ensure micro-bubbles are produced long after the 5-year standard warranty.



## Silt plume control

- Bubble Tubing® is used to control the movement of silt plumes from dredging, bank disturbance and piling projects
- Quick and easy to deploy and reposition
- Allows navigation to remain open for project duration
- Provides elevated downstream oxygen levels to counter any increased oxygen demand from works, thereby protecting fish



## Sound & vibration control

- Bubble curtains are used to mitigate noise and vibration in marine and freshwater works
- Lines of Bubble Tubing® protect marine mammals and fish from damaging vibrations and help meet consent requirements
- Allows navigation to remain open whilst providing environmental protection
- Independent 3rd party testing allows for precise and cost effective bubble curtain specification



## Plastic debris and weed control

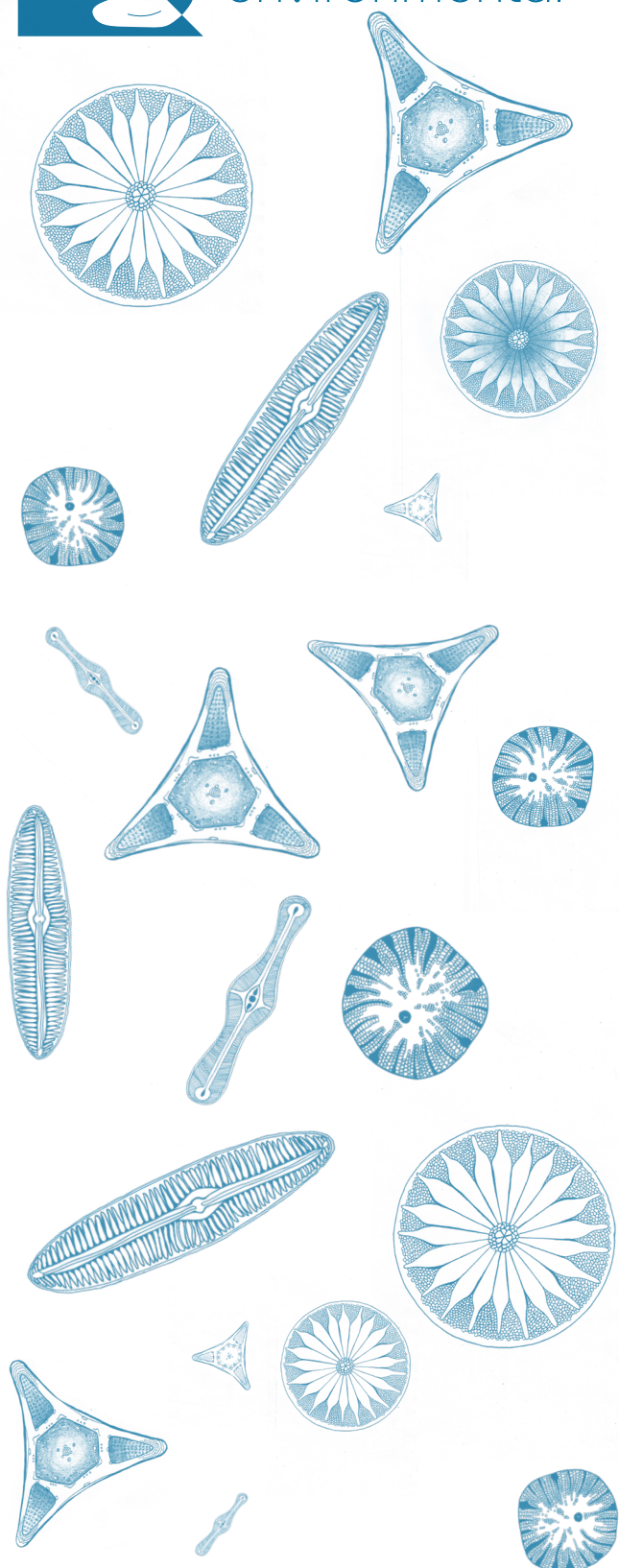
- Lines of Bubble Tubing® create barriers that prohibit the free movement of plastic and floating weed
- Visual appeal of high value urban water spaces and marinas can be protected
- Assets such as abstractions and cooling systems can be protected from clogging, which reduces maintenance
- Lock gates and sluices can be protected from debris that causes damage and leads to expensive repairs



## Aeration

- No moving parts or electricity in the water
- Independent tests have shown industry leading oxygen transfer rates and durability in a wide range of environments
- Perforations along the length of Bubble Tubing® maintain their geometry after thousands of hours of operation
- Bubble Tubing® can play a significant role in reversing eutrophication in lakes and reservoirs





frog environmental is the UK distributor and knowledge hub for Bubble Tubing®. We provide a design service and turn-key solutions for the many different applications of Bubble Tubing®, from the energy sector and marine civils through to river restoration works undertaken by volunteers.

Bubble Tubing® has a diverse range of applications that protect and enhance freshwater and marine ecosystems, helping both asset owners and contractors achieve exacting standards of environmental protection.

Most Bubble Tubing® projects are straightforward and can be designed and delivered by drawing on our years of experience of applying Bubble Tubing®. All components are typically available at short notice and can be set up and deployed quickly and easily.

Larger industrial and marine projects often require a bespoke approach to achieving quantifiable targets. These projects typically require a higher level of design work and site investigation in order to deliver the right solution.

For technical support and sales of Bubble Tubing® contact frog environmental:

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