

VitaOloïd



- Prevents algae growth
- Increases the oxygen
- Reduces sediment on the bottom
- Homogeneous water quality



Your crops will receive cleaner, more homogeneous and oxygen-enriched water

Stagnant water causes algae growth. Algae clog your irrigation systems and lower the oxygen content of the water, which is detrimental to your crop. The presence of algae and other harmful substances lower production and therefore cost you money. HortiMaX's solution is the VitaOloïd. The VitaOloïd 'agitates' the water in your basin or tank and the accumulation of biodegradable substances on the bottom. The VitaOloïd, however, also increases the oxygen content of the water to the maximum soluble level.

HortiMaX
growing solutions



VitaOloid

- **Prevents algae growth**

The VitaOloid effectively inhibits explosive algae growth. This results in cleaner basin water and cleaner irrigation and dripper systems.

- **Increases the oxygen content**

The use of water with a maximum oxygen content boosts crop growth. Crops also become stronger and more resistant to diseases and plagues.

- **Reduces sediment on the bottom**

Because the basin water is kept in constant motion, degradable substances and sediment can no longer settle on the bottom and are filtered off immediately. In addition, the high oxygen content of the water biologically breaks down the sediment.

- **Homogeneous water quality**

The constant water current ensures a homogeneous water quality and temperature throughout the entire basin, resulting in more stable growing conditions for your crops.

How does it work?

The electrically driven agitator (called an 'oloid', hence the name) has a unique geometric shape and drive mechanism. The rotating oloid causes a pulsating and unidirectional water current, which efficiently stirs great quantities of water. This current is not only created on the surface, but throughout the entire basin or tank. As a result, the oxygen-enriched water is spread homogeneously throughout the basin. The VitaOloid can be adjusted to different depths, as conditions require, so any biodegradable substances or sediment in the water no longer collect at the bottom of the basin. You will soon notice the results, as the table below shows.

Applications

The VitaOloid floats in your basin or tank on a so-called "floater set". This set consists of two synthetic floaters which are interconnected by means of a bridge construction. This is connected to an electric motor with a drive system, which drives the oloid using a unique transmission mechanism.

The height of the oloid is adjustable. In its highest position, the oloid is partly above the water

surface, mixing air (and therefore oxygen) into the water. This process is called "aeration". In its lowest position, the oloid is mostly submerged, increasing the water current. This is known as "agitation".

The speed rotational speed of the oloid can be adjusted by means of a control box which is normally fixed to a mounting pole near the basin. The VitaOloid is kept in place by mooring lines attached to the edge of the basin. The power supply cable for the motor can be easily attached to one of these lines.

The VitaOloid is available in three models. Which model is best for you, depends on the size of your basin or tank.

Water basins up to 1000m³ – VitaOloid 200
 Water basins up to 15,000m³* – VitaOloid 400
 Water basins up to 45,000m³ – VitaOloid 600
 * Depending on the dimensions of the basin.

More Information?

For more information, please contact HortiMaX at +31 (0)15 362 03 00 or one of our local dealers near you. You can also visit our website at www.hortimax.com.

	Before Installation	Three weeks after Installation	Six weeks after Installation
Oxygen content:			
- on the surface	72 %	72 %	99 %
- in the middle	74 %	71 %	98 %
- At the bottom	36 %	69 %	82 %
temperature difference between bottom and surface	2°C	0°C – homogeneous	0°C – homogeneous
Light transmission of water	76 %	81 %	73 % **
Algae ratio (chlorophyll content)	913 µg/l	590 µg/l	383 µg/l
**caused by mixing in groundwater			