

## Algae prevention in the irrigation pond

### Hauenstein AG, Tree nursery Rafz / ZH, Switzerland

„Algae that clog filters or nozzles are history with us “



**Hauenstein Rafz**  
<http://www.hauenstein-rafz.ch/>

**Operation**  
1 irrigation pond with 5.300 m<sup>3</sup>  
(LxWxD = 30 m x 30 m x 8 m)  
with 1 OLOID Type 400

**Period**  
Since 2014

**Success**  
No algae formation

**Impeccable water quality**

#### **Brief description of the operation**

(in detail under [www.hauenstein-rafz.ch](http://www.hauenstein-rafz.ch))

The Rafz tree nursery owned by Hauenstein AG is in the 4th generation, i.e. for 130 years and employs around 100 people. It is a mixed operation on 80 hectares of open land and approx. 1.5 hectares of film-covered, unheated greenhouses. The range consists of a variety of perennials, deciduous trees, conifers, ornamental and avenue trees as well as creepers and climbing plants, bamboo, roses, fruit trees and berry bushes. The environmentally friendly cultivation takes place according to the guidelines of Suisse Garantie. The customers of the Rafz tree nursery are supplied throughout Switzerland all year round.

#### **OLOID operation**

The pouring water basin with a capacity of approx. 5,300 m<sup>3</sup> is fed with water from the Rhine via a feeder pipe of 5 km. The water depth is max. 8 m and varies by +/- 1 m. In autumn the water level is lower because less irrigation is required. The basin is emptied and cleaned about every 5 years. In 2014 the basin was de-sludged and then an OLOID Type 400 was used in continuous operation instead of the carp that used to live in it. The ducks that were also present stayed until 2019.

#### **Success**

The OLOID stirring body is completely submerged in the water. The daily water turnover is around 1,000 m<sup>3</sup> (annual water requirement: 150,000 m<sup>3</sup>). This water is circulated thoroughly. A temporary attempt was made to run the OLOID only 12 hours a day at night. In the meantime, however, large, thread-like algae patties with a diameter of up to 1 m Ø began to form, after which the OLOID was used again in continuous operation. Soon there were no more algae to be seen and the water quality was as desired.

*The OLOID was recommended and installed by our Partner **GVZ Rossat AG/SA**.*