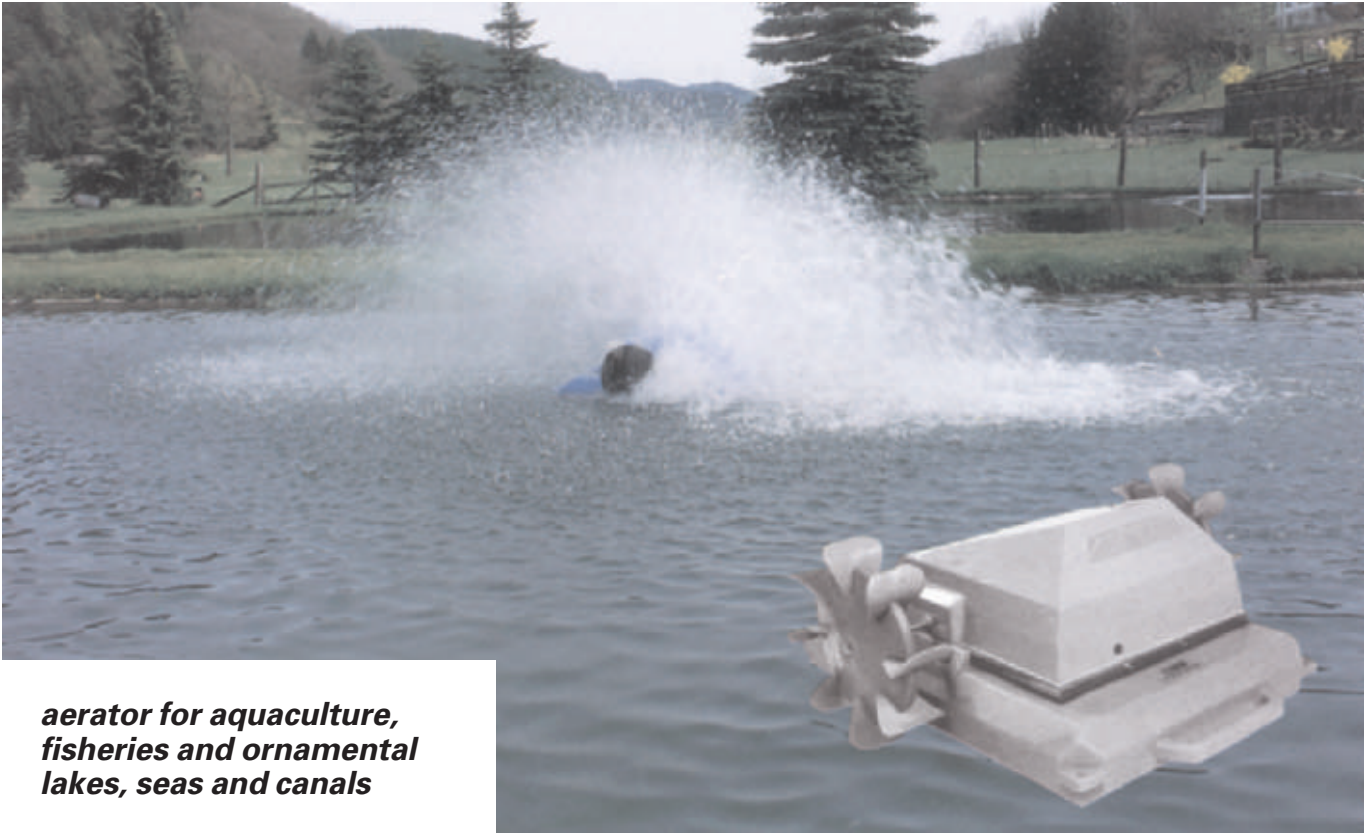


## Paddle-wheel-aerator



*aerator for aquaculture, fisheries and ornamental lakes, seas and canals*

The **AQUA-WHEEL** paddle-wheel aerators work by considerably increasing the surface area of the water, giving much improved exchange of gases between the air and water. They do this by breaking the water into tiny droplets and flinging them up into the air. The droplets are then able to take up oxygen and discharge to the atmosphere polluting gases, such as carbon dioxide. An added benefit is the increased circulation of the water, which distributes the oxygen-enriched water.

**AQUA-WHEEL** requires almost no maintenance. The paddle wheels turn slowly, and are only slightly submerged in the water, so in most cases a protective screen is not required.

The **AQUA-WHEEL** aerator is available in a variety of sizes to suit individual requirements. Common to all sizes is the exceptionally buoyant float. With **AQUA-WHEEL**, we have made ease of use a priority.

**AQUA-WHEEL** is relatively light-weight, so making it easy to install in the desired position. Practical carrying handles are moulded directly onto the sides of the float.

Fastening and anchoring could not be easier. This can be achieved either by means of a fastening rope in the form of a V, or by a single rope attachment, or even by a locking mechanism on rods. This allows for assembly and dismantling on your pond.

### Materials

**AQUA-WHEEL** is driven with a high quality, slow running electric motor (IP55). The motor is mounted above the water surface.

Power from the motor is transmitted by a simple tooth belt drive (except the 0.25 kW, where a gear motor is used). This results in reliable operation, long life and minimal energy consumption.

The wheels are connected to a one-piece stainless steel shaft held by sealed ball-bearings. For the mountings, shafts and screws, only stainless steel is used. The float and the motor cover are made of robust, UV-resistant polyethylene.

The paddle wheel has been specially developed for aeration function, maximising both the transfer of oxygen, and the dispersal of waste gases. The shape of the wheel and the

paddles guarantee optimum water circulation and distribution with minimum power requirements. Its design creates a powerful current, making this aerator especially valuable where flow is required.

The paddles are robust and durable, and can be replaced quickly and easily. **AQUA-WHEEL** is supplied ready to use, complete with cable and motor-protection-device.



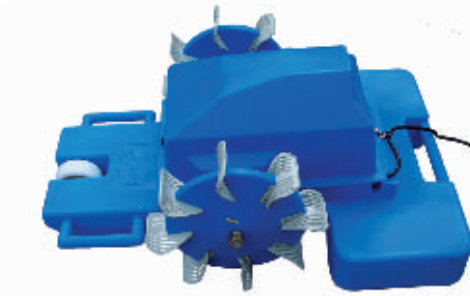
*Aqua-Wheel 0,37 kW with brush wheels (generating a strong flow).*

## Screen protection or brush wheels

Where fish are stocked very densely, in spawning ponds or ponds with young fish, the fish might sustain injuries from the paddle wheels. We can offer two solutions.

As an alternative to the paddle wheels, the 0.37 kW **AQUA-WHEEL** is now available with new brush wheels. These flexible brushes will not harm the fish. In addition, floating objects in the pond cannot damage the wheel.

A second alternative in the case of dense stocks is to use stainless steel screen-baskets (mesh size 9.5 or 5.5 mm), available for the 0.25, 0.55 and 1.1 kW sizes. Due to the large water flow, these screen-baskets are self-cleaning and remain virtually free from clogging.



## Different Sizes

**AQUA-WHEEL** is available in different sizes:

### 0,25 kW

- one paddle wheel
- U-float
- gear-motor

### 0,37 kW

#### NEW version!

- two paddle wheels
- T-float with transport-wheel
- belt drive
- especially versatile

### 0,55 (0,40) kW

- two paddle wheels
- U-float
- belt drive
- power adjustable (0,40 or 0,55 kW)

### 1,1 kW

- four paddle-wheels
- U-float
- belt drive

## Technical

Motor rating	kW	0.25	0.37	0.55 (0.40)	1.1
Power take up	W	380	580	840 (600)	1400
Voltage	V	230/400	230/400	230/400**	230/400**
Motor	rpm	1400	920	920	920
Paddle wheel revolutions	rpm	151	150	190	190
Water ejection horizontal	m	1.5	1.6	1.8 (1.6)	2.0
Water ejection vertical	m	1.2	1.2	1.5 (1.4)	1.50
Water flow speed	m/sec*	0.4	0.6	0.6	0.8
Minimum water depth	m	0.25	0.25	0.30	0.50
Suction depth	m	0.90	1.0	1.5 (1.0)	1.8
Active zone	m	40	55	70 (50)	100
Dimensions	LxWxH – cm	100 x 76 x 50	110 x 75 x 46	100 x 110 x 50	100 x 135 x 50
Weight	kg	30	35	40	50

\* Water flow speed determined at a distance of 8 m.

\*\* 110 V on request

## Advantages:

- *best possible oxygen-enrichment*
- *best possible water-circulation*
- *non-clogging*
- *convenience and low maintenance*
- *rating adjustable (550 W)*
- *ready for use*
- *minimum energy-consumption*