

Agitate, Circulate and Aerate

Optimisation of
pond treatment plants

a mixing
mission is
possible!

Main issues and solutions:

Main issues of pond treatment plants:

- settleable solids / sedimentated sludge
- worsen effluent values in season changes
- too less nitrification and denitrification
- too less COD-reduction
- freezing of the ponds

Pond treatment plants will be optimised by an process mix !

Our favourite process mix:

- **OLOID** in combination with
- **floating wet lands** as biofilm growth carrier
- possibly supplemented by **surface aerators**



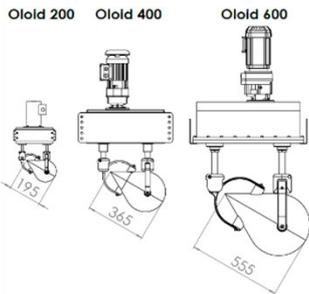
no freezing:
Magdalenenhofteich
(Vienna) at -20°C

Possible further actions, which will lead to an integrated solution:

- use of overgrown vertical partition / sheet pile walls
- installation of a primary treatment
- desludging of the pond
- use of simple partitions for directional water flow (prevention of short-circuit currents)
- water level control and regulation
- controlled separation of rainwater (bypasses or rainwater catchment basin)
- integration of planted reed zones in the polishing pond

Machines and methods that can be combined:

A1. OLOID



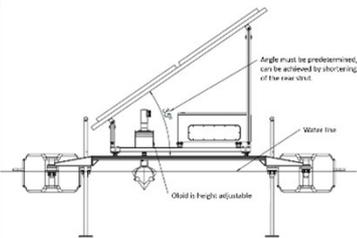
Characteristics:

worldwide unique selling point
to recirculate and aerate flat, elongated
ponds, combinable with surface aerators
and floating wet lands
about 20 German references!

Pond treatment plant
Battenberg



A2. SOLAR-OLOID



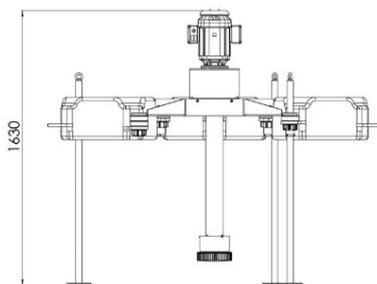
Characteristics:

Power supply for remote ponds
Inclination angle 0-45° adjustable
Oloid stirrer 360° rotatable
Average 12h / day running time
Overload and discharge protection
Programmable running times

Lake renaturation
Lüneburg



B. SURFACE AERATOR



Ventilation capacity:

(measured at 1420 rpm)
air volume flow: 58.5 m³ / h
oxygen input: 5.0 kg O₂ / h
oxygen yield: 2.2 kg O₂ / kWh
perfect in combination with OLOID

Pond treatment plant
Ruwertal



C. FLOATING WET LANDS

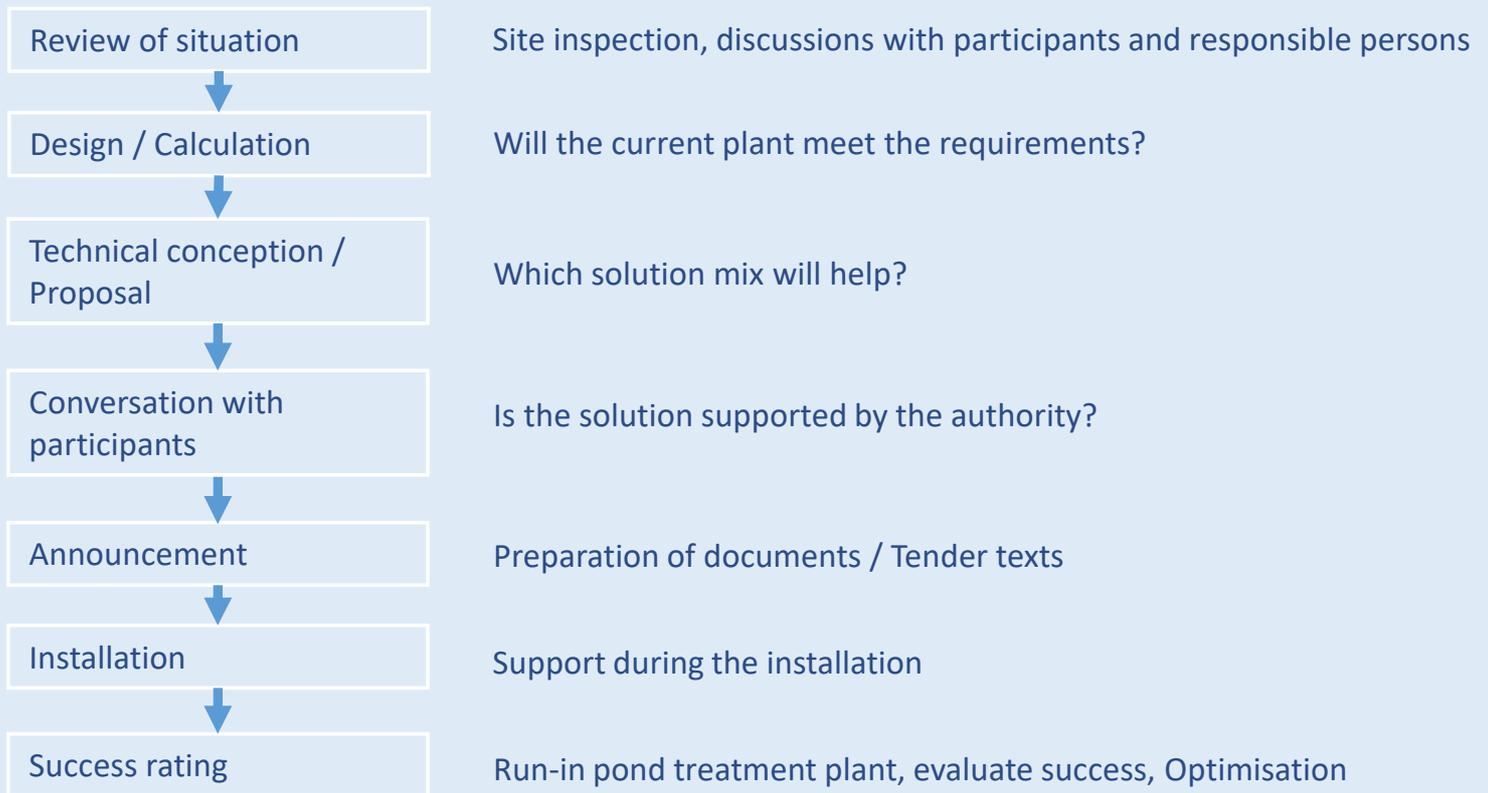
Characteristics:

easy to install
little care necessary
approx. 1 m² nursery area / m² pond mat
no removal in winter
Lifetime > 10 years

Pond treatment plant
Zeigerheim



What do we offer:



Your sales contacts:

M.Sc. Wasserwirtschaft Eric Schieblich
eric.schieblich@olod.de
+49 177 49 08 432

Dipl.-Wirtsch.-Ing. Lars Richter
lars.richter@oloid.de
+49 152 33 98 08 20



OLOID Solution GmbH
W.-Winkler-Str. 3
D-04178 Leipzig
www.oloid.de

- mission completed -
circulation & aeration
is really possible