

Oxygen-enrichment-systems

OXYPLUS

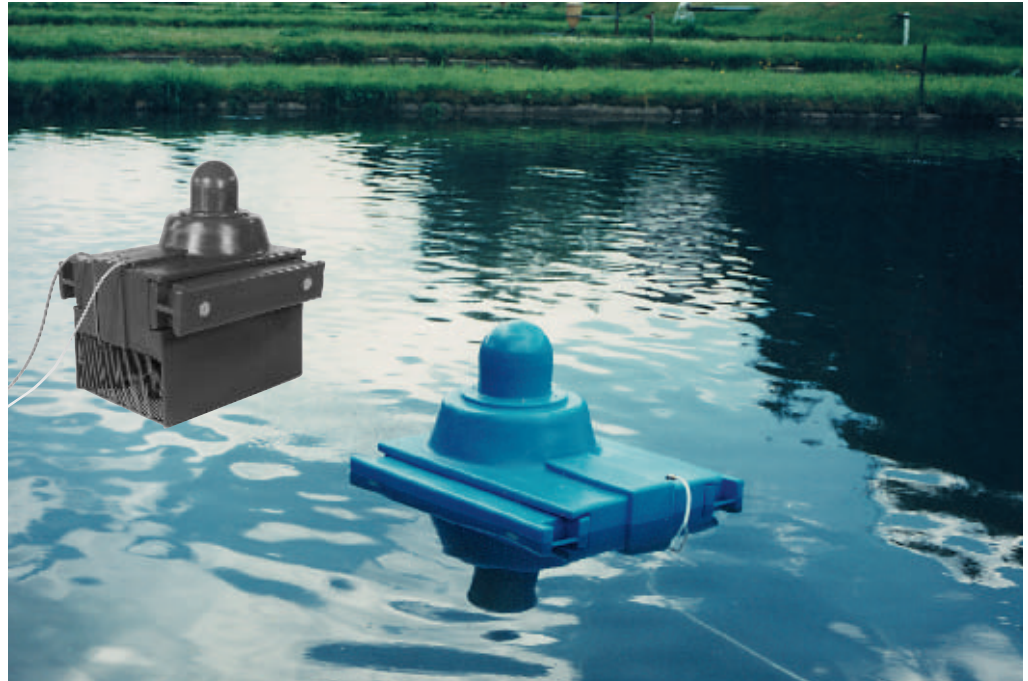
Enrichment with pure oxygen in a self-contained system – developed by LINN Gerätebau, Germany!

OXYPLUS works with a comparatively low pressure difference (max. 0.1 bar). Oxygen-poor water is drawn in and mixed intensively with the pure oxygen which has been introduced. An increase in the surface area of the medium is obtained by mixing and oxygen is taken up. By this means, other gases (e. g. Nitrogen) will also be driven out. These gases escape through the ventilation pipe of the apparatus with a minimal amount of oxygen.

Water supported by **OXYPLUS** can be enriched by 4-10 mg/ltr.

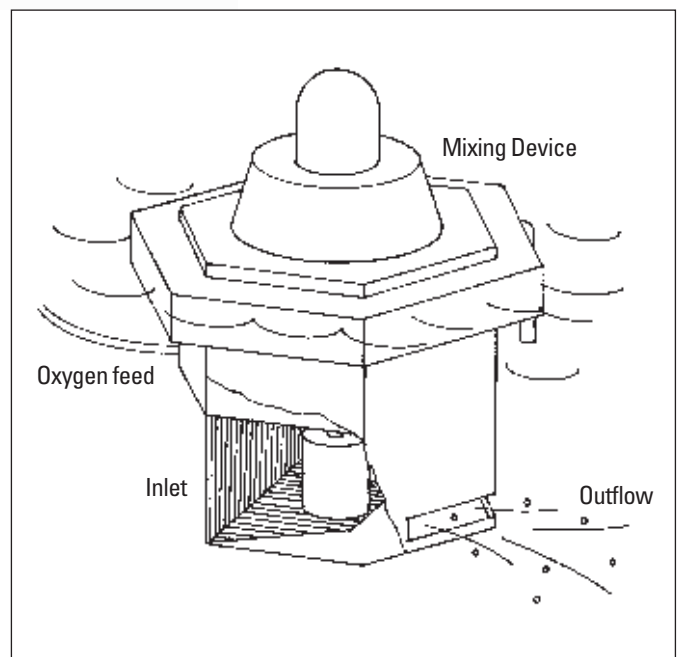
LINN enrichment systems makes it possible to introduce oxygen to water with a high level of efficiency.

OXYPLUS floats (except for the 0.10 kW model), is lightweight, handy and simple to install in the water. It has a directable current. The inlet and outlet are positioned on opposite sides – so avoiding short-circuiting.



OXYPLUS is supplied completely self-contained and ready for use. You simply have to fit the loose floats (included) and the apparatus can then be positioned in the water. An oxygen flowmeter is included. The flowmeter is mounted onto the oxygen supply, which is attached to the apparatus. After having connected the apparatus to your power supply, you can begin.

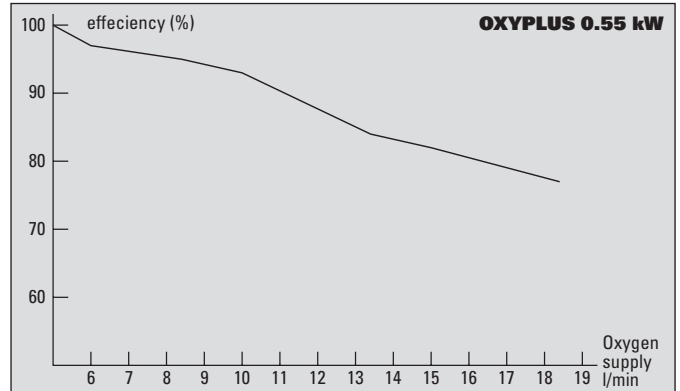
OXYPLUS 0.25 kW



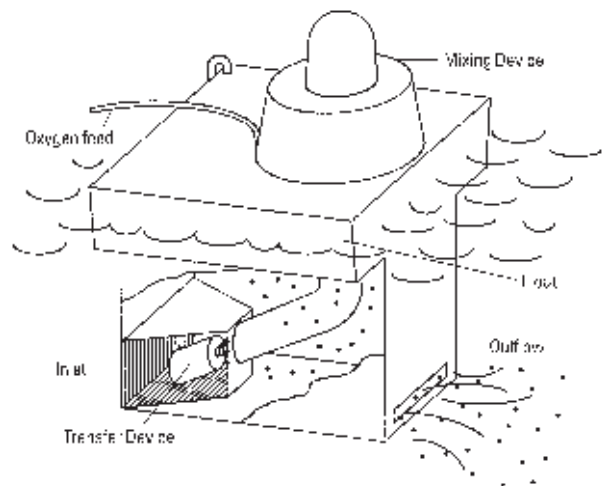
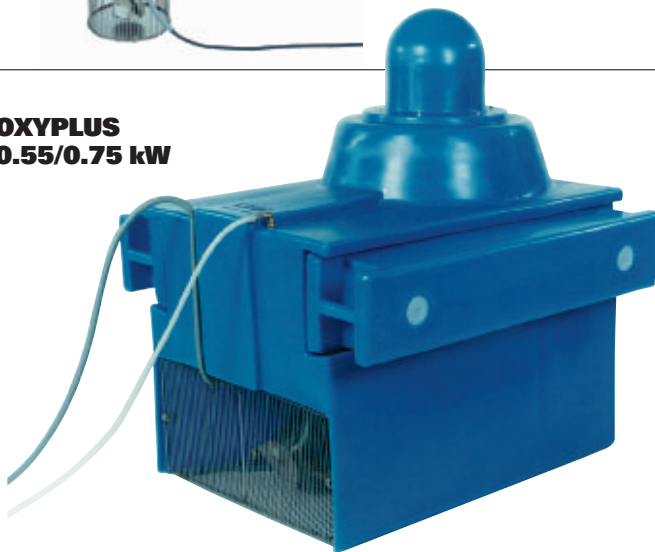


OXYPLUS 0.10 kW

A sedentary apparatus for use in hatcheries, circular and small pools. We use an L3 pipe pump as supply unit onto which the mixing device is fitted. The height of the mixing device can be custom made in according to the location requirements (water level).



OXYPLUS 0.55/0.75 kW



Our tried and tested pipe pumps take care of water supply with the **OXYPLUS** system. The submersible motor's housing is made entirely of stainless steel, the seal is produced with a high quality sliding sealer ring. Mountings and screws are, of course, also made from quality stainless steel. The basic housing and the floats are constructed from synthetic materials and are robust, easy-care items which contribute to the low weight of the apparatus. Practical carrying handles are moulded directly onto the floats.

The inlet requires a screen which excludes fish and other floating debris. Blockages in the system cannot occur. We can supply the inlet screen in several mesh sizes. Standard equipment is a stainless steel screen with 9.5 mm bar spacing – for a fry pool, the stainless steel screen has a

bar spacing of 5.5 mm and for hatcheries a stainless steel screen with bar spacing of 2-3 mm is supplied.

All **OXYPLUS** apparatus are designed for use directly in the pool. Please take into consideration that the volume of water flow through the pool must suit the capacity of the machine in order to achieve optimum results. Speak to us, we will be happy to advise you.

Technical

Motor rating	kW	0.10	0.25	0.55	0.75
Power take-up	Watt	155	400	800	1100
Voltage	Volt	230	230/400	230/400	230/400*
Motor	rpm	2900	1400	1400	1400
Min. water depth	m	0.90	0.60	0.70	0.70
O ₂ enrichment max.	l/min	4	9	17	25
	m ³ /h	0.24	0.5	1.0	1.5
Water del	m ³ /h	17	50	110	150
Dimensions	cm	Ø 30	Ø 105 H 110	100 x 105 x 120	
Weight	kg ca.	20	35	50	

* 110 V on request

OXYPLUS does not spray water out of the apparatus and runs almost silently. In the summer months, the water is only slightly warmed by the apparatus, in winter only slightly cooled. This is particularly important for winter feeding in watercourses fed by spring water!

OXYPLUS – the solution for healthy fish, optimum living conditions and better feed conversion!

Advantages

- highly efficient
- almost silent
- lightweight and compact
- pump grill not susceptible to blockage
- tested and reliable

OXYPLUS WITHOUT MOTOR

Oxygen enrichment system for use with an existing natural gradient.

Our **OXYPLUS** entry system works with very low pressure difference. This makes the use of our system possible, without a separate motor, where specific requirements are fulfilled.

OXYPLUS can then be used without an electric supply. You require only a supply of oxygen and our apparatus.

To use the system without a motor, you will need an existing gradient/hydraulic head, which, depending on the size of the apparatus, must be between 50 – 100 cm.

The pressure of this fall is sufficient to direct the water into the system's mixing device. Here the enrichment of the water with oxygen by special mixing equipment will be carried out – as in a system with motor.

The action and efficiency is the same as in the apparatus with motor.

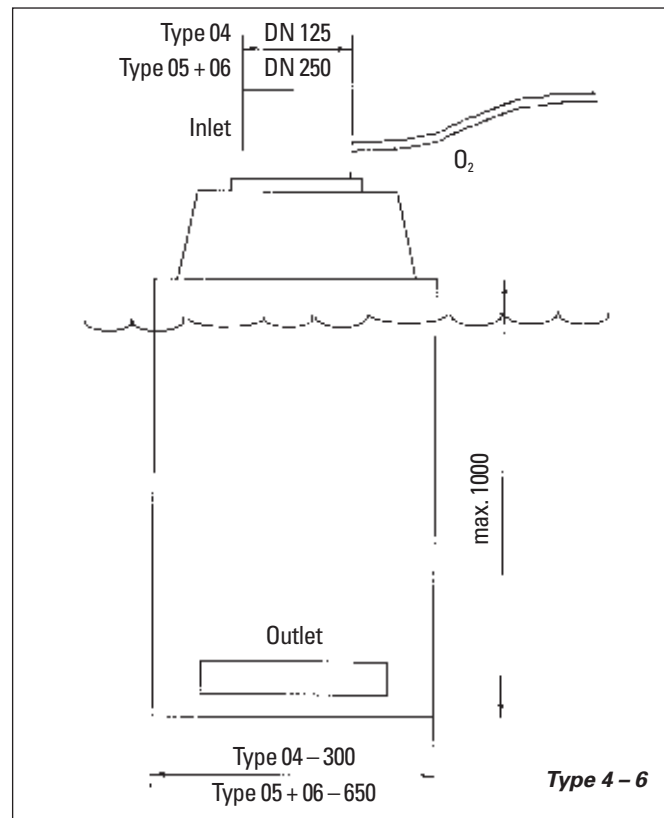
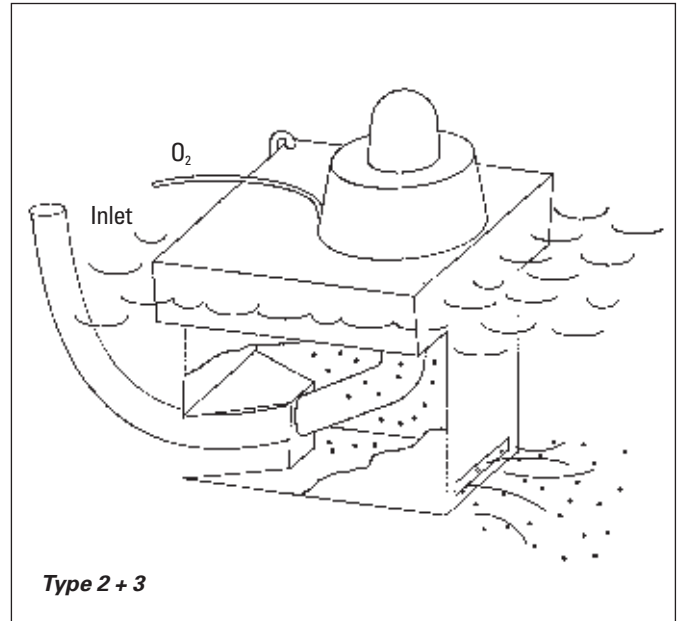
It is very important for operations without a motor where no electric current is used, that the necessary fall of water is achieved and that the volume of water flow is appropriate for the apparatus used. Differing volumes of water flow and pressure ratio alter the amount of oxygen taken up and so alter the efficiency of the system.

OXYPLUS without a motor can be supplied in several models:

Type 1-3/ floating models

For this model we use the basic float of the **OXYPLUS** apparatus with motor. Type 1 is, therefore, the same size and construction as the 0.25 kW model, Types 2 and 3 are the same as the 0.55/0.75 kW models.

The floating models are quick and easy to install and do not need an inlet screen or motor. The water is directed into the apparatus by a self-contained synthetic spiral hose, supplied.



Type 4-6/ stationary models

These models have a separate polyethylene housing which contains our own specially-developed mixing device.

The water with the required fall is directed into this container and enriched.

This is a stationary installed container and may also be built into a fall pipe. It is essential that the container is stabilised and firmly secured.

The height of the container can be varied by us (max. 100 cm), according to customer's requirements. In addition, it is possible to order different inlets and outlets.

Technical

Oxyplus gravity		Type 1	Type 2	Type 3	Type 4	Type 5	Type 6
Required water flow	l/s	14	32	42	5	32	42
	m ³ /h	50	115	150	17	115	150
Min. head	cm	50	60	90	50	60	90
O ₂ enrichment max.	l/min	9	17	25	4	17	25
	m ³ /h	0.5	1.0	1.5	0.24	1.0	1.5
Dimensions	cm	∅ 105 H 110	100 x 105 x 120		∅ 30	∅ 65 H max. 100	