

Floating aerators for still and flowing waters, ponds, lakes, sewerage plants and rain-storage ponds

The **Aqua-Pilz** aerator agitates the whole body of the water by means of large-scale circulation and a wide, mushroom-shaped fountain. Harmful gases are expelled as a result of circulating the water. The ripples that are created disturb the surface of the water with the result that there is no heavy formation of algae.

The floating **Aqua-Pilz** aerators discharge the water upwards, as a fountain does, and in so doing create an attractive water feature.

The water is stimulated and circulated with a propeller. The angle of trajectory of the spray and the impact on the water surface enhances the exchange of gases with the atmosphere. The gas filtration and oxygenation is unequalled, resulting in a healthy fish population.

The angle of expulsion has been chosen so that waves move outwards from the aerator, distributing the aerated water throughout the pond. Stagnant, oxygen-poor zones are thus avoided.

This flow of water away from the apparatus also ensures that the aerator always draws water low in oxygen from below, circulates it and enriches it with oxygen. A short-circuit flow is avoided by the angle of expulsion.

Aqua-Pilz comes in two designs: with a surface motor and with a submersible motor. Both types are almost identical in terms of performance, oxygen enrichment and power consumption.

The submersible-motor design produces a lower and rather broader fountain of water, while the fountain from the surface-based-motor version is rather higher but more narrow.

Only the submersible motor version is suitable for use during winter (to reduce the formation of ice for example).

Both types of **Aqua-Pilz** are, of course, designed for continuous operation. The aerators are supplied ready for use and come with cable and motor-protection device. All screen baskets, fittings, motor shafts and screws are made from rust-resistant materials.

Aqua-Pilz

The high-performance electric motor in this type of aerator is housed, with its long stainless-steel shaft, in a polyethylene cover on the float above the surface of the water.

From the outside the isolated motor operates silently, and only the murmur of the stimulated water is audible.



A large rust-proof inlet screen prevents fish and detritus entering the pump chamber. The screen basket is available in a variety of mesh sizes.

We have been producing **Aqua-Pilz** aerators for more than 20 years. This aerator has proven itself a thousand times over and ensures durability!

Aqua-Pilz with submersible motor

With this type of aerator the motor is housed underneath the float and is therefore out of sight. The **Aqua-Pilz with submersible motor** is therefore also perfectly suited to natural bodies of water. When not in use only a small part of the attractive circular float (available in either light blue or leaf green) is visible. In addition to its excellent oxygen-enrichment capability this type of aerator, as a result of its uniform discharge, also provides a beautiful backdrop, for example in parks.

LINN constructed the robust stainless-steel submersible motor (protection class IP68) for this purpose. We use a "pot"-type motor with a stainless-steel drive shaft and a strong bearing.

In order to maximise the durability of the motor a double seal with sliding sealer ring and a special sealer ring in an oil bath has been integrated. The minimal needs of the sealer unit results in an economical use of energy and a long service life. A specially-designed, high-performance axial-pump impeller is mounted on the short motor shaft.

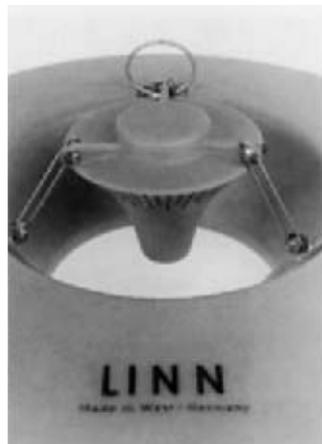
The water deflector is hydrodynamically designed to prevent losses and wasted energy. The deflector distributes the water, producing a large fountain ring. Integral notches in the deflector dissipate and break up the water, improving oxygen enrichment even further.

Aqua-Pilz with submersible motor also has a stainless-steel screen basket (available in a variety of mesh sizes) to prevent fish and plants entering the pump chamber.



Advantages:

- best possible oxygen-enrichment
- minimum energy consumption
- robust submersible motor
- easy to install
- lightweight and readily portable
- high quality materials



Aqua-Pilz special fountain option

We can offer a special version of the **Aqua-Pilz** submersible with a higher fountain. This ornamental version has a

lower oxygen transfer rate, but creates a very beautiful water feature for ponds and lakes!

Technical

		Aqua-Pilz				Aqua-Pilz submersible motor				Aqua Pilz special
Motor rating	kW	0.25	0.40	0.55	0.75	0.40	0.55	0.75	1.1	1.1
Power take-up	W	450	590	840	1100	590	840	1100	1500	1500
Voltage	V	230/400	230/400	230/400	400	230/400	230/400	230/400*	400*	400
Motor	rpm	1380	1380	1380	1380	1400	1400	1400	1400	2900
Fountain Ø	m	2.40	2.80	3.20	3.70	3.20	3.90	4.50	5.00	7.00
Fontain height	m	0.65	0.75	0.80	0.85	0.55	0.60	0.60	0.70	2.00
Minimum water depth	m	0.50	0.60	0.60	0.60	0.60	0.60	0.65	0.65	0.65
Suction depth	m	1.00	1.25	1.50	2.00	1.50	2.00	3.00	3.50	3.00
Active zone Ø	m	15.00	20.00	25.00	35.00	25.00	30.00	45.00	55.00	45.00
Water del	m ³ /h	75	120	150	240	110	160	240	300	250
Dimensions	LxWxH	Ø 800 mm H 750 mm				Ø 800 mm H 650 mm				
Weight	kg	ca. 30				ca. 30				

* 110 V on request