



The solution for large koi ponds. Koi pond owners know that what starts as a small pond with a few koi quickly, with increasing passion becomes a larger koi pond installation. With the number of fish and use of the pond, the demands imposed on performance and convenience of the a filter system, naturally increase as well, today no one wants to make any compromises.

The new generation ProfiClear Premium module filter system has been developed jointly in intensive cooperation with leading european koi experts, and with its extremely reliable filter performance, its well thought-out functions, and its unusual price / performance ratio, it sets totally new standards.

It consists of three modules, drum filter module, moving bed module and individual module, the entire system even ensures clear water if the pond is extended by an additional 50m³ or if their is a desire for swimming. The secret is its flexibility; depending on the use of the pond a second Moving Bed module can be connected, and the Individual module can be equipped with additional filter media. In the most uncomplicated way, this increases the overall filter capacity and large bodies of water, such as natural ponds and swim ponds up to 200m³ remain clear.

Discover the versatile functions and convincing advantages of this system; it remains unique in its class!

	Fresh Water	Pool Water	Sea Water	220-240 V	400 V	110-120 V	50 Hz	60 Hz	12 V AC	24 V DC	DMX	DMX/RDM	Plug and Spray
Individual Module	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Moving Bed Module	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Drum filter pump-fed	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Drum filter gravity-fed system	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

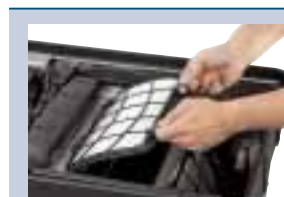
PROFICLEAR PREMIUM – SOPHISTICATED FILTER SYSTEM FOR KOI PONDS

System advantages at a glance

- Intelligent high end module filter system for Koi ponds and other large bodies of water to 260 m³
- Outstanding filter capacity with intelligent control functions
- Intelligent self cleaning function for unique maintenance free operation (drum filter module)
- Highly effective decomposition of pollutants and nutrients, thanks to professional filter media and moving bed process (MovingBed module)
- Flexible adaptation of the filter system to individual requirements (individual module)
- Mature, professional technology with more than 3 years of development time
- Innovative and reliable product
»made in Germany*« *Except pressure pump



www.oase-livingwater.com/proficlearfilm



ProfiClear Premium sieve

- Accessories for the Drum Filter Module
- At 150 µm, ensures removal of coarser debris and thus reduces water consumption
- Ideal for use on natural ponds or swim ponds

ProfiClear Premium sieve

Order no.

50947

DRUM FILTER MODULE



Intelligence sets the pace. The intelligent switch centre removes coarse debris to 60 µm – i.e. finer than a strand of hair.

- Maximum particle removal to 60 µm and flow-through rates to 33 m³/h for a crystal clear view
- Flexible implementation possibilities; can be used in the gravity-fed system, as well as in the pump-fed system
- Automatic self-cleaning offers maximum convenience
- Rinsing is executed with cleaned pond water, a water connection is not required
- A watertight microcontroller system monitors and controls the main functions, operation is as easy as child's play (plug & play)
- Control system with retrospective display of errors in running operation as well as adjustment possibilities for forced cleaning, duration of cleaning and supplemental cleaning
- Pollutant rakes on the sieves reliably



- remove string algae and other larger particles from the drum
- Pollutant trough made of ductile EPDM material prevents jamming of larger particles
- VDE testing certifies reliable and safe functions
- Safety level switch in the pump-fed system prevents jamming due to debris particles
- Stable housing thanks to solid stainless steel elements and dimensionally stable Duroplast
- Individually removable sieve elements (no tools required) and free-wheeling functions for easy access to the drum interior
- Incomparably quiet through extensive noise damping
- Powerful, high-quality pressure pump is integrated for flushing the drum
- Full flexibility for the connection with up to 4x DN 110 inlets
- Screen elements in 150 µm mesh width optionally available as accessories

MOVING BED MODULE



Hel-X ensures optimum media circulation Original Hel-X biomedica are highly effective at degrading pollutants in the moving bed process.

- Extremely large, protected settlement surface for microorganisms (806 m²/m³)
- Innovative bypass technology for optimal movement of the Hel-X bioelements even with high flow rates
- Removal of toxins, such as ammonium / ammonia, nitrite and nitrate
- Hel-X Biomedium 50 l decompose approx 340 g of fish food per day. Its performance depends on temperature, feed quality and the degree of settlement of microorganisms
- Aerator bar for oxygen enrichment and turbulence already installed
- Advantages of the moving bed process: Permanent, optimal oxygen supply; self-cleaning effect from dead biomass, know-how from industrial water treatment
- Integrated bottom drain with high quality, finely engineered slide valve



POWERED BY
Hel-X 13



Integrated aerator can be connected to AquaOxy aerator pumps.



It was possible to significantly extend the surface that can be settled (surface protected: + 14.5 % relative to the predecessor product).

INDIVIDUAL MODULE



Flexible with maximum effectiveness. The filter system is flexibly aligned to the individual conditions of the body of water.

- Space-saving pump and UVC chamber for easy integration of: AquaMax Eco gravity filter pumps and Bitron Gravity UVC clarifiers
- Maximum flexibility in the connection through DN 110 and 2" ducts
- To increase the filter capacity, it's possible to fill the 2 individual baskets in the flow area with additional filter medium up to 8 litres fill volume
- Integrated bottom drain with high quality, finely engineered slide valve



Convenient filling of the 2 individual baskets with up to 8 litres fill volume.



ProfiClear Premium

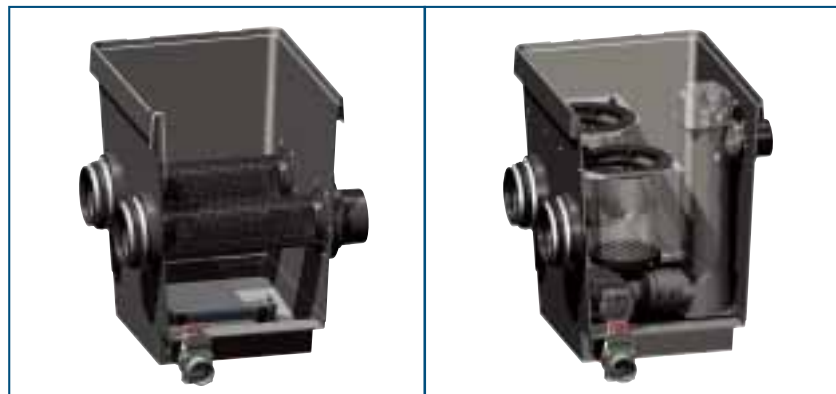
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ProfiClear Premium
Drum filter pump fed

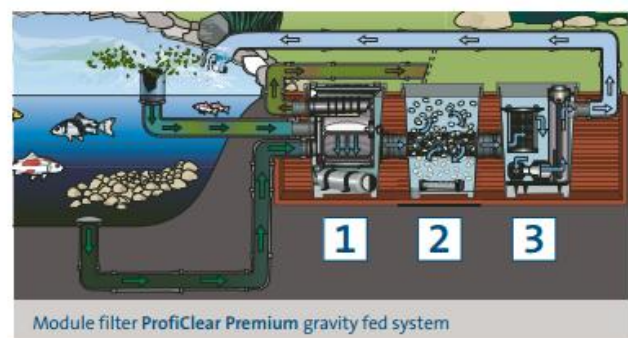
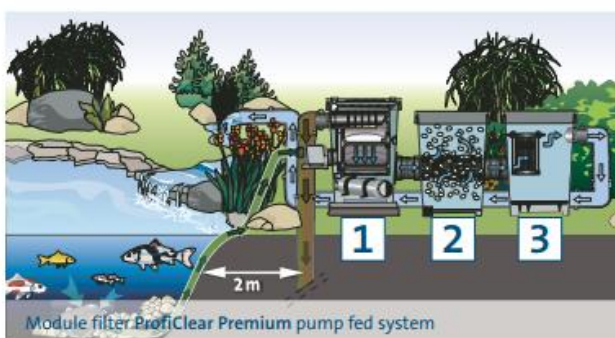
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ProfiClear Premium
Drum filter gravity fed system


Description		<ul style="list-style-type: none"> • Filter capacity to 60 µm and 33 m³/h flow-through rate • Automatic self-cleaning • A watertight microcontroller system monitors and controls the main function • VDE testing certifies reliable and safe functions • Only gravity-fed: full flexibility for the connection with up to 4x DN 110 inlets • Safety level switch in the pump-fed system prevents jamming due to debris particles • Massive stainless steel elements • Individually removable sieve elements (no tools required) and freewheeling function • Particularly quiet in operation • High quality pressure pump is integrated for flushing the drum 	
Dimensions (L x W x H)	[mm]	830 x 600 x 820	
Rated voltage		230 V / 50 Hz	
Power consumption	[W]	5	
Power consumption cleaning	[W]	1050	
Cable length	[m]	2.00 + 1.00	2.00 + 5.00
Net weight	[kg]	70.00	
Control unit		Microcontroller	
Temperature display		Digital	
Coarse debris extraction	[µm]	60.00	
Number of nozzles / flush quantity		4 x 2.5 l / min	
Flush pump		6 bar	
Flush automation		Sensor, time interval, manual	
Number of sieve elements	[EA]	8	
Filter intake surface	[cm²]	3454	
Material		GRP Duroplast / stainless steel	
Number of inlets	[EA]	2	4
Connections, inlet	[mm]	50	–
Connections, inlet		2 x 2" + Bitron	DN 110
Number of outlets	[EA]	2	
Connections, outlet		DN 150	
Connections, sludge discharge		DN 75, DN 110	
Connection, flush trough		DN 110	
Connection to		Bitron Eco 120 – 240 W, Bitron C 72 – 110 W	Bitron Gravity
Min. flow rate	[l / h]	10000	
Max. flow rate	[l / h]	25000	33000
Install height above the water level	[cm]	40	13
Type of use		Pump fed system	Gravity fed system
Other		Pollutant discharge incl. slide valve	
Order no.		50773	56774




ProfiClear Premium		2	3
		ProfiClear Premium Moving bed module	ProfiClear Premium Individual module
Description		<ul style="list-style-type: none"> Extremely large, protected settlement surface for microorganisms (806 m²/m³) Innovative bypass technology for optimal movement of the Hel-X bio-elements Removal of toxins, such as ammonium / ammonia, nitrite and nitrate Hel-X Biomedium: 50 l decompose approx. 340 g of fish food per day (can be extended to 100 l / module). Aerator bar for oxygen enrichment and turbulence already installed Permanent, optimal oxygen supply; self-cleaning effect from dead biomass Integrated bottom drain with high quality, finely engineered slide valve 	<ul style="list-style-type: none"> Space saving pump and UVC chamber Maximum flexibility in the connection through DN 110 and 2" ducts To increase the filter capacity, it is possible to fill the individual baskets in the flow area with additional filter media up to 8 litres fill volume Integrated bottom drain with high quality, finely engineered slide valve
Dimensions (L x W x H)	[mm]	830 x 600 x 820	
Net weight	[kg]	44.00	37.00
Biological filter surface	[m ²]	47.8	–
Biolog. filter surface protected	[m ²]	40.3	–
Individual granulate filter		–	2 x 8 litres
Number of sieve elements	[EA]	–	2
Material		GFK Duroplast	GRP / stainless steel
Number of inlets	[EA]	2	
Connections, inlet	[mm]	180	
Number of outlets	[EA]	2	
Connections, outlet		–	50
Connections, outlet		DN 150	2 x 2" / 2 x DN 110
Connections, sludge discharge		DN 75	
Min. flow rate	[l / h]	10000	
Max. flow rate	[l / h]	33000	
Connection to		AquaOxy 2000–4800	AquaMax Eco Gravity, Bitron Gravity
Install height above the water level	[cm]	13	
Type of use		Pump fed system, gravity fed system	
Other		Aeration pre-installed, pollutant discharge incl. slide valve	Pollutant discharge incl. slide valve
Order no.		50772	50771



SELECTION TABLE – PROFICLEAR CLASSIC

Natural ponds & swim ponds (without fish stock)		40 m ³	60 m ³	80 m ³	100 m ³	120 m ³	160 m ³	200 m ³
		Coarse debris extractor	EA	1	1	1	1	2*
Filter foam module	EA	1	1	2	3	3	4	6
Phosphate binder module	EA	–	1	1	1	1	2	2
Pump chamber	EA	1	1	1	1	1	1	1
Bitron 72 W	EA	1	1	–	–	2	–	–
Bitron 110 W	EA	–	–	1	–	–	2	–
Bitron Eco 120 W	EA	–	–	–	1	–	–	2
Optional: Bitron Gravity	EA	1	1	2	2	2	2	2
Pump capacity / h = pond size / 8								
* Double-row configuration (the filter system must be operated in two filter rows that are separate from each other) see illustration below. This table considers the usual flow losses within the filter system. All references regarding our Filter / UVC combinations for special pond sizes are based on Mid-European climatic conditions. For other regions they could differ due to the water temperature and sun intensity.								

With fish stock (up to 1 kg/1000 l)		20 m ³	30 m ³	40 m ³	50 m ³	60 m ³	80 m ³	100 m ³
		Coarse debris extractor	EA	1	1	1	1	2*
Filter foam module	EA	1	1	2	3	3	4	6
Phosphate binder module	EA	–	1	1	1	1	2	2
Pump chamber	EA	1	1	1	1	1	1	1
Bitron 72 W	EA	1	1	–	–	2	–	–
Bitron 110 W	EA	–	–	1	–	–	2	–
Bitron Eco 120 W	EA	–	–	–	1	–	–	2
Optional: Bitron Gravity	EA	1	1	2	2	2	3	4
Pump capacity / h = pond size / 4								
* Double-row configuration (the filter system must be operated in two filter rows that are separate from each other) see illustration below. This table considers the usual flow losses within the filter system. All references regarding our Filter / UVC combinations for special pond sizes are based on Mid-European climatic conditions. For other regions they could differ due to the water temperature and sun intensity.								

BIOLOGICAL PERFORMANCE OF THE HEL-X BIO MEDIUM IN THE MOVING BED MODULE:

50 l of Hel-X decomposes approx 340 g of fish food per day. If necessary, the fill level already contained can be extended from 50 l to 75 l (510 g fish food) per Moving Bed Module with an additional aeration. **Up to 3 Moving Bed Modules per row can be inserted in succession.** Among other factors, biological performance depends on temperature, food quality and the degree to which the Hel-X is settled with microorganisms.

Rules of thumb

How to calculate the right UVC power for your pond

Ponds **without fish stock**: 1 W UVC power per m³ pond volume
 Ponds **with fish stock**: 2 W UVC power per m³ pond volume
 Ponds **with koi stock**: 4 W UVC power per m³ pond volume

Note: To keep the bacterial load low in the koi pond, the Bitron Gravity should be operated with a max. flow rate of 12.5 m³/h. In this regard recirculation of 55% of the pond volume/h should be the objective. These recommendations are already considered in the table above.

Double-row configuration with ProfiClear as the example
 The filter system must be operated in two filter rows that are separate from each other.


Setup – gravity fed system





Setup – pump fed system





SELECTION TABLE – PROFICLEAR PREMIUM




Natural ponds & swim ponds		40 m ³	60 m ³	80 m ³	100 m ³	120 m ³	160 m ³	200 m ³
Drum filter module	EA	1	1	1	1	1	1	1
Moving bed filter module	EA	1	1	1	1	2	2	2
Individual module	EA	1	1	1	1	1	1	1
ProfiClear Premium Compact	EA	1	1	1	–	–	–	–
Bitron 72 W	EA	1	1	–	–	–	–	–
Bitron 110 W	EA	–	–	1	1	–	–	–
Bitron Eco 120 W	EA	–	–	–	–	1	–	–
Bitron Eco 180 W	EA	–	–	–	–	–	1	–
Bitron Eco 240 W	EA	–	–	–	–	–	–	1
Bitron Gravity (gravity-fed system)	EA	1	1	1	1	2	2	2
Pump capacity / h = pond size / 8								
This table considers the usual flow losses within the filter system. All references regarding our Filter / UVC combinations for special pond sizes are based on Mid-European climatic conditions. For other regions they could differ due to the water temperature and sun intensity.								



With fish stock		20 m ³	30 m ³	40 m ³	50 m ³	60 m ³	80 m ³	100 m ³
Drum filter module	EA	1	1	1	1	1	1	1
Moving bed filter module	EA	1	1	1	1	2	2	2
Individual module	EA	1	1	1	1	1	1	1
ProfiClear Premium Compact	EA	1	1	1	–	–	–	–
Bitron 72 W	EA	1	1	–	–	–	–	–
Bitron 110 W	EA	–	–	1	–	–	–	–
Bitron Eco 120 W	EA	–	–	–	1	1	–	–
Bitron Eco 180 W	EA	–	–	–	–	–	1	–
Bitron Eco 240 W	EA	–	–	–	–	–	–	1
Bitron Gravity (gravity-fed system)	EA	1	1	1	1	2	2	2
Pump capacity / h = pond size / 4								
This table considers the usual flow losses within the filter system. All references regarding our Filter / UVC combinations for special pond sizes are based on Mid-European climatic conditions. For other regions they could differ due to the water temperature and sun intensity.								



Koi ponds		15 m ³	20 m ³	25 m ³	40 m ³ (Pump-fed system)	50 m ³ (Gravity-fed system)	60 m ³	70 m ³	90 m ³
Drum filter module	EA	1	1	1	1	1	2*	2*	2*
Moving bed filter module	EA	1	1	1	2	3	3	3	4
Individual module	EA	1	1	1	1	1	2	2	2
ProfiClear Premium Compact	EA	1	1 (Gravity-fed system)	1	–	–	–	–	–
Bitron 110 W	EA	1	1	–	–	–	–	–	–
Bitron Eco 120 W	EA	–	–	1	–	–	2	1	–
Bitron Eco 180 W	EA	–	–	–	1	–	–	1	1
Bitron Eco 240 W	EA	–	–	–	–	–	–	–	1
Bitron Gravity (gravity-fed system)	EA	1	1	2	–	2	3	4	4
Pump capacity / h = pond size / 1.5									
* Double-row configuration (the filter system must be operated in two filter rows that are separate from each other) see illustration to the left. This table considers the usual flow losses within the filter system and expert recommendations for sterilisation capacity in koi ponds. All references regarding our Filter / UVC combinations for special pond sizes are based on Mid-European climatic conditions. For other regions they could differ due to the water temperature and sun intensity.									