# Amazing Water

Purifying
Moving
Designing
Vitalising
Lighting
Installation

## Mixers and aerators

Programme and technical specifications 2023

35 Amazing Water
1988 / 2023

AUGA
AmazingWater

# WATER VITALISING

*Fish death due to oxygen deficiency.*

*Suffocation caused by duckweed.*

*Odour nuisance caused by oxygen deficiency.*

Water movement and aeration is crucial for improving water quality and is indispensable in every water culture. Oxygen-rich water contributes to the biodegradation of organic substances in the water.

AUGA builds aerators and mixers for optimising and maintaining water quality in a diversity of waters, where the risk of algae formation, odour nuisance, oxygen deficiency, fish mortality and stratification significantly reduces.

*Temperature reduction.*

*Cyanobacteria.*

*Keep water free of ice.*

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# VITALISING WATER

## PUBLIC WATER AND RECREATIONAL LAKES

Stagnant - and often shallow - water could be a source of nuisance in rising temperatures. In addition to fish deaths due to oxygen deficiency, the water starts to smell, becomes infested with mosquitoes and suffers from excessive algae growth due to the water heating up.

During warm periods, water in particularly cities, parks, campsites and other recreational sites has to regularly deal with these issues and it could even result in a swimming ban.

Another problem occurs with excessive rainfall. Rainwater is still frequently drained via the sewer system. During downpours this system is often overloaded and emergency overflows take effect, which often results in water arriving in public ponds. The discharged sewage water leads to acute oxygen deficiency causing mass fish deaths.

## INDUSTRY

A lot of water is reused in industry such as rinsing water for the fruit and vegetable processing industry.
The quality of rinsing water is significantly increased if it is mixed and aerated, and solid substances such as sand are separated more efficiently from the rinsing water. Mixing and aeration also reduces odours.

## STORAGE WATER IN GREENHOUSES

Storage water in greenhouses is used for sprinkling/drip irrigation. Stagnant water causes algae growth and can result in disruptions to micro-sprinkling systems.
sprinkler systems. Circulating and aerating water combats algae formation and the storage water stays fresh.

## FISHING WATERS

Declining fish catches and fish deaths: two major problems in fishing ponds. When fishing clubs periodically increase the number of fish in the ponds they manage, the biomass can become greater than the pond's carrying capacity. As time passes the fish stock will return to the carrying capacity, which means that sooner or later the condition of the added fish will deteriorate or they could even die.

Mixing the water layers and adding oxygen increases the carrying capacity, with the aim of maintaining the quantity of fish in a pond at a higher level for a long time.

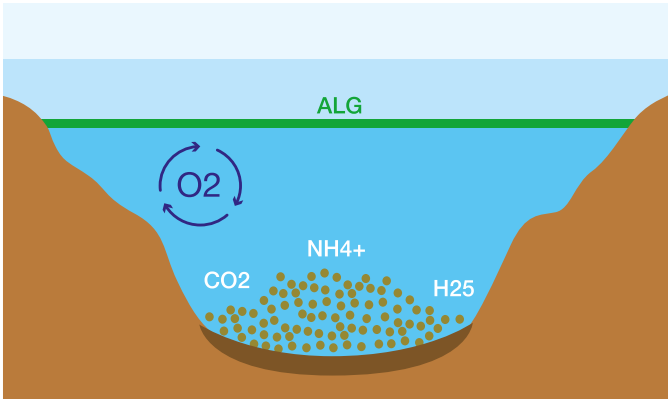
## MOATS

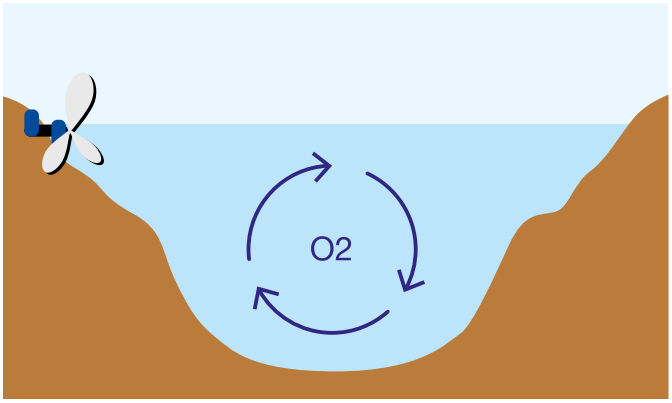
Moats mainly play an aesthetic role around castles and country homes. When maintaining a moat, stagnant and foul-smelling water, fluctuating water levels, duckweed entirely covering the surface and sediment can be real problems.

Adding circulation to the water and mixing water layers significantly improves its quality, contributes to soil amelioration, keeps duckweed in check and oxygenates the lower water levels.

| Type | Flow | MegaFlow | AirFlow | Mega AirFlow | Megaflow combi | S-Flow | V-Flow | Airtec | AirTec Pro |
|---|---|---|---|---|---|---|---|---|---|
| Oxygenation | | | ● | ● | ● | ● | ● | | |
| Circulation | ● | ● | ● | ● | ● | | | | |
| Anti-layer formation | ● | ● | ● | ● | ● | | | | |
| Flotation | | | ● | ● | | | | | |
| Soil amelioration | | | ● | ● | ● | | | | |
| Temperature reduction | ● | ● | | | | ● | | | |
| Aeration | | | ● | ● | ● | ● | ● | ● | ● |
| Degassing | | | ● | ● | | ● | | | |
| Keeping water free of ice | ● | ● | ● | ● | ● | | | ● | ● |
| Decorative fountain | | | | | | | ● | | |
| Noise level | 0 | 0 | 00 | 00 | 00 | 000 | 000 | 0 | 0 |

## Flow mixers in floating and fixed arrangement




### Mixers for ponds, moats and fish ponds

To create a healthy aquatic ecosystem, achieving a homogeneous water zone composition is crucial. It regulates the concentration of nutrients, oxygen and temperature, which is usually blocked (stratification) in the upper water layer, depending on the shape of the pond or basin.

Good circulation helps prevent the accumulation of dirt and the formation of gas due to the organic breakdown of bottom debris and is cost effective because less maintenance is required.

Mixers create water currents that add oxygen and are rich in nutrients, allowing fish and other aquatic life to thrive.

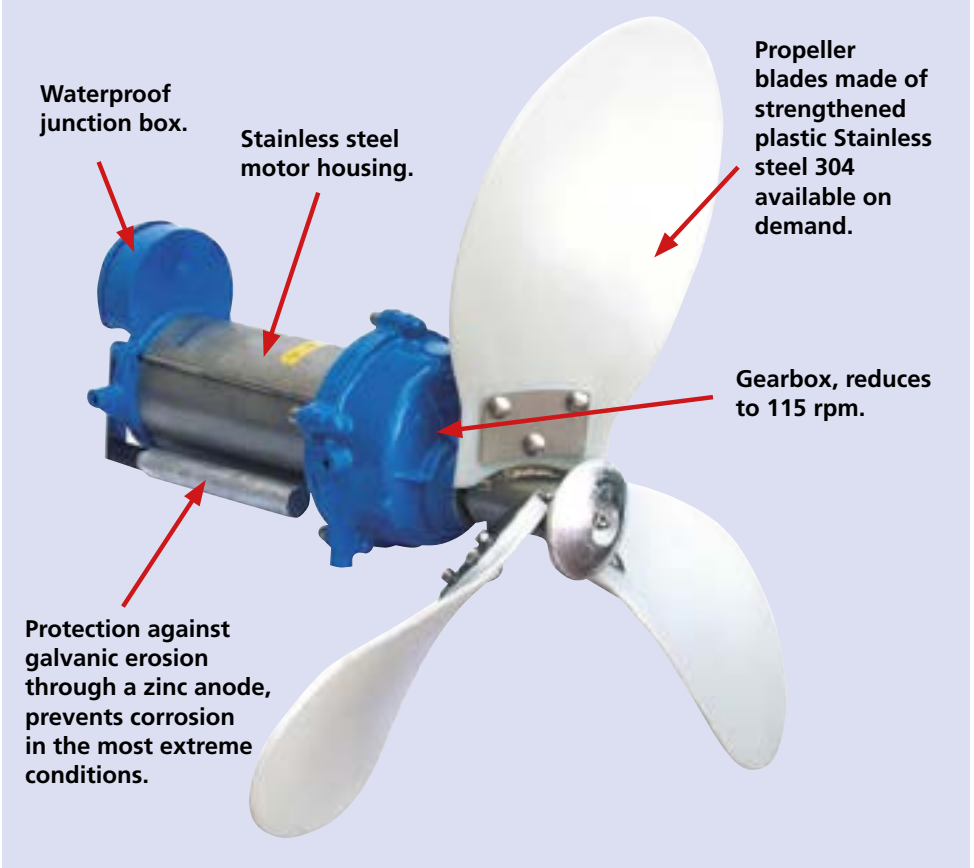
Circulation is also an excellent solution for limiting algae blooms. The adjustable position of the motor facilitates optimum placement in the water.

### Mixers for waste water and recycling water

It goes without saying that water is a valuable resource. The need to reuse wastewater that is used in a production process that uses a lot of water is undeniable. The control of costs to obtain the desired water quality for re-use are equally significant.

The mixers and aerators are stand-alone units that can be fixed or floating, without the need for additional structural facilities. Because the equipment runs just below the surface of the water, its efficiency is high.

## MegaFlow mixers




## Technology

The specially designed motors are the powerhouse behind any installation and are built for continuous use under highly variable conditions with a wide variety of applications.

- Suitable for freshwater and saltwater.
- Oil-immersed double mechanical seal (oil biodegradable).
- Bronze or stainless-steel motor housing.
- Motor cables can be supplied in any length.
- 230 V connection voltage.
- 1 Ph (up to 1.5 kW), 400 V 3 Ph, other voltages available on request.
- Tailor-made systems available.

## Flow mixers

Flow propeller mixers provide circulation and mix the water layers in stagnant water in moats, ponds, lakes and storage basins.

| Type | Configuration | P2 motor kW | Voltage V/Hz | Cable m | L x W x H mm | Art. no. |
|---|---|---|---|---|---|---|
| Flow 37 F | Floating | 0.37 | 230/50 | 20 | 980 x 980 x 770 | 103101 |
| Flow 37 S | Fixed | 0.37 | 230/50 | 20 | 556 x 590 x 530 | 103100 |
| Flow 75 F | Floating | 0.75 | 230/50 | 20 | 980 x 980 x 770 | 103104 |
| Flow 75 S | Fixed | 0.75 | 230/50 | 20 | 556 x 590 x 530 | 103102 |
| Flow M-150 F | Floating | 1.50 | 230/50 | 20 | 980 x 980 x 770 | 103106 |
| Flow M-150 S | Fixed | 1.50 | 230/50 | 20 | 556 x 590 x 530 | 103105 |

**Flow 75 S - Fixed arrangement**

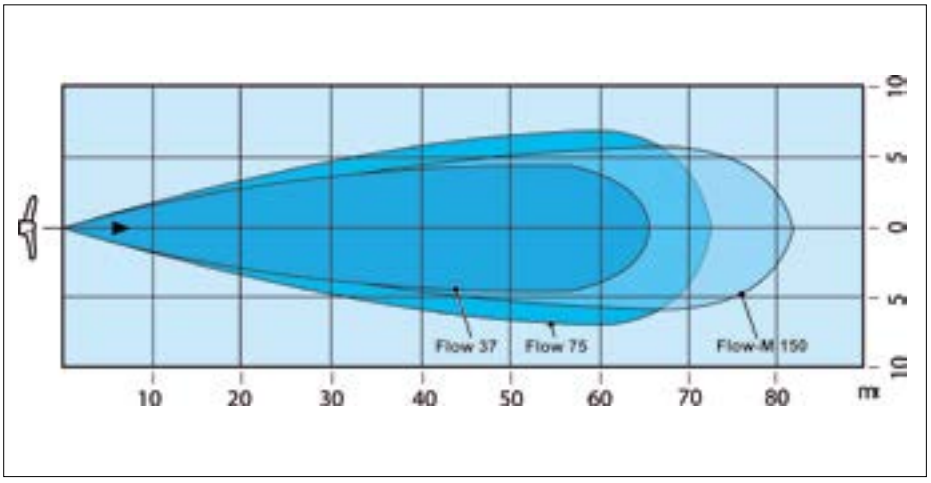
**Flow 75 F - Floating set-up**

### Applications

- Circulation.
- Anti-layer formation.
- Temperature reduction.
- Keeps water free of ice.

### Technical information

- Variable flow angle.
- Base plate with counterweight.
- Protective cage around the propeller.
- Inc. anchoring eyelets.
- Also available in 400 V 3 Ph.
- Motor cable can be supplied in any length.
- 'F' model with plastic float.
- Types 37 and 75: 1400 tpm.
  Type 150: 2800 tpm.




*Work area*

- Control pump, see page 22.
- Anchoring set, see page 23.

## MegaFlow mixers

MegaFlow mixers circulate very large quantities of water with low energy consumption, suitable for large-scale water projects.

| Type | Configuration | P2 motor kW | Voltage V/Hz | Cable m | L x W x H mm | Art. no. |
|---|---|---|---|---|---|---|
| MegaFlow 75 F | Floating | 0.75 | 230/50 | 20 | 1958 x 1860 x 1306 | 103114 |
| MegaFlow 75 S | Fixed | 0.75 | 230/50 | 20 | 1958 x 1006 x 1306 | 103112 |
| MegaFlow 150 F | Floating | 1.50 | 230/50 | 20 | 1958 x 1860 x 1306 | 103116 |
| MegaFlow 150 S | Fixed | 1.50 | 230/50 | 20 | 1958 x 1006 x 1306 | 103115 |

### MegaFlow 150 F - Floating set-up

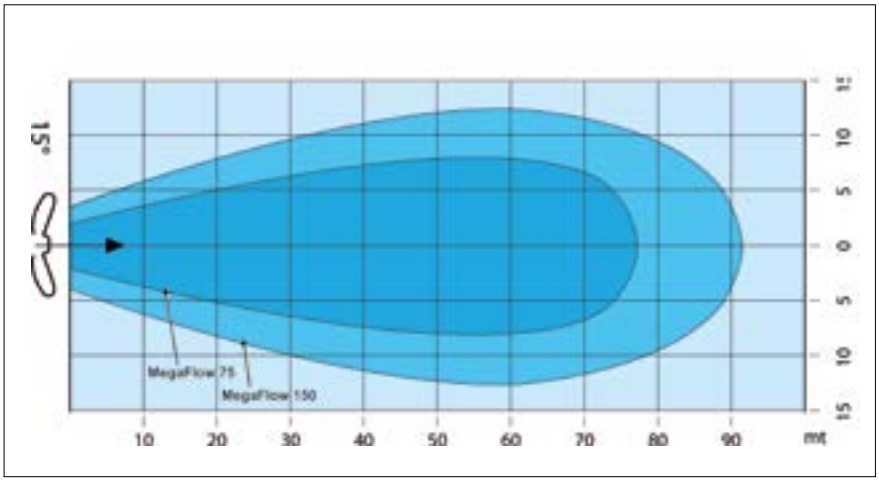
### MegaFlow for wall installation

### Applications

- Circulation.
- Anti-layer formation.
- Temperature reduction.
- Keeps water free of ice.

### Technical information

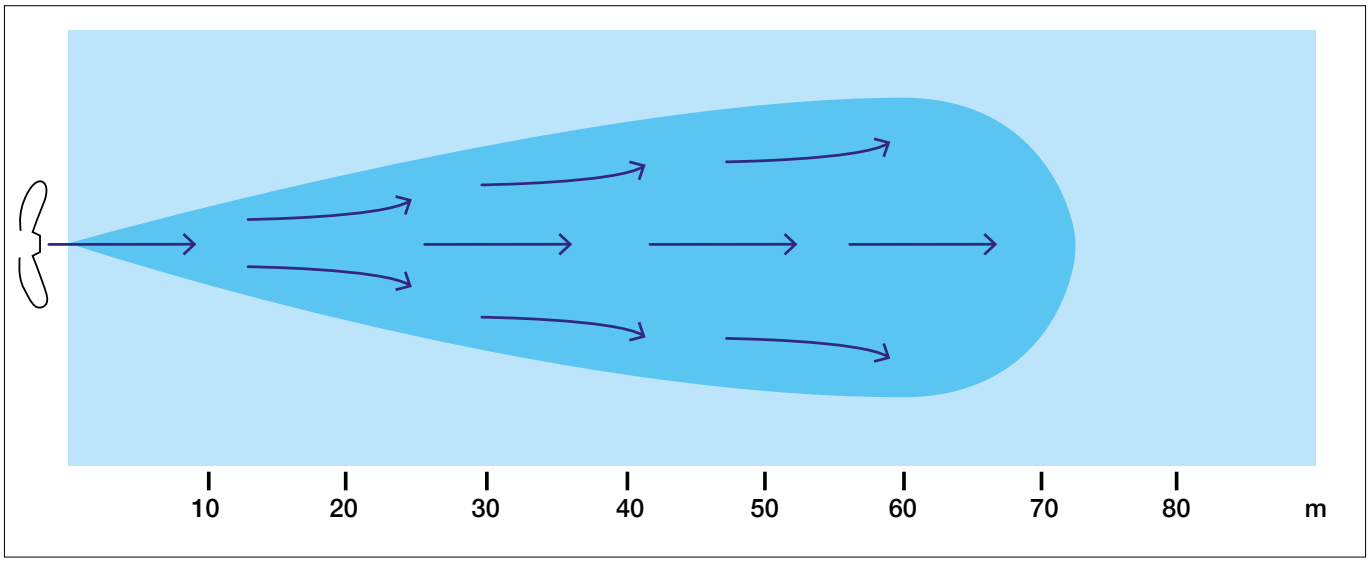
- Variable flow angle.
- Low-speed motor:
  Type 75: 1400/123 rpm
  Type 150: 1400/112 rpm
- Also available in 400 V.
- Motor cable can be supplied in the required length.
- Fixed and floating configuration.
- Alternative constructions possible.
- 'F' model with plastic float.




*Work area*


- Control pump, see page 22.
- Anchoring set, see page 23.

## AirFlow aerators in floating and fixed installation



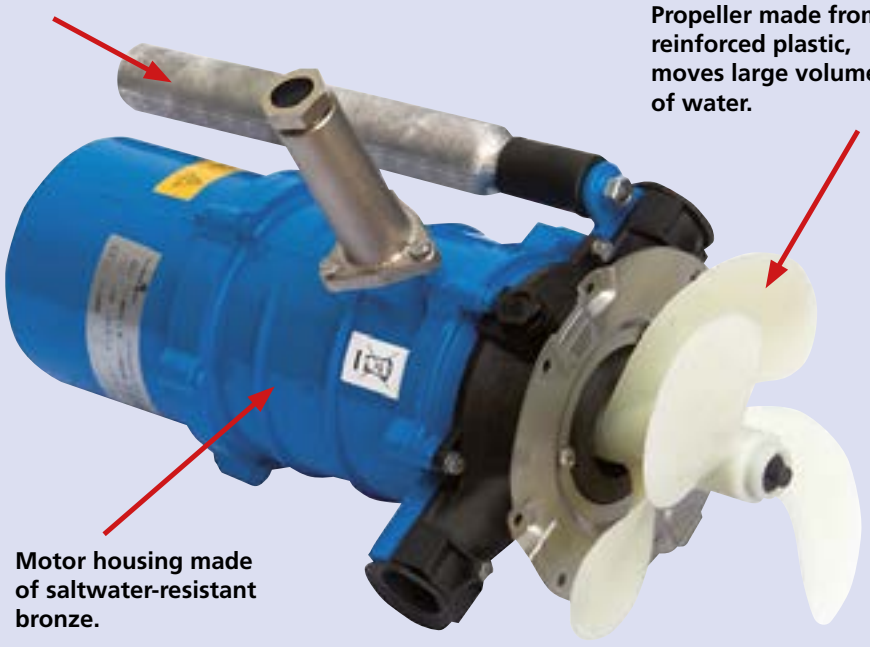

### Moving and aerating

Underwater aeration is achieved through systems that inject air at certain depths and dissolve air/oxygen in micro bubbles. The large contact surface of these bubbles enables them to transport oxygen throughout the entire water column.

The horizontal movement increases the contact time between air and water, prevents loss of oxygen and increases the oxygen transfer rate.

On top of that, horizontal movement also prevents bottom erosion when applied in bodies of water with a natural bottom. The underwater aerator ensures its entire working range is richly oxygenated, mixed and circulated.

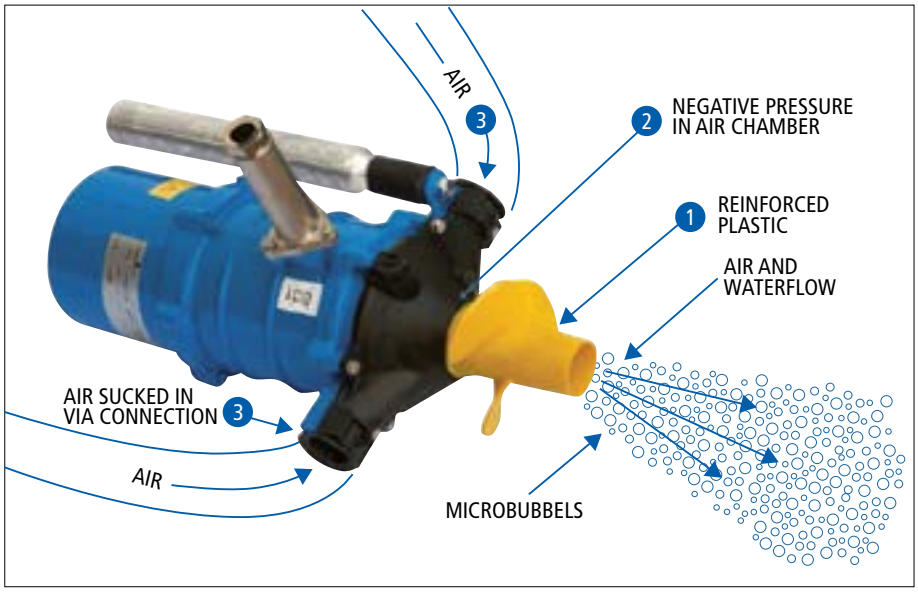
## AirFlow aerators




## Technology

The specially designed motors are the powerhouse behind any installation and are built for continuous use under highly variable conditions with a wide variety of applications.

- Suitable for freshwater and saltwater.
- Oil-immersed double mechanical seal (oil biodegradable).
- Bronze or stainless-steel motor housing.
- Motor cables can be supplied in any length.
- 230 V connection voltage.
- 1 Ph (up to 1.5 kW), 400 V 3 Ph, other voltages available on request.
- Tailor-made systems available.




## How it works

The propeller (1) moves large amounts of water creating a vacuum in the air chamber (2) and air is sucked in through the connections (3). The propeller pump carries the air bubbles that have been drawn in along with the water current (4)

## AirFlow aerators

AirFlow propeller pumps combine the power of movement with injected air in the form of micro-bubbles, which are absorbed in water, necessary for an accelerated biodegradation of organic substances and important for all water life.

| Type | Configuration | P2 motor kW | Voltage V/Hz | Capacity | | Cable m | L x W x H mm | Art. no. |
|---|---|---|---|---|---|---|---|---|
| | | | | $m^3/h$ | $O^2/m^3$ | | | |
| AirFlow 37 F | Floating | 0.37 | 230/50 | 70 | 15 | 20 | 980 x 980 x 770 | 103162 |
| AirFlow 37 S | Fixed | 0.37 | 230/50 | 70 | 15 | 20 | 556 x 590 x 530 | 103151 |
| AirFlow 75 F | Floating | 0.75 | 230/50 | 80 | 20 | 20 | 980 x 980 x 770 | 103155 |
| AirFlow 75 S | Fixed | 0.75 | 230/50 | 80 | 20 | 20 | 556 x 590 x 530 | 103152 |
| AirFlow 110 F | Floating | 1.10 | 230/50 | 150 | 30 | 20 | 980 x 980 x 770 | 103156 |
| AirFlow 110 S | Fixed | 1.10 | 230/50 | 150 | 30 | 20 | 556 x 590 x 530 | 103153 |

**AirFlow 75 S**

**AirFlow 110 F**

### Applications

- Oxygenation.
- Circulation.
- Anti-layer formation.
- Flotation.
- Soil amelioration.
- Aeration.
- Degassing.
- Keeps water free of ice.

### Technical information

- Variable flow angle.
- Integrated Venturi system.
- Base plate with counterweight.
- Protective cage around the propeller.
- Inc. anchoring eyelets.
- Also available in 400 V 3 Ph.
- Motor cable can be supplied in the required length.
- 'F' model with plastic float.
- Speed 2800 rpm.


- Control pump, see page 22.
- Anchoring set, see page 23.

## Mega AirFlow aerators

The powerful Mega AirFlow propeller pump provides a very large capacity, combined with oxygen injection and is ideal for use in large water projects.

| Type | Configuration | P2 motor kW | Voltage V/Hz | Cable m | L x W x H mm | Art. no. |
|---|---|---|---|---|---|---|
| Mega AirFlow 220 F | Floating | 2.2 | 400/50 | 20 | 1000 x 1200 x 1390 | 103166 |
| Mega AirFlow 300 F | Floating | 3.0 | 400/50 | 20 | 1000 x 1200 x 1390 | 103167 |

### Mega AirFlow 220 F

### Applications

- Oxygenation.
- Circulation.
- Anti-layer formation.
- Flotation.
- Aeration.
- Degassing.
- Keeps water free of ice.
- Soil amelioration.

### Technical information

- Variable flow angle up to 45°.
- Integrated Venturi system.
- Motor cable can be supplied in the required length.
- 'F' model with plastic float.
- Speed 2800 rpm.


- Control pump, see page 22.
- Anchoring set, see page 23.


## MegaFlow Combi

Combi-systems, consisting of a MegaFlow mixer and an AirFlow aerator, integrated in a power unit, to provide aeration and circulation for large quantities of water in large-scale water projects.

| Type | Configuration | P2 motor kW | Voltage V/Hz | Cable m | L x W x H mm | Art. no. |
|---|---|---|---|---|---|---|
| MegaFlow Combi 75 / AirFlow 110 F | Floating | 0.75 + 1.10 | 230/50 | 20 | 1958 x 1860 x 1306 | 103171 |
| MegaFlow Combi 75 / AirFlow 110 S | Fixed | 0.75 + 1.10 | 230/50 | 20 | 1958 x 1006 x 13006 | 103170 |
| MegaFlow Combi 150 / AirFlow 110 F | Floating | 1.5 + 1.10 | 230/50 | 20 | 1958 x 1860 x 1306 | 103173 |
| MegaFlow Combi 150 / AirFlow 110 S | Fixed | 1.5 + 1.10 | 230/50 | 20 | 1958 x 1006 x 13006 | 103172 |

**MegaFlow Combi / AirFlow**

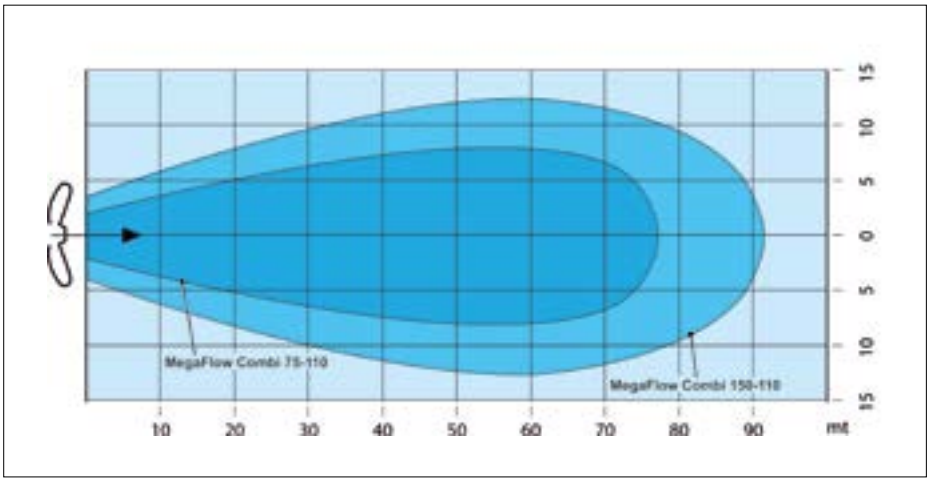
**MegaFlow in operation**

### Applications

- Oxygenation.
- Circulation.
- Anti-layer formation.
- Soil amelioration.
- Aeration.
- Keeps water free of ice.

### Technical information

- Variable flow angle.
- Also available in 400 V.
- Motor cable can be supplied in any length.
- Fixed and floating set-up.
- More designs possible.
- 'F' model with plastic float.
- Speed 1400 / 2800 rpm.




*Work area*


- Control pump, see page 22.
- Anchoring set, see page 23.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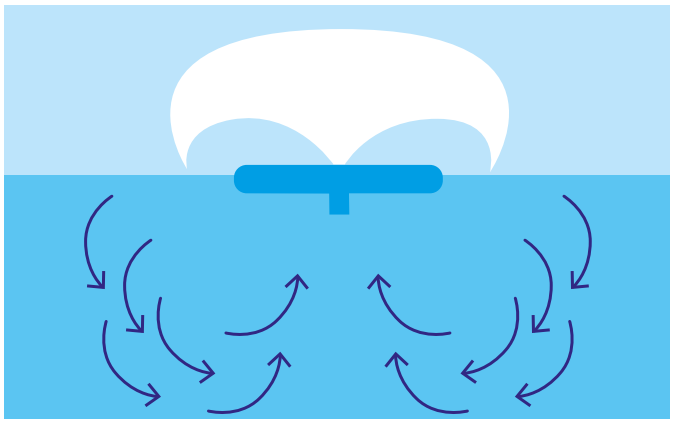
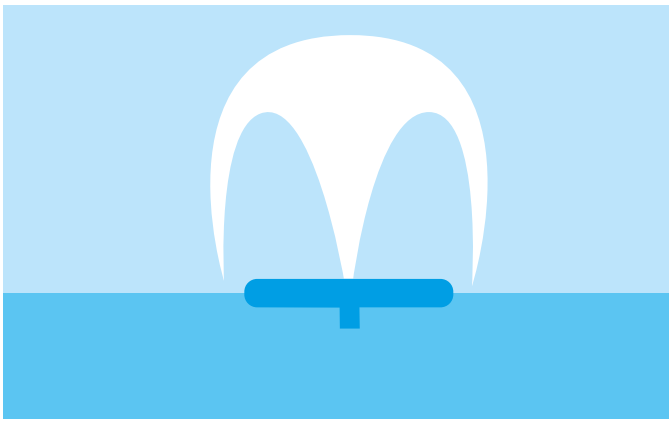
## S-Flow volume aerators and V-Flow fountain aerators





### Aeration of fish ponds, public ponds and fish farms

Surface aeration is extremely important in situations where degassing is essential. In many cases, the removal of dangerous gases – which are extremely harmful to fish and the overall water quality – is much more important than simply aerating the water.

### S-Flow volume aerators

The surface aerator pumps a large volume of water into the air, releasing ammonia and carbon dioxide, and then releases oxygen back into the water. It creates a thoroughly mixed, aerated zone around the unit, producing a better aquatic environment without stratification.

### V-Flow Fountain aerators

Fountain aerators increase the water's oxygen content, thus increasing the volume of the fountain pattern without disturbing the bottom of the pond. As the pumps are highly dirt-resistant, they are particularly suitable for use in public bodies of water. The addition of coloured LED lighting adds to the fun in the evenings.

### Technology

The specially designed motors are the powerhouse behind any installation and are built for continuous use under highly variable conditions with a wide variety of applications.

- Oil-immersed double mechanical seal (oil biodegradable).
- Bronze or stainless-steel motor housing.
- Motor cables can be supplied in any length.
- Connection voltage 230 V 1 Ph (up to 1.5 kW), 400 V 3 Ph, other voltages available on request.

**S-Flow**

**V-Flow Pro**

**V-Flow Economic**

## S-Flow volume aerators

The enormous water displacement results in a temperature reduction of heated water, degassing and oxygenation.

| Type | Configuration | P2 motor kW | Voltage V/Hz | Capacity $m^3/h$ | Cable m | L x W x H mm | Art. no. |
|---|---|---|---|---|---|---|---|
| S-Flow 37 F | Floating | 0.40 | 230/50 | 120 | 20 | 680 x 680 x 486 | 103165 |
| S-Flow 75 F | Floating | 0.75 | 230/50 | 192 | 20 | 680 x 680 x 486 | 103159 |
| S-Flow 110 F | Floating | 1.10 | 230/50 | 186 | 20 | 680 x 680 x 486 | 103160 |
| S-Flow 150 F | Floating | 1.50 | 230/50 | 222 | 20 | 680 x 680 x 486 | 103163 |
| S-Flow 220 F | Floating | 2.20 | 400/50 | 324 | 20 | 680 x 680 x 486 | 103164 |

### S-Flow top view

### S-Flow front view

### Applications

- Oxygenation.
- Temperature reduction.
- Aeration.
- Degassing.

### Technical information

- Protective cage around the propeller pump.
- Inc. anchoring eyelets.
- Also available in 400 V 3 Ph.
- Motor cable can be supplied in the required length.
- Plastic float.
- Highly resistant to dirt.
- Types 37 and 75: 1400 tpm.
- Types 110, 150 and 220: 2800 tpm.


- Control pump, see page 22.
- Anchoring set, see page 23.

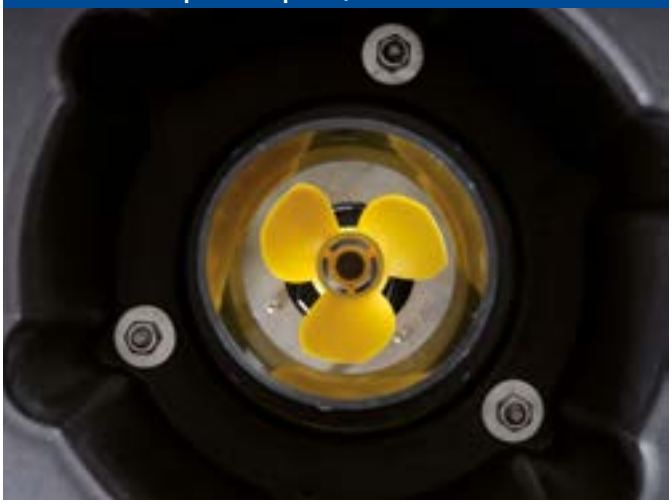

## V-Flow Pro Fountain Aerators

Fountain aerators are multi-functionals; the voluminous fountain sculpture is a beautiful eye-catcher in garden and park ponds and also increases the oxygen content of the water. By reducing the temperature of warming surface water, algae formation is controlled and water quality increased.

The open propeller impeller makes the fountain aerators highly dirt-resistant and particularly suitable in natural ponds, canals and open water.

**V-Flow Pro**

**Propeller impeller, dirt-insensitive**



| Type | Configuration | P2 motor kW | Voltage V/Hz | Fountain form | | | Cable | Diam. x height mm | Art. no. |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ø m | H max m | m³/hour | | | |
| V-Flow Pro 60 F | Floating | 0.60 | 230/50 | 5.50 | 1.30 | 60 | 20 | 980 x 770 | 103168 |
| V-Flow Pro 60 F | Floating | 0.60 | 400/50 | 5.50 | 1.30 | 70 | 20 | 980 x 770 | 103176 |
| V-Flow Pro 75 F | Floating | 0.75 | 230/50 | 6.50 | 1.70 | 60 | 20 | 980 x 770 | 103157 |
| V-Flow Pro 75 F | Floating | 0.75 | 400/50 | 6.50 | 1.70 | 60 | 20 | 980 x 770 | 103169 |
| V-Flow Pro 110 F | Floating | 1.10 | 230/50 | 7.00 | 1.90 | 90 | 20 | 980 x 770 | 103158 |
| V-Flow Pro 110 F | Floating | 1.10 | 400/50 | 7.00 | 1.90 | 90 | 20 | 980 x 770 | 103175 |

**V-Flow Pro 110 F**

**With warm white lighting**

**RGBW lighting**

| Floodlights selection table (optional) | | | | |
|---|---|---|---|---|
| Type | Number per set | Power consumption | Light source | Art. no. |
| LSX 18-3 WW | 3 | 3 x 18 W | LED warm white 3000 K. | 104042 |
| LSX 24-3 RGBW | 3 | 3 x 24 W | LED RGBW | 104043 |

| | |
|---|---|
| Visibility | ● ● ● ● ● |
| Wind resistance | ● ● ● ● ● |
| Noise level | ● ● ● ● ● |


- Control pump and floodlights, see page 22.
- Anchoring set, see page 23.

## V-Flow Pro Fountain Aerators

Powerful fountain aerator equipped with highly efficient and energy-efficient PM motor. Fully adjustable in capacity/fountain height and power consumption. These installations are used in large ponds to improve water quality and as a large, decorative fountain.

| Type | Configuration | P2 motor kW | Voltage V/Hz | Fountain form | | | Cable | Diam. x height mm | Art. no. |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ø m | H max m | m³/hour | | | |
| V-Flow Pro 220F | Floating | 0 -2.20 | 230/50 | 0 > 7.50 | 0 > 3.50 | 0 > 200 | 20 | 980 x 770 | 103174 |
| V-Flow Pro 220 F | Floating | 0 -2.20 | 400/50 | 0 > 7.50 | 0 > 3.50 | 0 > 200 | 20 | 980 x 770 | 103177 |

**V-Flow Pro 220 F**

**V-Flow Pro 220 F**

## Technical data

### Applications

- Decorative fountain for large ponds.
- Aeration.
- Oxygenation.
- Temperature reduction surface water.
- Algae control.

**Frequency inverter IP 65**

### Technical information V-Flow Pro 220 F

- Industrial high-efficiency PM motor, suitable for continuous operation.
- Motor housing made entirely of bronze, brackish water resistant.
- Propeller impeller, highly dirt-resistant.
- Large protective basket as protection against large components (wood, plastic, etc.) and protection for fish.
- Flat, inconspicuous float.
- Delivery includes frequency converter for manual adjustment of fountain height capacity.

### Technical information AC drive

- Version IP 20 for installation in a main control cabinet.
- Version IP 65 for outdoor installation, without further pump/light control.

The V-Flow Pro 220 F is equipped with a PM motor (permanent DC motor). The motor is controlled by the frequency controller supplied, this allows the motor speed - and fountain height - to be changed as required.

**Floodlights selection table (optional)**

| Type | Number per set | Power consumption | Light source | Art. no. |
|---|---|---|---|---|
| LSX 18-3 WW | 3 | 3 x 18 W | LED warm white 3000 K. | 104042 |
| LSX 24-3 RGBW | 3 | 3 x 24 W | LED RGBW | 104043 |

| | |
|---|---|
| Visibility | ● ● ● ● ● |
| Wind resistance | ● ● ● ● ● |
| Noise level | ● ● ● ● ● |


- Control pump and floodlights, see page 22.
- Anchoring set, see page 23.

## V-Flow Economic Fountain aerators

The motor technology is similar to the Pro series - in this series there is no large protective basket, the square float is more visible on the surface of the water.

| Type | Configuration | P2 motor kW | Voltage V/Hz | Fountain form | | | Cable | Diam. x height mm | Art. no. |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ø m | H max m | m³/hour | | | |
| V-Flow 37 FE | Floating | 0.37 | 230/50 | 4.00 | 1.20 | 50 | 20 | 680 x 486 | 103192 |
| V-Flow 60 FE | Floating | 0.60 | 230/50 | 5.50 | 1.30 | 60 | 20 | 680 x 486 | 103193 |
| V-Flow 75 FE | Floating | 0.75 | 230/50 | 6.50 | 1.70 | 60 | 20 | 680 x 486 | 103190 |
| V-Flow 110 FE | Floating | 1.10 | 230/50 | 7.00 | 1.90 | 90 | 20 | 680 x 486 | 103191 |

### V-Flow Economic

### V-Flow Economic top view

No floodlights are applicable in the Economic version.

| | |
|---|---|
| Visibility | ● ● ● ● ● |
| Wind resistance | ● ● ● ● ● |
| Noise level | ● ● ● ● ● |

- Control pump, see page 22.
- Anchoring set, see page 23.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## Scope of delivery and expansion options

### Control units for pumps

| Description/function | Pump | Pump |
|---|---|---|
| **Design** | **230 V** | **400 V** |
| **Pump** | | |
| 20 m power cable for pump[1] | ✔ | ✔ |
| **Pump control 230 V** | | |
| Capacitor box with on/off operating switch (except AT15/AT30/AT35) | ✔ | – |
| **Extension options pump control 230 V** | | |
| Digital timer for pump | Optional | – |
| Frequency converter for adjustment capacity/fountain height | Optional | – |
| Working switch pump on \| 0 \| timer | Optional | – |
| **Basic control pump 400 V** | | |
| Control box with motor protection and working switch ***on \| off*** | – | Optional |
| **Expansion options for pump control 400 V** | | |
| Digital timer for pump | – | Optional |
| Working switch pump ***on \| 0 \| timer*** | – | Optional |
| Frequency converter for adjustment capacity/fountain height | – | Optional |

✔ = Included with delivery.
[1] = Extension of power cable possible.

Controls for pump and lighting are merged in one control box.

### Controllers for LED lighting

| LED lighting | Warm/White | RGBW |
|---|---|---|
| 20 m power cable for light[2] | ✔ | ✔ |
| **Basic control LED lighting set, Primary 230 V or 400 V, secondary 24 V DC** | | |
| 230 V: Transformer 230/24 V<br>400 V: The supply cable must have a 0 line (3 Ph-0-A) if present, control is adjusted accordingly | ✔ | ✔ |
| Remote control. (Remote control) | Optional | ✔ [1] |
| Dimming LED lighting | Optional | ✔ [1] |
| Colour choice and colour change RGBW programme | – | ✔ [1] |
| Touchscreen RGBW (in control box) | – | Optional |
| **Selection table extension timers for lighting** | | |
| Digital timer for lighting | Optional | Optional |
| Timer with light sensor (on cabinet or external, with 5-metre cable) | Optional | Optional |
| Digital Astro time clock (switches on at sunset) | Optional | Optional |
| Working switch for lighting ***on \| 0 \| timer*** | Optional | Optional |

**If a timer is chosen for pump and lighting, we build in 1 combination timer.**

| Basic control unit | Pump | Pump + lighting |
|---|---|---|
| Plastic, anthracite or grey, splash-proof, wall-mounted | ✔ | ✔ |
| **Choice of control unit version** | | |
| Lockable with lock | Optional | Optional |
| Steel housing, splashproof | Optional | Optional |

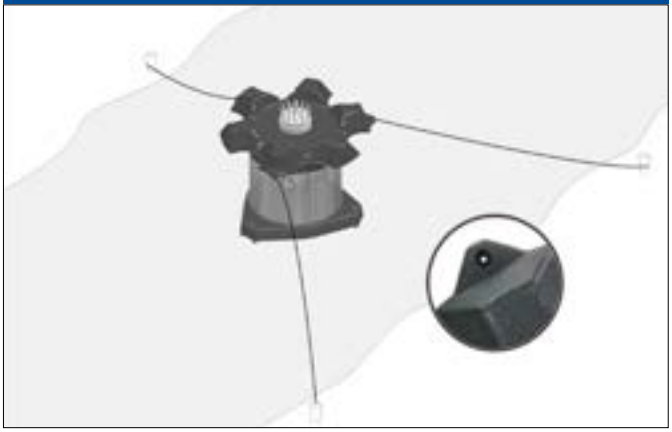
✔ = Included with delivery.
[1] = Remote control up to max 20 m without obstacles.
[2] = Extension of power cable possible.

Controls for pump and lighting are merged in one control box.

## Shore and bottom anchoring for floating pump sets

### Bank anchor kit

### Bank anchoring

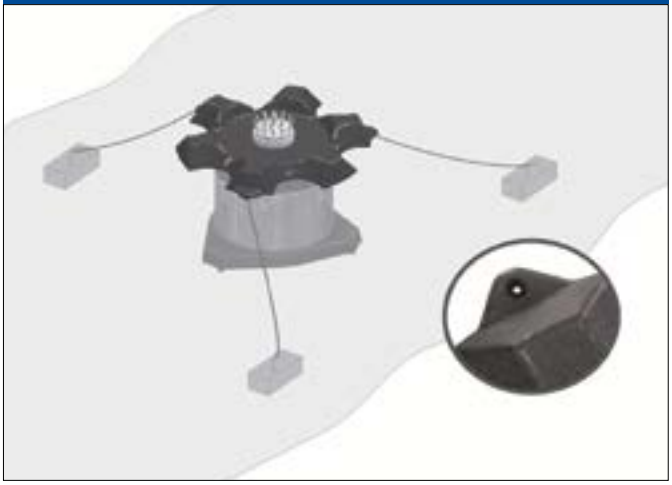


| Type | Stainless steel cable length m | Material ground pins | Length of ground pins mm | Art. no. |
|---|---|---|---|---|
| FS 304 - 30 | 30 | Stainless steel 304 | 500 | 902591 |

## Ground anchor for floating pump sets

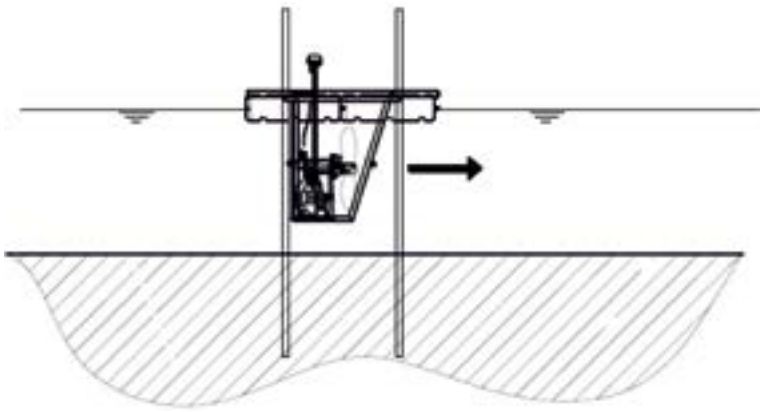
### Ground anchor set

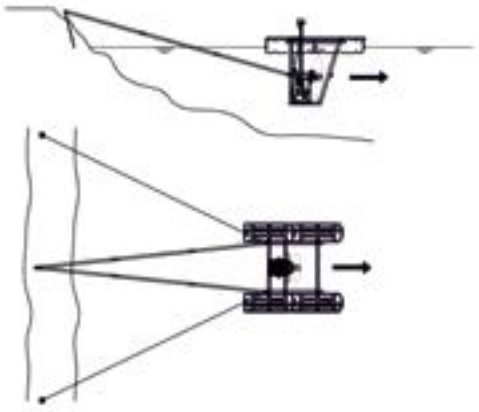
### Ground anchor



| Type | Stainless steel cable length m | Feet | Art. no. |
|---|---|---|---|
| Anchoring set FS BP-30 | 30 | Plastic/concrete | 902593 |

## Anchoring example Mega installations





## AirTec air membrane pumps

Oxygen enrichment makes a significant contribution to the well-being of fish and plants in private ponds and to the bacterial culture in filter systems that convert organic substances. Also suitable for keeping water free of ice in ponds.

| Type | Motor W | Voltage V/Hz | Motor cable m | Qmax l/h | Hmax m | Number stones | Hose m | L x W x H mm | Art. no. |
|---|---|---|---|---|---|---|---|---|---|
| AirTec Set 600 | 10 | 230/50 | 2 | 600 | 2 | 2 | 2 x 5 | 140 x 105 x 115 | 01C015 |
| AirTec Set 1200 | 15 | 230/50 | 2 | 1200 | 2 | 2 | 2 x 5 | 180 x 145 x 145 | 01C012 |
| AirTec Set 2400 | 30 | 230/50 | 2 | 2400 | 3 | 4 | 4 x 5 | 216 x 170 x 175 | 01C013 |

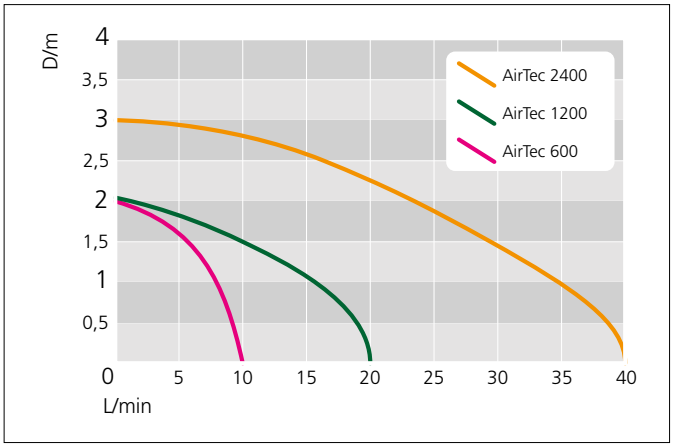
**AirTec**

### Applications

- Oxygenation.
- Aeration.
- Degassing.

### Technical information

- Suitable for outdoor configuration.
- Very low noise level when operational.
- Complete set with hose, divider and air stones.
- Plastic housing.




D/m = Immersion depth air stones in meter.

## AirTec Pro Air membrane pumps

Extremely robust air membrane pumps with aluminium housing to supply oxygen in larger ponds, fish containers and filter systems.

| Type | Motor W | Voltage V/Hz | Motor cable m | Q max. l/h | max. m | Pump connection ø mm | Divider ø 19 mm | | L x W x H mm | Art. no. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ø hose connection | Number | | |
| AirTec Pro 3600 | 40 | 230/50 | 1.5 | 3600 | 3 | 19 | 4 | 4 | 270 x 200 x 200 | 103016 |
| AirTec Pro 4800 | 50 | 230/50 | 1.5 | 4800 | 3.5 | 19 | 4 | 6 | 270 x 200 x 200 | 103018 |
| AirTec Pro 6000 | 60 | 230/50 | 1.5 | 6000 | 3.5 | 19 | 4 | 6 | 270 x 200 x 200 | 103021 |

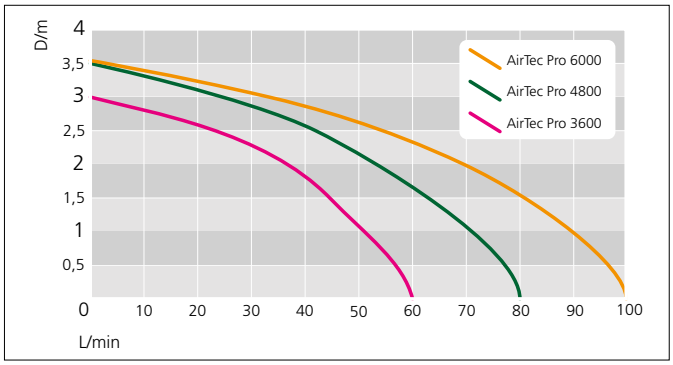
### AirTec Pro

### Applications

- Oxygenation.
- Aeration.
- Degassing.

### Technical information

- Suitable for outdoor and indoor use.
- Very low noise level when operational.
- Including divider.
- Aluminium housing.




D/m = Immersion depth air stones in meter.

## HI-OXY air stones, balls and discs

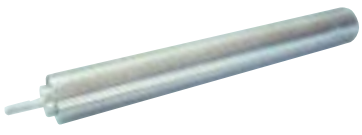
High quality grey/blue air stones, the special production process results in many extra pores that provide an airflow with fine air bubbles.

| Type | Dimensions ø cm | Capacity l/h | Connection ø mm | Art. no. |
|---|---|---|---|---|
| HI-Oxy ball | 5 | 120 | 8/4 | 903005 |

| Type | Dimensions ø x L cm | Capacity l/h | Connection ø mm | Art. no. |
|---|---|---|---|---|
| HI-Oxy cylinder | 3 x 13 | 240 | 8/4 | 903007 |
| HI-Oxy cylinder | 5 x 20 | 1000 | 8/4 | 903008 |

| Type | Dimensions ø cm | Capacity l/h | Connection ø mm | Art. no. |
|---|---|---|---|---|
| HI-Oxy disc | 10.7 | 250 | 8/4 | 903009 |
| HI-Oxy disc | 20 | 1500 | 9 | 903010 |

| Type | Dimensions l x ø cm | Capacity max. l/h | Connection ø mm | Art. no. |
|---|---|---|---|---|
| Stainless steel AirTube | 24 x 3 | 2500 | 6 | 903015 |



**AUGA July/2023**



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