





AQUA AIR 250

Oxygen plays a crucial role in breaking down nutrients in water. Many of the problems associated with an artificial lake or pond, such as algae infestation, silt or odour nuisance can be attributed to oxygen deficits. Missing oxygen can be fed into the body of water through specific water movement that introduces air. This stabilises a body of water's biological power of regeneration and results in optimal quality of the artificial lake or pond.

The Aqua Air 250 is a floating aerator that provides an adequate supply of oxygen for bodies of water up to 250,000 litres. A pump supplies the air/water mixture to the artificial pond or lake via the venturi principle. The high volume flow guarantees air supply in the entire body of water through strong flow movements. Deep zones as well as shallow water zones can be optimally supplied with oxygen through the adjustable angle of the flow injector.



Product characteristics at a glance

- Adjustable injection nozzle for specific application of oxygen
- Depth penetration to 4 metres
- High flow speeds transform any standing body of water into a flowing body of water
- Extra-long service life due to canned motor technology without seals that are subject to wear
- Low-noise underwater operation
- Stainless steel filter basket and suspension
- Fastening material is included in the scope of delivery
- Optimal oxygen supply thanks to small bubbles
- 2 year guarantee.

Tip

Ideal supplements to this product are **Bacto Plus** and **Ground Clear**.
Information on each of these products are found on **pages 44 and 45**.



Injection nozzle
Adjustable injector nozzle for specific oxygen input with supplemental bore for deep ventilation



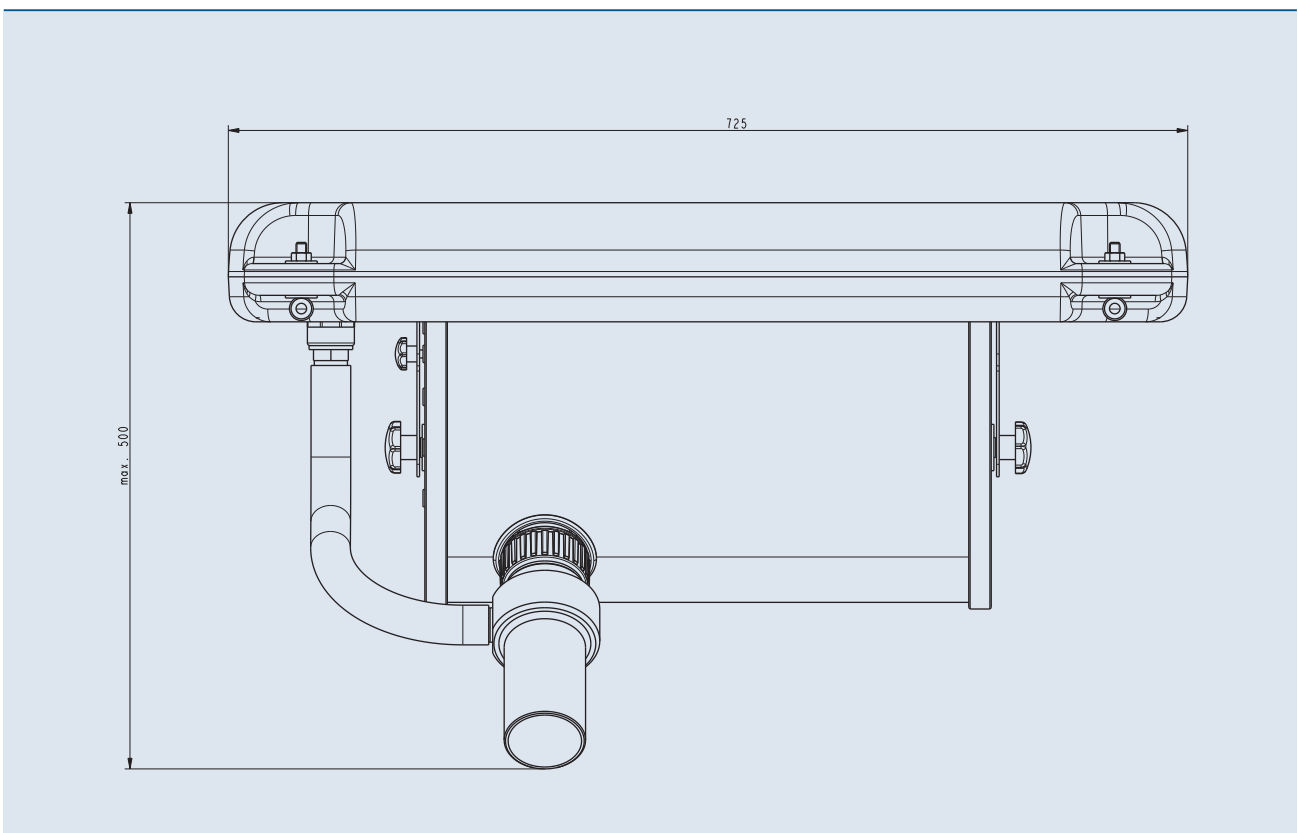
Drive
Pump drive with venturi nozzle



Stainless steel basket
High-quality design with corrosion-resistant filter basket and suspension



Fastening material
Easy, secure anchoring of the aerator thanks to the fastening material included in the scope of delivery



Before:



After:



	Aqua Air 250
Dimensions (L x W x H)	725 x 555 x 310 mm
Rated voltage	230 V / 50 Hz
Power consumption (Pump)	650 W
Litres per hour max.	30000 l/h
Air displacement quantity	ca. 8500 l/h
Radiation depth	up to 4.0 m*
Filter surface intake	ca. 3000 cm ²
For bodies of water to max.	250 m ³
Minimum water depth	0.5 m
Cable length	30.0 m
Weight	28.0 kg
Guarantee	2 years
Order no.	57479

* Depends on the jet angle set



Application example for supplied Air Flo water patterns M/L/XL

AIR FLO

Air Flo sets new standards in the areas of lake aeration and decoration: The axial propeller technology ensures impressive and unequalled water flow rates of up to 295,000 l/h – for an optimal supply of oxygen to the lake. The three decorative, voluminous water patterns can easily be changed and offer the possibility of integrating additional lighting sets with up to 9 lights. In addition two other water patterns can be retrofitted: Okanagan and Superior.

Product characteristics at a glance

- Axial propeller technology for maximum water flow rates
- 3 different, voluminous »Trumpet« type water patterns
- Easy installation and maintenance through bayonet technology
- Foamed float for extraordinary stability
- Stainless steel pump basket
- Mounting set included
- Supplemental lighting set with innovative stainless steel holder can also be ordered
- 2 year guarantee



Accessories (must be ordered separately, more accessories on page 70!)



Illumination set Air Flo LED

Lunaqua 10 LED /01	3 x
Stainless steel holder	3 x
Transformer 150 VA	1 x
Cable length	50.0 m
Order no.	50479

Tip

Ideal supplements to this product are **Bacto Plus** and **Ground Clear**.
Information on each of these products are found on **pages 44 and 45**.

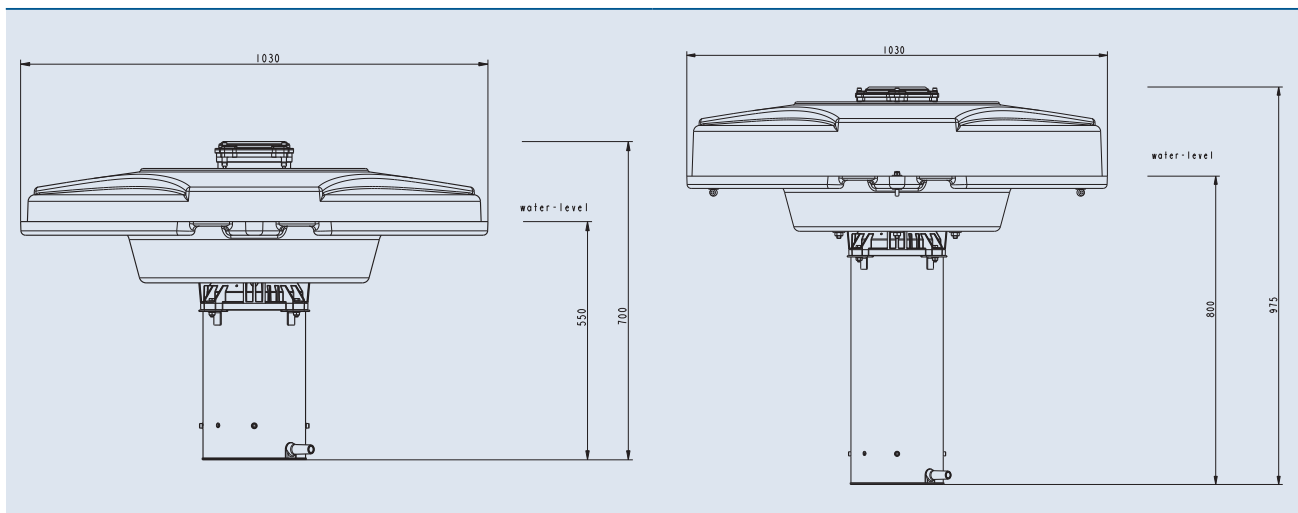
Powerdata of the different water patterns		1.5kW / 230V	1.5kW / 400V	4.0kW / 400V
Water pattern M	Fountain H x W* [m]	0.8 x 3.5	0.8 x 3.5	1.5 x 6.0
	Flow rate [l/h]	165000	175000	295000
Water pattern L	Fountain H x W* [m]	1.0 x 5.0	1.0 x 5.0	2.0 x 8.0
	Flow rate [l/h]	160000	160000	265000
Water pattern XL	Fountain H x W* [m]	2.0 x 6.0	2.0 x 6.0	3.0 x 10.0
	Flow rate [l/h]	125000	125000	225000
Lake sizes				
	Minimum lake size [m ²]	100	100	500
	Opt. effect for lakes up to [m ²]	5000	5000	15000
	Suction depth max. [m]	4.0	4.0	5.0

*Approximate

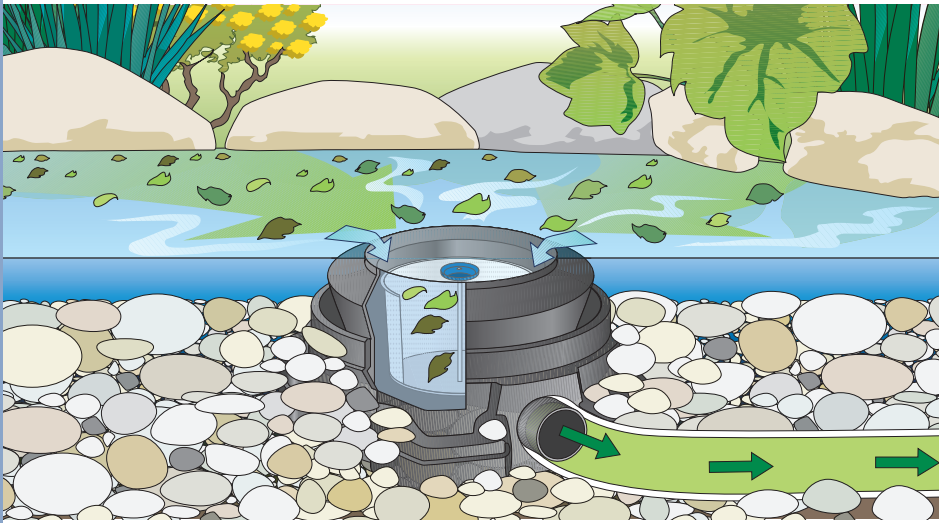


Accessories (must be ordered separately)

Additional Air Flo water patterns		1.5kW/Nozzle Superior L	4kW/Nozzle Superior XL	1.5kW/Nozzle Okanagan L	4kW/Nozzle Okanagan XL
Diameter water pattern	[m]	7	10	6	8
Height water pattern	[m]	2	3.65	2	3
Flow rate	[l/h]	120000	216000	120000	126000
Order no.		50349	50350	50333	50348



Air Flo		1.5kW / 230V	1.5kW / 400V	4.0kW / 400V
Dimensions (ø x H)	[mm]	700 x 1150	700 x 1150	950 x 1150
Nominal voltage	[V/Hz]	230/50	400/50	400/50
Pump power	[kW]	1.5	1.5	4.0
Nominal current	[A]	10.2	4.2	9.6
Litres per hour max.	[l/h]	165000	175000	295000
Minimum water depth	[m]	0.90	0.90	1.15
Cable length	[m]	50.0 + 2.0	50.0 + 2.0	50.0 + 2.0
Guarantee	[years]	2	2	2
Weight	[kg]	ca. 40.0	ca. 40.0	ca. 60.0
Order no.		50183	50184	50185



PROFISKIM 100

Leaves, pollen, and particles deposited on the water surface by wind are a risk to the biological equilibrium in a body of water. OASE skimmers powerfully and effectively pull these pollutant particles off of the surface and into the collection basket. Thus pollutants can be removed from the eco system of the body of water before they harm the eco system.

ProfiSkim 100 for water surface cleaning spares you the bothersome task of mechanically cleaning surface pollutants. This stationary skimmer is impressive with an easy-to-operate cleaning unit and generously dimensioned 12-litre collection basket. ProfiSkim 100 can even be implemented with a water depth of 35 cm.

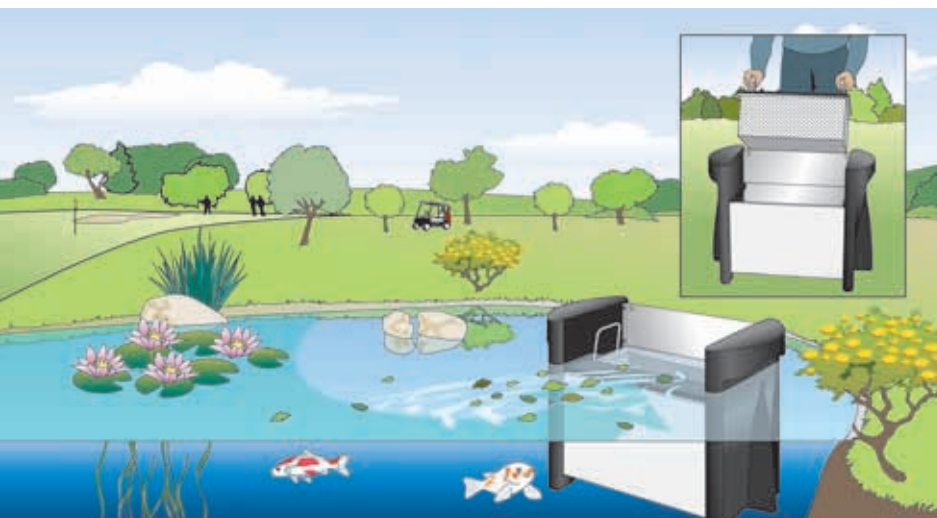
Product characteristics at a glance

- Function-optimised float ring for improved performance
- Large cross section enables 8000 to 12500* l/h water flow in gravitation systems and 8000 to 20000 l/h for pumped systems
- Ideal in conjunction with an Aquamax Eco 16000
- Stainless-steel filter basket with enlarged mesh width of 8 mm for longer service life and more convenient cleaning
- Ideal for shallow water zones

* Limited through DN100 pipe connection



ProfiSkim 100	
Pedestal footprint (L x W)	780 x 585 mm
Height min.	350 mm
Height max.	530 mm
Installation depth max.	530 mm
Connection	DN 100
Pipe reduction	2"
Recommended flow rate (Gravitation)	8000 – 12500 l/h
Recommended flow rate (pumped)	8000 – 20000 l/h
Filter basket volume	12.0 l
Max. pond surface	80 m ²
Weight	13.5 kg
Guarantee	3 + 2 = 5 years
Order no.	57134



SKIMMER 250

Skimmer 250 is a high-performance floating skimmer that keeps up to 250 m² of surface water clean. The floating skimmer is particularly well suited for bodies of water with significant water level fluctuation, and it can be flexibly implemented where pollutants accumulate. The system takes up pollutants via a skimmer flap that is 52 cm in width. Pollutants are gathered into an easy-to-remove collection basket for convenient disposal. The integrated, energy-efficient circulation pump ensures powerful skimming and generates ideal water flow thanks to focused water return.

Product characteristics at a glance

- Now even more stable thanks to foamed-out drive body
- Ideal water level adjustment through float design
- 52 cm wide skimmer flap for optimum skimmer performance
- Integrated pump
- Extremely long service life due to canned motor technology without seals that are subject to wear
- 27-litre stainless steel pollutant collection basket
- High-quality workmanship with stainless steel components
- Fastening material included in the scope of delivery
- 2 year guarantee



Skimmer 250	
Dimensions (L x W x H)	775 x 400 x 590 mm
Skimmer opening width	520 mm
Basket size (L x W x H)	510 x 310 x 190 mm
Filter basket volume	27.0 l
Rated voltage	220 - 240 V / 50 Hz
Power consumption (pump)	250 Watt
Litres per minute max.	250 l/min.
Litres per hour max.	15000 l/h
Pressure-side connection	1 1/2"
Filter surface	4500 cm ²
Suitable for ponds up to	250 m ²
Minimum water depth	650 mm
Weight	27.0 kg
Cable length	10.0 m
Order no.	57480



WATER ANALYSIS SET

The first step to a healthy, biologically balanced-pond: The **Water Analysis Set** is a professional-laboratory test especially for larger bodies of water.

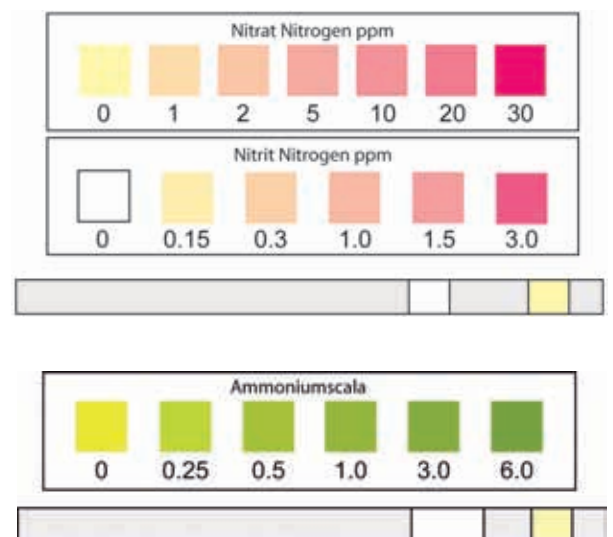
How it's done: The set contains a 0.5 l sample vessel plus shipping box to send in the water sample, a booklet with substantial informations on water quality and a Nitrite/Nitrate and Ammonium quick test with test strips. This is important because variations of these values require immediate actions.

After having taken the sample, you are asked to fill in all relevant data on your water body as well as your contact data incl. email address into the diagnosis sheet, put it into the shipping box and send it to our test laboratory in Germany (n.b. OASE does not bear any shipping costs). You will receive the test results by email within 6 working days after the sample is received.

Values tested in the laboratory

Measurement	Range	Execution
Phosphate	0.01 – 1.5 mg/l P04-P	photometric
Total hardness	1 – 20°d	photom. or titrim.
Carbonate hardness CH	1 – 15°d	photom. or titrim.
pH value	0 – 14	pH electrode
Conductivity	0 – 200.000 µS	Conductivity electrode

Quick test performed after having taken the sample Nitrite/Nitrate, Ammonium



Water Analysis Set

- Sample vessel 0.5l
- One Nitrite and one Nitrate test strip (2 small test pads)
- One ammonium test strip (1 big and 1 small test pad)
- Quick test tube
- Shipping box
- Diagnosis form
- Booklet with substantial informations on water quality

Order no.

50270



PHOSLESS

Excessive algae growth is always based on over fertilisation of the artificial lake or pond with nutrients. The most important nutrients that can limit algae growth in bodies of water are phosphorous and nitrogen. When one of these nutrients is reduced to such an extent that it is no longer available to the algae in sufficient quantity, then algae can no longer multiply. OASE Phosless was developed to remove excess phosphates from the body of water and thus effectively prevent algae growth.

Phosless is a mineral product that reduces algae growth by binding excess phosphates. In addition it binds toxic heavy metals, such as copper, lead, and sulphide which is toxic to fish. Phos-

less is shipped in a combination pack that includes one bag of Phosless CA and one bag of Phosless FS.

The use of two different materials is ideal because the binding mechanisms for phosphate are extremely complex and they can be prevented by competing reactions with other ions, low oxygen content, or low pH values. The content of the bags can be introduced wherever it can be carried away by moving water.

Product characteristics at a glance

- 30 l Phosless: 15 combination packs, each with one 1 l bag of Phosless CA and one 1 l bag of Phosless FS
- Phosless CA: white, porous calcium mineral that is used to bind phosphates and heavy metals
- Phosless FS: brown, granular iron mineral and effectively binds phosphate and sulphide
- Sufficient for 600000 litre/160000 gallons of water with an initial concentration of up to 1.25 mg phosphate per litre of water



Phosless	
30 l of Phosless are sufficient for bodies of water to a volume of 600,000 l.	
Order no.	57477

Tip

If a layer of silt has already formed on the bottom of the lake or pond, we recommend supplemental application of **Ground Clear** (see page 45) high-performance cultures that break down silt. Use the **Air Flo** (see page 38) to ensure an adequate supply of oxygen.



» BACTO PLUS « – STARTER BACTERIA

OASE Bacto Plus is a natural treatment comprised of micro organisms and valuable growth promoters. We recommend using it in combination with OASE Aqua Air aeration technology; with an oxygen supply the Bacto Plus cultures achieve a particularly good and long-lasting effect in all natural and artificial shallow bodies of water. High nutrient input is compensated and algae growth is inhibited. Use Bacto Plus to restore the natural regenerative power of the water in a short time and to prevent imbalance. The starter bacteria settle on all surfaces in the body of water, as well as on all filter material,

which guarantees a sustainable effect. Dead biomass and protein decomposition products such as ammonium, ammonia, and nitrite are sustainably and effectively broken down.

Product characteristics at a glance

- Biological self cleaner for blocking algae and treating water
- Biologically neutralises hazardous compounds that occur due to fermentation processes, through bacteria
- 500 ml measuring cup for easier dosing included in the scope of delivery



Bacto Plus

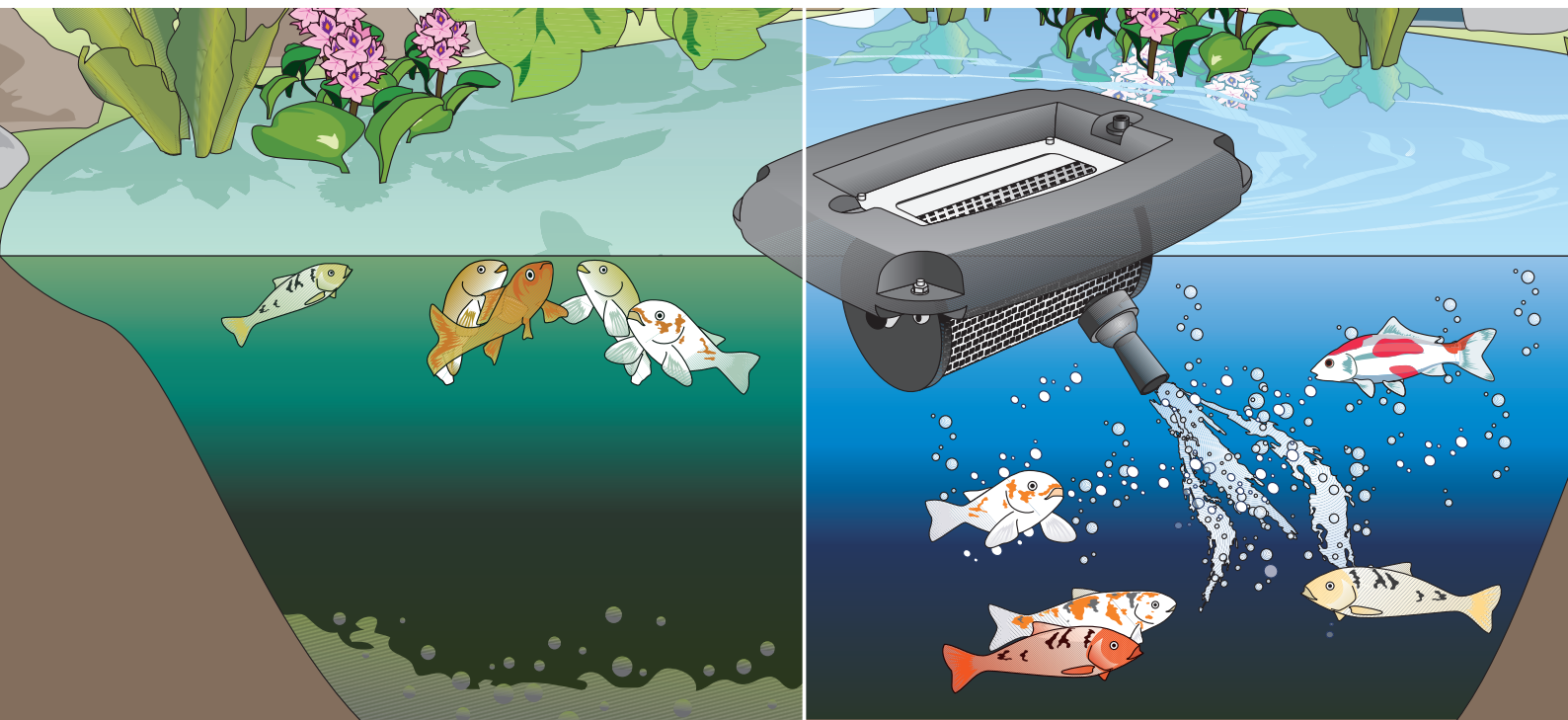
10 l bucket
for 250000 litres water volume

Order no.

57475

Tip

To eliminate nitrogen resulting from the decomposition of silt, we also recommend using **Bacto Plus** (see page 44) high-performance cultures for stabilising water quality and breaking down nitrogen. For focused aeration of silt the **Air Flo** (see page 38) surface aerator should be used.



»GROUND CLEAR« – SILT REMOVER

Sanitising silted up bodies of water is cost intensive and labour intensive. Moreover dredging destroys valuable habitat and causes field damage. Use bacteria instead of dredging, this is the solution OASE offers for artificial lakes and ponds that are silted up. Ground Clear is a solution with especially cultured high-performance bacteria that efficiently and sustainably reduce the pond floor silt. The prerequisite for high-level bacterial efficiency is an adequate oxygen supply and stirring up the silt in the water. The OASE Aqua Air 250 aerator is particularly well suited in this regard.

The natural micro organisms and growth promoters for the bacteria generate a so-called turbo effect, and thus are able to much more quickly break down large quantities of silt and dead biomass. Organic components are broken down into carbon dioxide, nitrogen and water. Bacto Plus, which decomposes nitrogen, is recommended as a support for these cultures.

Product characteristics at a glance

- Transforming organic silt via special high-performance bacteria
- Clean without replacing water/dredging
- Focused prevention of silt, long-term turbidity, and algal bloom
- 500 ml measuring cup for easier dosing included in the scope of delivery

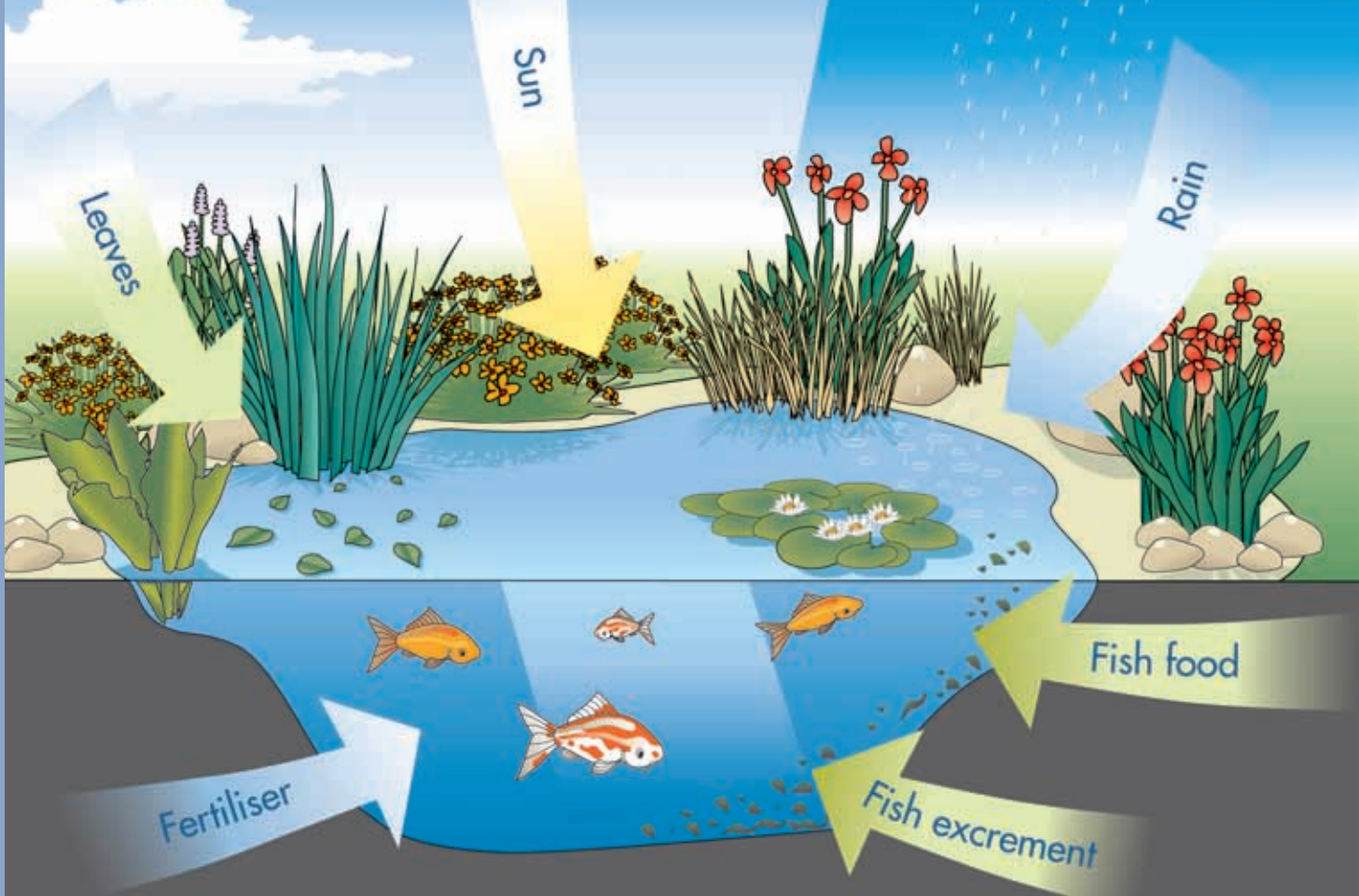


Ground Clear

10 l bucket
for 250000 litres water volume

Order no.

57476



STRING ALGAE CONTROL DIRECT

Direct treatment in watercourses or larger ponds.

The new OASE String Algae Control acts by rapidly releasing the active oxygen in the water, which destroys even the most stubborn string algae. The dead algae can be removed from the pond within a short time. Algae remains are reliably decomposed by the microorganisms contained in the product and at the same time the oxygen concentration

in the water is increased. Thus vital pond inhabitants are ensured. The scope of delivery includes a pH/GH quick test for easy and safe verification of water values before the application.

Product characteristics at a glance

- For focused elimination of string algae
- Algae die off within a short time
- Especially suited for watercourses and large ponds
- Dissolves completely in water

Use algicides safely. Always read the label and product information before using. Harmful

Not available in the UK.



String Algae Control Direct	500g	5kg
Container [kg]	0.5	5.0
Body of water volume [l]	10000	100000
Container	Bottle	Bucket
Packaging unit	6	2
Order no.	50458	50459



HARDNESS PLUS

Low-carbonate water (rain water) or exhausted water often tends to have significantly fluctuating pH values.

The problems due to strong algae growth and the associated withdrawal of carbon dioxide are greater particularly during the warmer season.

Hardness Plus stabilises the calcium/carbonic balance in low-carbonate bodies of water and thus prevents greater pH value fluctuations.

Product characteristics at a glance

- Increases the carbonate hardness in exhausted water
- Treats soft well water or rain water for filling
- Stabilises the calcium/carbonic acid balance and buffers the pH value



Hardness Plus

5 l bucket
for 50000 litres water volume

Order no.

36656

Tip

The Bitron 110 C is the ideal clarifier for the Biotec Screenmatic 36 filter.



BITRON 110C

The Bitron 110 C effectively reduces algae and the number of pathogens and bacteria in the body of water and thus consistently ensures clear and healthy water.


Product characteristics at a glance

- Well thought-out bypass technology for custom water flow adjustment on the UVC device enables optimum adaptation to the connected filtration pump
- Automatic and permanent bulb cleaning function sustainably ensures full efficiency of the UVC light source
- Integrated magnets protect the pond technology that is implemented (including pump and filter) from aggressive calcium deposits.
- Indicator light for visual monitoring of device function

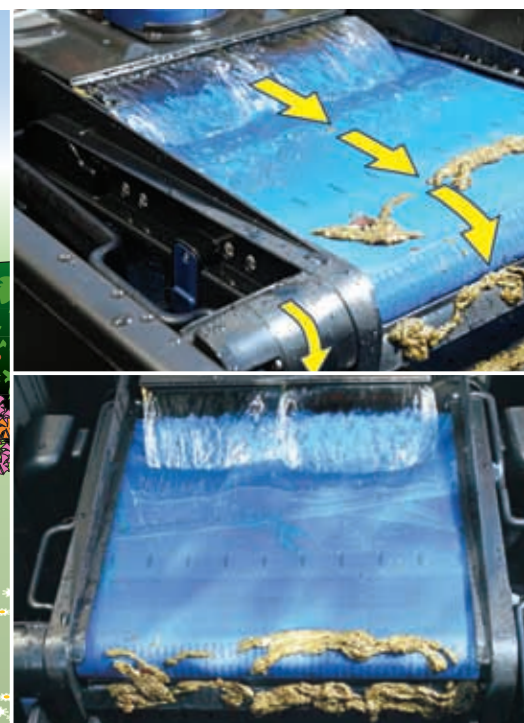
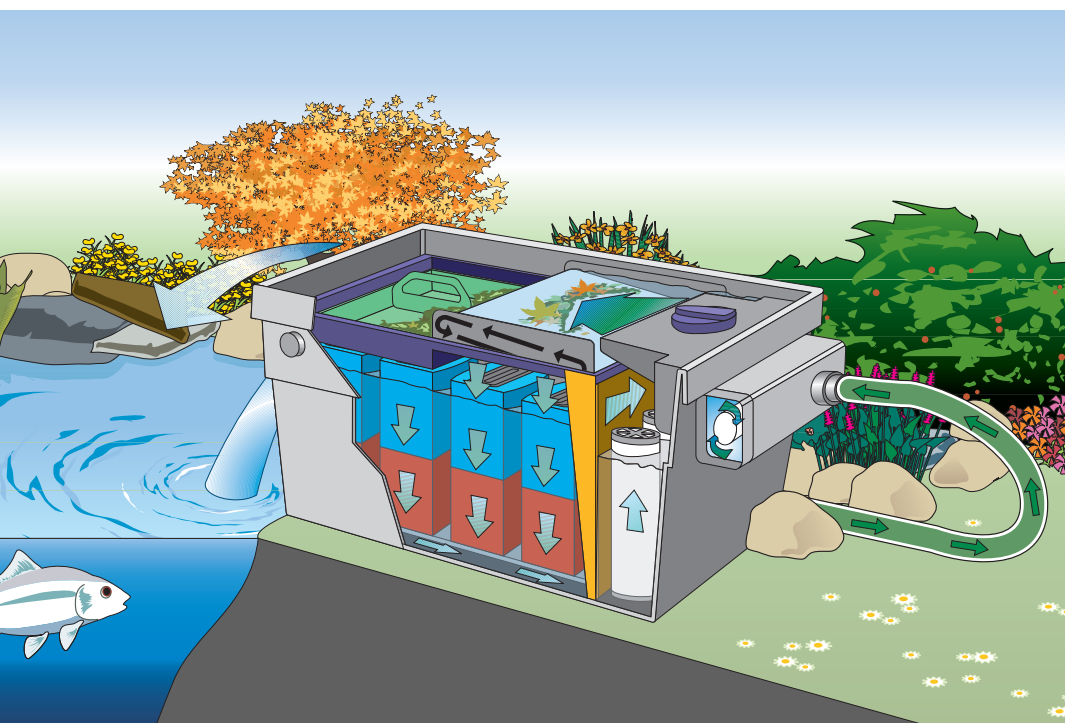


- High-quality workmanship in impact resistant plastic
- Quick-lock technology for easy bulb replacement, no tools required

Accessories (must be ordered separately)

	
Replacement bulb for Bitron 110 C	
Bitron 55 W	
2 bulbs are required for complete configuration.	
Order no.	56636

Bitron 110C	
Dimensions (L x W x H)	731 x 216 x 201 mm
Rated voltage	220-240 V/50-60 Hz
Inlet stepped hose adapter	3/4" to 2"
Outlet (2x)	1" to 1 1/2"
Visual function check	Indicator light
Connection to	Proficlear module filter/Biotec Screenmatic 36
Operating pressure max.	1.0 bar
Suitable pump capacity max.	40000 l/h
Power consumption	110 W
Flow-through UVC, without bypass	12000 l/h
Cable length	5.0 m
Order no.	56902



BIOTEC SCREENMATIC 36

The biological-mechanical filtration function in tandem with outstanding technology for extracting coarse pollutants guarantee clear and healthy water with low maintenance.

Product characteristics at a glance

- Effective, mechanical and safe extraction of coarse pollutants, and thus significantly longer service life
- Collection tanks for simple removal of extracted coarse pollutants
- Extractor sieve is cleaned automatically

- Optimum growth of filter biology thanks to different filter media with extensive settlement surfaces

Accessories (must be ordered separately)



Spiral hoses, green with black -spirals (pressure: 6 bar)

- Frost-resistant and UV-resistant
- Good sinking characteristics
- Temperature-resistant to + 60 °C
- Heavy-metal free – guaranteed

Spiral hoses

1 1/2"	25 m length	Order no. 52981
2"	20 m length	Order no. 36500

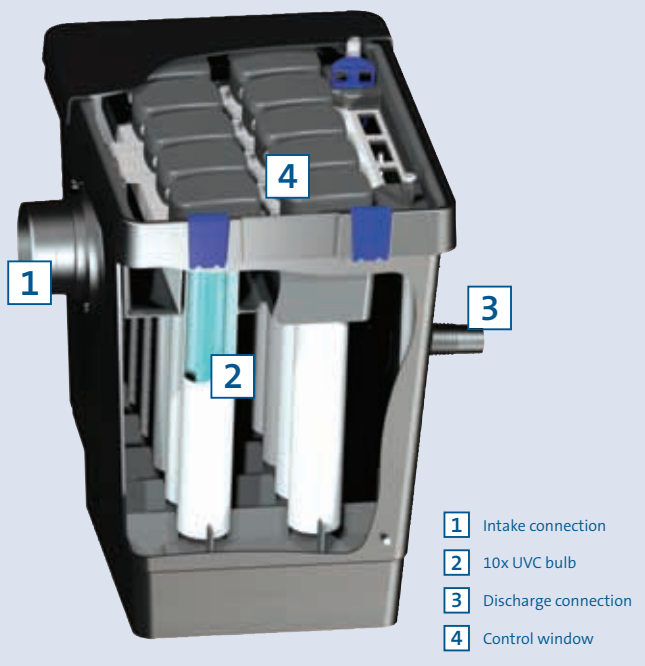
Replacement filter sponges

for Biotec 36 Screenmatic	red	Order no. 56736
for Biotec 36 Screenmatic	blue	Order no. 56737

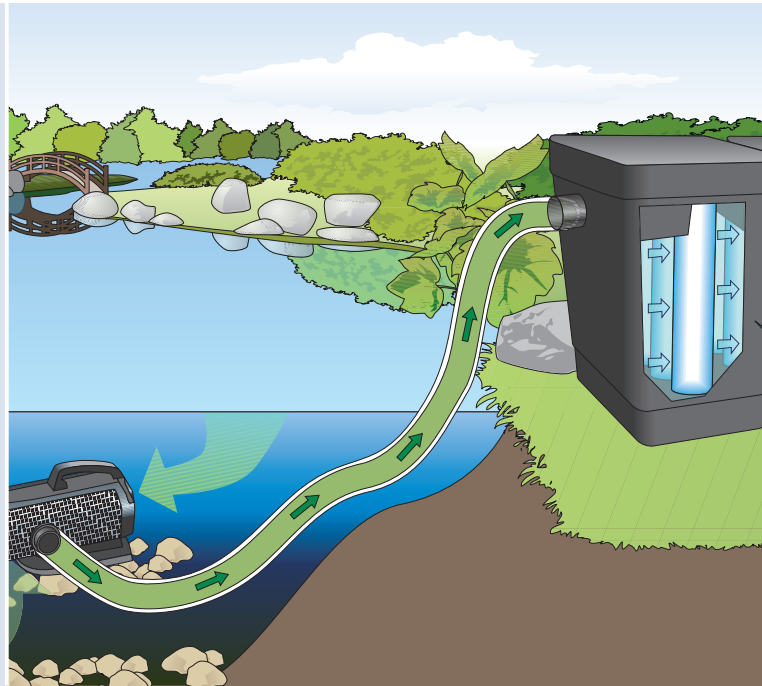


Biotec Screenmatic 36

Dimensions (L x W x H)	1200 x 800 x 760 mm
Flow rate max.	23000 l/h
Inlet stepped hose adapter	2 x 1" to 1 1/2"
Outlet	100 mm
Number of blue filter sponges	18
Number of red filter sponges	18
Special granulate	18.0 kg
Coarse pollutant extraction	300 µm
Suitable for ponds with fish stock	70 m ³
Suitable for ponds to max.	140 m ³
Weight	90 kg
Order no.	57129



- 1 Intake connection
- 2 10x UVC bulb
- 3 Discharge connection
- 4 Control window



BITRON 550

The innovative UVC technology consistently ensures clear and healthy water. The clarifiers effectively reduce algae and the number of pathogens and bacteria in the artificial pond or lake.

The Bitron 550 is a powerful 550 watt UVC clarifier that is used to reduce suspended algae and pathogens in bodies of water to 250 m³ in volume. Due to the low flow speed relative to UVC performance the displaced water is freed from suspended algae and germs in a particularly effective manner.



Product characteristics at a glance

- 10 x 55 watt UVC power output
- Premium GFK housing
- Control window for each UVC bulb
- Stainless steel reflectors increase UVC efficiency
- Up to 20,000 litres flow-through volume
- Versatile connection possibilities

Accessories (must be ordered separately)

	
Replacement bulb for Bitron 550	
Bitron 55 W	
10 bulbs are required for complete configuration.	
Order no.	56636

Bitron 550	
Dimensions (L x W x H)	790 x 675 x 815 mm
Rated voltage	220 - 240 V/50 - 60 Hz
Power consumption	550 W
Recommended flow rate	15000 l/h
Flow rate min.	5000 l/h
Flow rate max.	20000 l/h
Bulbs	10 x 55 W
Pressure side connection	2" / DA 63 / DN 100
Discharge	DN 100 / DN 150
For bodies of water to max.	250 m ³
Weight	87.5 kg
Cable length	10.0 m
Order no.	57478

PROFICLEAR MODULE FILTERS M1 – M5

Whether large volume swim pond or koi pond – the OASE Proficlear module filter satisfies the requirements for outstanding water quality at all times. Individually extensible and fitted with a wide variety of filter media, the system guarantees clean and healthy water, with maximum operating convenience and minimum maintenance.

Product characteristics at a glance

- Modularly extensible filter system that satisfies the most rigorous water quality requirements
- Custom combination of different components
- Can be implemented in different pond sizes
- Can be implemented as a pump-fed version as well as a gravitation filter.
- Coarse pollutant extraction with automatic cleaning
- Easy system maintenance thanks to cleaning handles and sludge drains in each filter chamber
- Made of high-quality, impact-resistant GFK

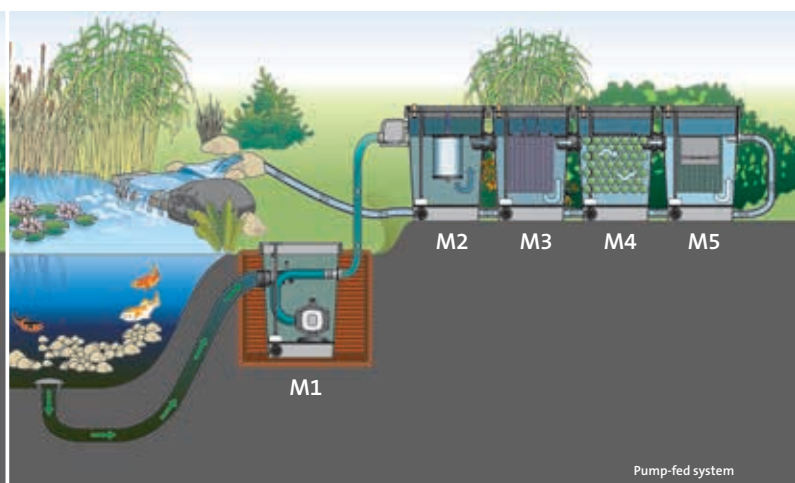
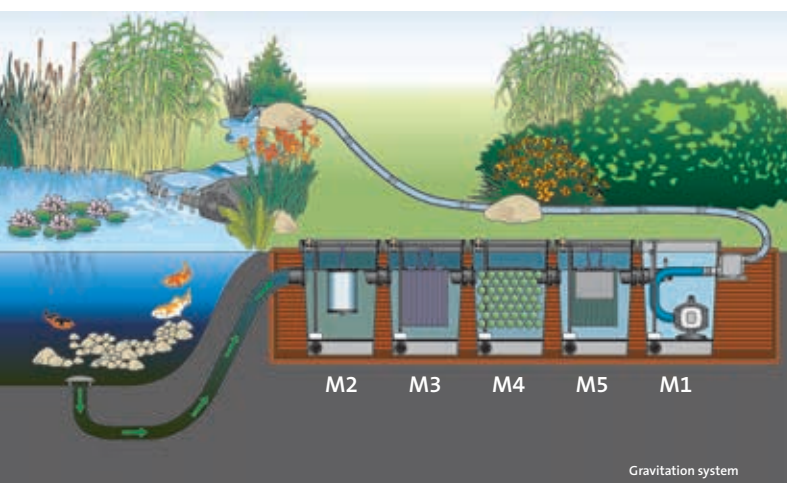
Without fish stock					
Single-row configuration					
Module	+ Bitron 110 C		+ Bitron 550 *		
	Pond volume		Pond volume	Pond volume	Pond volume
M1+M2+M3	= 40 m ³	+M5	= 55 m ³	= 50 m ³	+M5 = 70 m ³
M1+M2+M3+M3	= 60 m ³	+M5	= 75 m ³	= 75 m ³	+M5 = 95 m ³
M1+M2+M3+M3+M4	= 80 m ³	+M5	= 95 m ³	= 100 m ³	+M5 = 120 m ³
M1+M2+M3+M3+M4+M4	= 100 m ³	+M5	= 115 m ³	= 130 m ³	+M5 = 150 m ³
Double-row configuration					
Module	+ Bitron 110 C		+ Bitron 550 *		
	Pond volume		Pond volume	Pond volume	Pond volume
M1+ M2+M3 M2+M3	= 80 m ³	+M5 +M5	= 110 m ³	=100 m ³	+M5 +M5 = 140 m ³
M1+ M2+M3+M3 M2+M3+M3	= 120 m ³	+M5 +M5	= 150 m ³	=150 m ³	+M5 +M5 = 190 m ³
M1+ M2+M3+M3+M4 M2+M3+M3+M4	= 160 m ³	+M5 +M5	= 190 m ³	=205 m ³	+M5 +M5 = 245 m ³
M1+ M2+M3+M3+M4+M4 M2+M3+M3+M4+M4	= 200 m ³	+M5 +M5	= 230 m ³	=260 m ³	+M5 +M5 = 295 m ³

With fish stock (For heavily stocked fish or koi ponds, the values given below should be halved)					
Single-row configuration					
Module	+ Bitron 110 C		+ Bitron 550 *		
	Pond volume		Pond volume	Pond volume	Pond volume
M1+M2+M3	= 20 m ³	+M5	= 30 m ³	= 25 m ³	+M5 = 35 m ³
M1+M2+M3+M3	= 30 m ³	+M5	= 40 m ³	= 35 m ³	+M5 = 50 m ³
M1+M2+M3+M3+M4	= 40 m ³	+M5	= 50 m ³	= 50 m ³	+M5 = 65 m ³
M1+M2+M3+M3+M4+M4	= 50 m ³	+M5	= 60 m ³	= 65 m ³	+M5 = 75 m ³
Double-row configuration					
Module	+ Bitron 110 C		+ Bitron 550 *		
	Pond volume		Pond volume	Pond volume	Pond volume
M1+ M2+M3 M2+M3	= 40 m ³	+M5 +M5	= 60 m ³	= 50 m ³	+M5 +M5 = 75 m ³
M1+ M2+M3+M3 M2+M3+M3	= 60 m ³	+M5 +M5	= 80 m ³	= 75 m ³	+M5 +M5 = 100 m ³
M1+ M2+M3+M3+M4 M2+M3+M3+M4	= 80 m ³	+M5 +M5	= 100 m ³	=100 m ³	+M5 +M5 = 125 m ³
M1+ M2+M3+M3+M4+M4 M2+M3+M3+M4+M4	= 100 m ³	+M5 +M5	= 120 m ³	=125 m ³	+M5 +M5 = 150 m ³

* can only be used as pump-fed system

Rule of thumb!
 Ponds without fish:
 Ponds with fish (no koi):
 Ponds with large fish stock or koi:

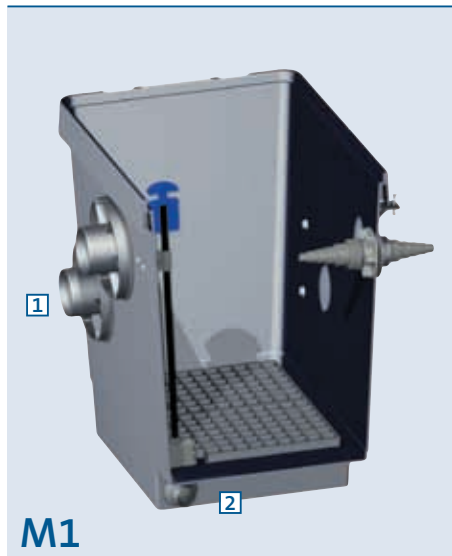
1 W UVC power per 1000 l pond volume
 2 W UVC power per 1000 l pond volume
 4 W UVC power per 1000 l pond volume



PROFICLEAR M1 TO M5. THE MODULES IN DETAIL.

The Proficlear modular filter system is impressive through innovative technology, high-quality workmanship, and simple operation.

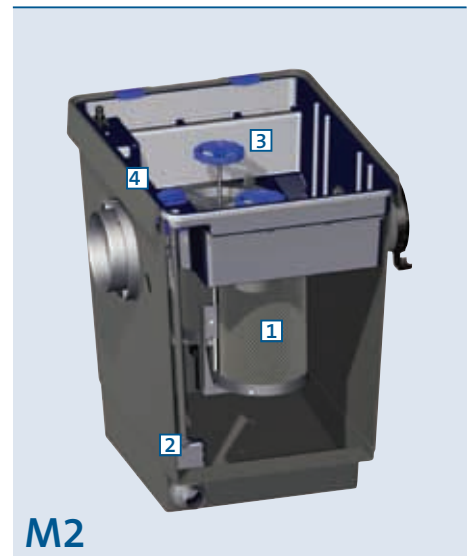
The modular system enables individual configuration of any filtering system oriented to the needs of your customers. Whether koi pond, or large swim pond – we offer the custom-tailored solution for clear and healthy water.



PROFICLEAR M1 – PUMP CHAMBER

Whether gravitation principle or pumped system – the Proficlear M1 pump chamber ensures optimal pump position.

- Reduction of pressure losses.
- Safe and standard-conformant setup for swim ponds.
- Simple maintenance and winter care.
- Protection against excessive silt.
- Two inlets **1** including regulator for custom adjustment of the intakes
- In the sediment tank accumulated pollutants are flushed out via the sludge drain **2**.



PROFICLEAR M2 – COARSE DEBRIS EXTRACTOR

Enables easy mechanical extraction of solids up to 300 µm in size.

- Incoming water is fed via two large-surface extraction sieve **1** into the next filter chamber.
- Pull the slide valve **2** to flush out pollutants via a DN 50 discharge, optionally supported by rinsing via cleaning nozzles.
- The extraction sieves can be quickly cleaned with interior and exterior brushes by operating the cleaning handles **3**.
- A pollutant indicator **4** signals when maintenance is required.
- Automatic and regular cleaning is possible via the Proficlear Screendrive (see accessories)!

Accessories (must be ordered separately)



Proficlear Screendrive

NEW: With enhanced stainless steel engine.
Takes over regular and automatic cleaning of the coarse debris extractor in the Proficlear M2.

Dimensions (L x W x H)	700 x 230 x 120 mm
Rated voltage	230V/50 Hz, 12 V/DC
Cable length primary/secondary	2 m/5 m
Power consumption	4.5 Watt
Guarantee	2 years
Order no.	57094



Proficlear bottom drain BD 100

Dimensions Ø	380 x 290 mm
Connection	DN 100
Order no.	37143

Replacement filter sponges

Proficlear M3, blue/10 ppi wide	26983
Proficlear M3, blue/10 ppi narrow	26984
Proficlear M3, red/30 ppi	27295
Proficlear M5, black/45 ppi narrow	27296
Proficlear M5, black/45 ppi wide	27297

Replacement Phosless filter media tubes

For Proficlear M5	36981
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The housings of all five modules are made of high-quality Duroplast
Guarantee + Request Guarantee 2 + 1 = 3 years

Proficlear M 1 – pump chamber

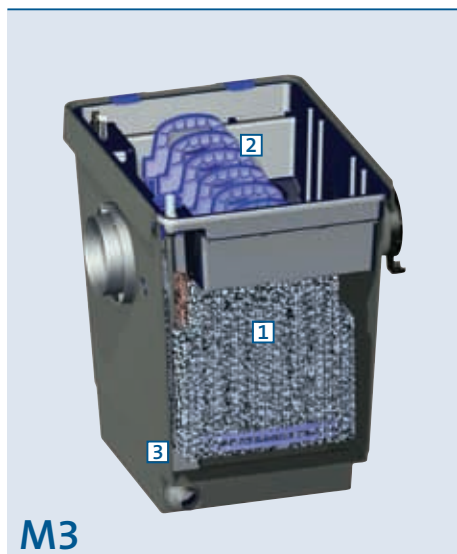
Dimensions (L x W x H)	800 x 600 x 800 mm
Inlet Ø	2 x DN 100
Outlet Ø	2 x 50 mm
Hose connection for the outlets	1" to 2"
Pollutant discharge Ø	DN 50

Order no.	56897
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Proficlear M 2 – coarse debris extractor

Dimensions (L x W x H)	800 x 600 x 800 mm
Number of sieves	2
Inlet Ø	1 x DN 100/DN 150 + 2x 50 mm
Outlet Ø	1 x DN 100/DN 150
Pollutant discharge Ø	DN 50
Max. flow rate	12,500 l/h

Order no.	37108
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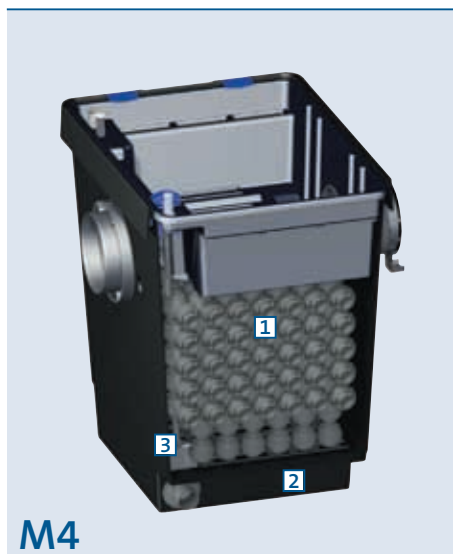


M3

**PROFICLEAR M3 –
FILTER FOAM MODULE**

Reliably removes toxins such as ammonium/ ammonia or nitrite.

- Water is channelled through the coarse and fine foams **1** that contain the important filter biology.
- The oxygen necessary for the nitrification processes is supplied via connections on the housing.
- To clean, use the cleaning levers **2** to compress the foams against the intermediate floor .
- Pull the slide valve **3** to flush out contaminants via a DN 50 discharge, optionally supported by rinsing via cleaning nozzles.

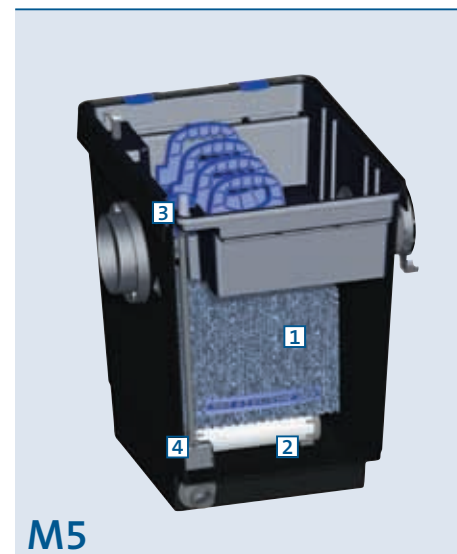


M4

**PROFICLEAR M4 –
BIOBALLS FILTER MODULE**

The design of the Bioballs M4 filter module is based on the latest scientific findings.

- The Bioballs **1** with especially designed flow control offer an over-proportional filter surface and are forced directly against the intermediate floor by the water current.
- Necessary oxygen supply is ensured through an external connection .
- The pollutants on the floor of the sediment tank **2** are flushed out when the slide valve is pulled **3** supported by the cleaning nozzles.
- The highly developed Bioballs are maintenance-free due to permanent rotation inside the system.



M5

**PROFICLEAR M5 –
PHOSPHATE BINDER MODULE**

Converts nitrate into gaseous nitrogen (denitrification) and eliminates phosphates.

- A majority of the water volume is channelled past the filter foam **1**. This establishes the low oxygen milieu that is so important for the denitrifying bacteria.
- The lesser portion of the water flow volume is channelled through the Phosless inserts **2**.
- Binders ensure quick and safe phosphate deposition.
- Elimination of these nutrients significantly restricts string algae growth.
- Maintenance-free because bypass regulation in the foam prevents clogging.
- A pollutant level indicator **3** signals when maintenance is required.
- Pollutant discharge **4** incl. slide valve.

Proficlear M3 – filter foam module	
Dimensions (L x W x H)	800 x 600 x 800 mm
Filter foam volume	70 l
Number of filter foams	6
Inlet Ø	1 x DN 100/DN 150 + 2 x 50 mm
Outlet Ø	1 x DN 100/DN 150
Pollutant discharge Ø	DN 50
Max. flow rate	12,500 l/h
Order no.	37107

Proficlear M4 – Bioballs filter module	
Dimensions (L x W x H)	800 x 600 x 800 mm
Filter surface	30 m ²
Inlet Ø	1 x DN 100/DN 150 + 2 x 50 mm
Outlet Ø	1 x DN 100/DN 150
Pollutant discharge Ø	DN 50
Max. flow rate	12,500 l/h
Order no.	37144

Proficlear M5 – phosphate binder module	
Dimensions (L x W x H)	800 x 600 x 800 mm
Number of filter media tubes/sponges	4/6
Inlet Ø	1 x DN 100/DN 150 + 2 x 50 mm
Outlet Ø	1 x DN 100/DN 150
Pollutant discharge Ø	DN 50
Max. flow rate	12,500 l/h
Order no.	37109