



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



Aqua-Pilz

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.



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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 can be heard.

A large rust-proof inlet excludes fish and debris from the pump chamber. The screen basket is available in a variety of mesh sizes.

We have been producing Aqua-Pilz aerators for more than 30 years. This aerator has proven itself a thousand times over and ensures durability!

ADVANTAGES:

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

Aqua-Pilz



Aqua-Pilz with submersible motor



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



water deflector

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.

Technical

		Aqua-Pilz				Aqua-Pilz submersible motor				Aqua-Pilz special version	
Motor rating	kW	0.25	0.40	0.55	0.75	0.40	0.55	0.75	1.1	0.75	1.1
Power take-up	W	450	590	840	1100	590	840	1100	1400	1100	1500
Voltage	V	230/400	230/400	230/400	230/400	230/400	230/400	230/400	400	230	400
Motor	rpm	1380	1380	1380	1380	1400	1400	1400	1400	2900	2900
Fountain ø	m	2.40	2.80	3.20	3.70	3.20	3.90	4.50	5.00	6.00	7.00
Fountain height	m	0.65	0.75	0.80	0.85	0.55	0.60	0.60	0.70	1.60	2.00
Minimum water depth	m	0.50	0.60	0.60	0.60	0.60	0.60	0.65	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	3.00
Active zone ø	m	15.00	20.00	25.00	35.00	25.00	30.00	45.00	55.00	30.00	45.00
Water del	m ³ /h	75	120	150	240	125	160	240	300	200	250
Dimensions	cm	ø 80 H 75				ø 80 H 65					
Weight	kg	ca. 30				ca. 30					



Aqua-Pilz special version

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.

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!