



YOUR PARTNER FOR AERATION TECHNOLOGY & BIOFILM PROCESSES

THE NEW JETFLEX[®] DOUBLE SLEEVE



The new JetFlex® Double Sleeve is used in a wide range of technological applications. As a self-sinking, micro-perforated sleeve up to 120m long, the JetFlex® DS32 offers significant technical advantages compared to conventional systems.

In addition to optimized functionality in respective applications, plant operators can realize significant savings in the area of installation and operating costs.

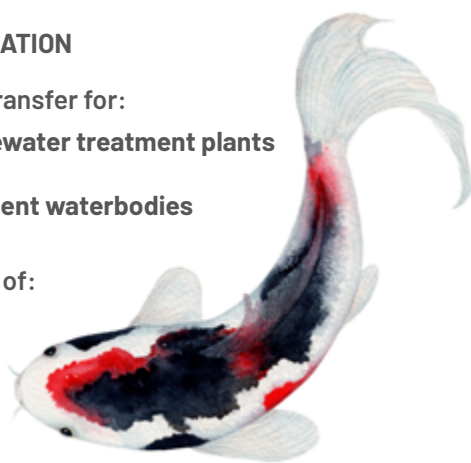
AREAS OF APPLICATION

Efficient oxygen transfer for:

- Biological wastewater treatment plants
- Lagoons
- Lenitic and affluent waterbodies
- Aquacultures

Effective shut-off of:

- Oil
- Sediment
- Algae
- Jellyfish



Effective reduction of sound under water.

Energy-saving prevention of ice formation in harbor basins or in front of watergates.

THE APPLICATION IN BIOLOGICAL WASTEWATER TREATMENT PLANTS

The JetFlex® DS32 can be used as a highly efficient, fine-bubble diffuser in the aeration basin of biological wastewater treatment plants.

The JetFlex® DS32 offers significant advantages over conventional aeration systems:

- No ground anchoring
- No piping
- No leveling

This reduces the costs of installation to a minimum and the diffuser is installed and ready for operation in the shortest possible time. Due to the fast, uncomplicated installation, the JetFlex® DS32 can be used as an addition to existing aeration systems or as temporary aeration. In this application, the diffuser uses the entire water depth for efficient oxygen transfer.

THE USE IN LAGOONS OR LENITIC AND AFFLUENT WATERBODIES

In lagoons, lakes and rivers, the JetFlex® DS32 is ideal for increasing the oxygen concentration. This curbs the negative consequences resulting from oxygen deficiency, e.g. fish kills due to excessive algae growth, and minimizes odors.

The design of the DS allows it to be used over a long distance in water bodies with varying water depths and still aerate along its entire length.

In addition, the aerator is in several respects superior to a surface aeration system and a punctual compressed air aeration:

It enables

- An long-range distribution of the oxygen input
- The use of the entire water depth for oxygen input
- A quick, inexpensive installation without anchoring and leveling

Thus, the JetFlex® DS32 is ready for operation in a very short time and causes an effective increase in the concentration of dissolved oxygen in the water body.



OUR VISION IS TO CONTINUOUSLY CONTRIBUTE TO THE PROTECTION OF WATER THROUGH OUR TECHNOLOGY AND SERVICE.



THE APPLICATION IN FISH FARMING

The main advantages of the JetFlex® DS32 for use in fish farming

- Installation close to the ground, without fastenings
- Robustness of the sleeve system
- Possibility of a large-area arrangement of the double sleeve
- Simple installation and commissioning of the system
- Very efficient oxygen transfer

THE USE AS A BARRIER OF OIL, SEDIMENT, ALGAE, JELLYFISH AND SOUND

The JetFlex® DS32 creates a curtain of very fine bubbles from the bottom of the water body to the water surface. This curtain of bubbles has two essential properties:

- It forms a compressible wall that absorbs energy. This effectively reduces sound pressure.
- It creates an upward current that divides the water body at the surface in terms of flow. This effectively blocks particles floating in the water or on the surface.

Despite the above-mentioned impermeability, the barrier is passable for swimming aquatic life, such as fish, as well as boats and ships.

THE APPLICATION TO PREVENT ICE FORMATION

The use of the JetFlex® DS32 can counteract the freeze over of water surfaces.

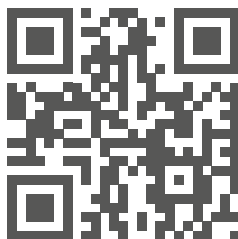
On the one hand, the rising air bubbles bring warmer water from deeper layers to the surface, and on the other hand, the rising air swirls the water at the surface.

Both mechanisms prevent the formation of ice on the water surface.

Exemplary application sites include:

- Harbors
- Sluices
- Reservoirs

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