

Oxywheel®



Oxywheel 0.65 kW

Our proven paddle wheel technology has gone undercover, in our blockage-free oxygen-enrichment system Oxywheel !

Two factors, important for the effectiveness of an oxygen-enrichment system, are the contact area between gas and water and the contact time. **Oxywheel** achieves a huge contact area and a long contact time under the oxygen input cover – this guarantees high effectiveness and efficiency !

The input cover has been developed especially for the **Oxywheel** system and is made of polyethylene. The active part of the system, the brush wheel, is enclosed by this cover.

The cover encloses two chambers; a mixing chamber and an exit chamber. The exit chamber slows the water, and allows waste gases to form into bubbles.

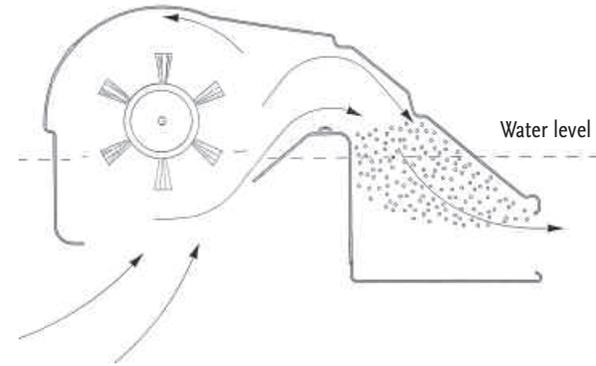
The exit chamber has been enlarged, to extend the residence time of the water. The functional division of the chamber into 2 zones guarantees mixing and delivery of the oxygen, and also ensures that the oxygen-rich water is directed away from the machine. In contrast to some devices on the market, **Oxywheel** creates a directional flow and provides an optimized flow in the whole pond. Thus, short-circuit currents are avoided!

The new mixing wheels provide a great contact area too! **Oxywheel** is now fitted with new brush wheels (LINN patent DE 10104329 A1). These flexible brush wheels maximise the mixing and effectiveness,

but with reduced energy requirements. In addition, these new brush wheels allow **Oxywheel** to be used in tanks and breeding ponds that are densely-stocked with fish. Damage is avoided to the fish, as the brushes are soft. Blockage is virtually impossible.

Oxywheel is driven by a robust electric motor and a synchronous belt drive. This transfers the motor power to the brush wheels with lower power requirements.

The drive mechanism has been proven over more than 15 years in our Aqua-Wheel aerator. After some years of use,



any repairs to the drive are made easily and simply. The drive components are easily accessed by removing a cover.



detail: motor with robust drive belt



Oxywheel 0.37 kW

Technical

Motor rating	kW	0.37	0.65
Power take-up	W	500	900
Voltage	V	230/400	400
Motor	1/min	910	910
Paddles	1/min	190	190
O ₂ -enrichment max.	l/min	16	32
	m ³ /h	1.0	2.0
Dimensions	cm	140 x 90 x 66	140 x 140 x 66
Weight	kg	58	88



LINN-brush wheel

Lightweight polyethylene is used extensively in the construction, making the aerator very light. It is therefore easy, using the convenient handles on the floats, for 2 people to put it in or take it out of a pond, or move it around.

Oxywheel is supplied ready for use, with no assembly necessary. It is supplied complete with cable and overcurrent device, to protect the motor. It is simply necessary to connect the oxygen supply.

Oxywheel are made in two sizes. The 0, 37 kW model is equipped with one, and the 0, 65 kW model with 2 mixing chambers. Both sizes have a stable main float.

ADVANTAGES:

- highly efficient
- almost silent
- compact
- non-clogging
- tested and reliable
- new brush wheels

Oxyjet

Oxyjet is an open oxygen input system which is put directly into the pond or channel. The system is ideal for use in recirculation complexes where the water must be circulated anyway. Then **Oxyjet** circulates the water and enriches it with oxygen at the same time. **Oxyjet** can be used wherever there is a hydraulic pressure head of at least 60cm.

The outstanding performance of **Oxyjet** is due to patented special jets. Compared to conventional jets, a very high gas transfer is achieved. The jets result in a very high bubble detention time in the mixing chamber, and therefore a very high effectiveness and efficiency.

According to the flow to be enriched with oxygen, **Oxyjet** is fitted with a suitable number of jets. Furthermore, **Oxyjet** is flexible for times of low flow – plugs are supplied to block jets to reduce the flow capacity. If the water flow increases temporarily, there is an overflow, that bypasses the jet system.

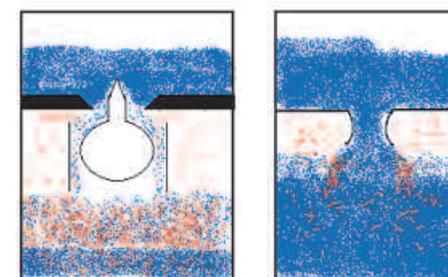
Oxyjet offers effective oxygen enrichment without energy or maintenance costs.



Oxyjet Type 02-04



Oxyjet mounted in the pond



At the left: patented LINN mixing jet
At the right: conventional systems

Technical

Oxyjet		Type 01	Type 02	Type 03	Type 04
no. of mixing jets		1	2	3	4
Minimum water flow	l/s	15	30	45	60
O ₂ enrichment max.	l/min	10	20	30	40
Dimensions	cm	ø 40 H 160	square 85 x 60 x 175		

