

**JBL**

# JBL POND GUIDE



**VORSPRUNG  
DURCH FORSCHUNG**  
AHEAD THROUGH RESEARCH







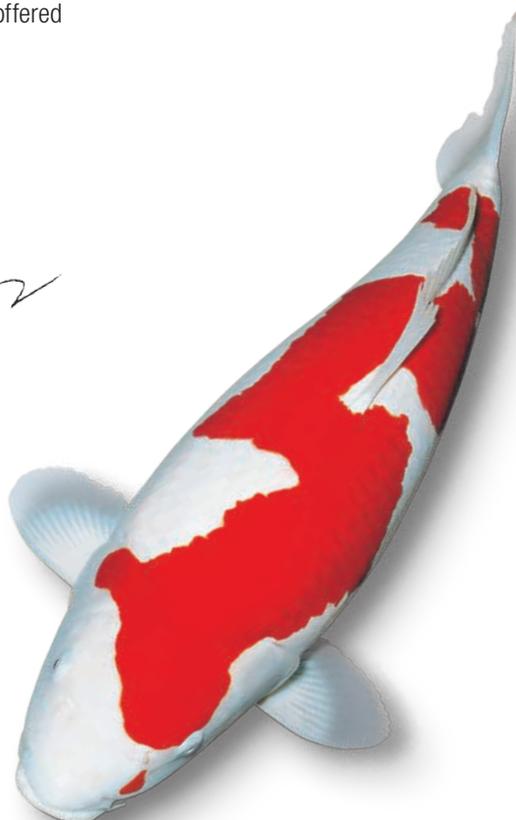
Dear Pond Enthusiasts,

This is the first time we present our pond manual in the form of both handbook and reference work. In the first part you will find articles about all issues concerning ponds and pond animals. In the second part of the book we will give you a complete outline of all JBL pond products. With the JBL PRO-POND food range for koi and pond fish JBL has really created something totally unique: a food concept, which not only meets the requirements of the fish as a seasonal concept, but also takes their other living conditions into account. All these factors have resulted in the NEO index which includes the right protein/fat ration for each respective food. Thanks to this new concept, your fish will remain healthy and colourful, allowing you to enjoy their company on the long term. These are the guarantees offered to you by JBL!

Kind regards,

A handwritten signature in black ink, which appears to read 'Roland Böhme'.

Roland Böhme



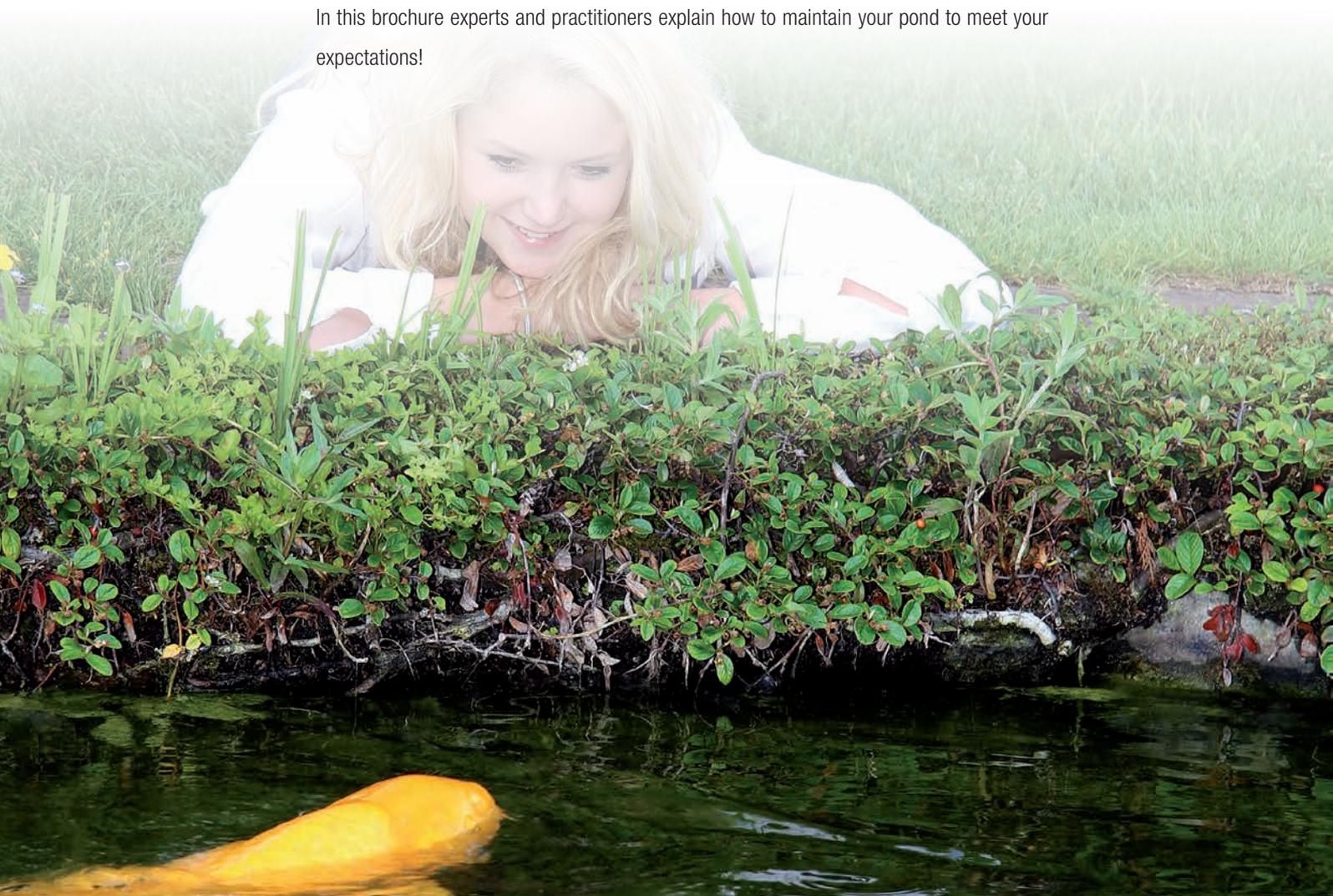


# Introduction

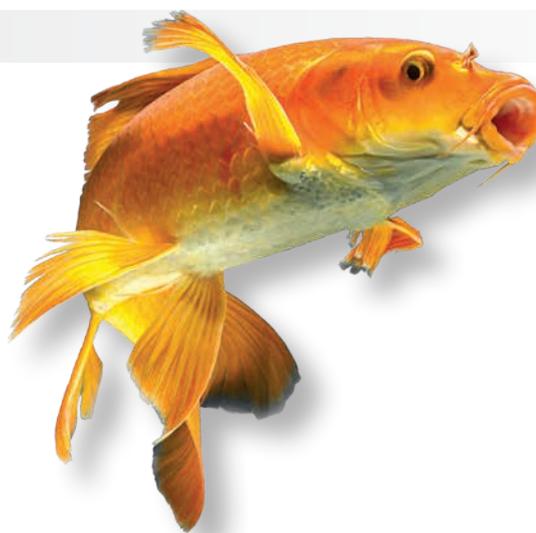
**A** pond is like a car: There are different types and they need a certain level of maintenance. Of course you can also drive your car without without maintenance or inspections. But it may prove very costly, as neglecting your regular oil changes could result in you having to buy a new engine. And you don't need to look after your paintwork, if you don't mind a faded bodywork full of scratches.

Those who just let their ponds be, have to live with the consequences: The pond will silt up building up more and more nutrients and soon become a paradise for algae. Parasites will spread and the plants will deteriorate.

With a certain level of water, plant and fish maintenance you'll prevent problems from arising and ensure that your paint – sorry pond – always looks as good as you want it to! In this brochure experts and practitioners explain how to maintain your pond to meet your expectations!



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## Life insurance for your fish



### Professional tip:

*If you want to see these pH fluctuations in black and white, just measure your pond pH with a pH test once in the morning at sunrise and once in the evening AFTER sunset. Should your pH value differ by more than 2 degrees, urgent action is needed!*

It's a hard life for a pond: Being exposed to all weather conditions, it gets unwanted rainwater and it has to digest leaves, pollen and any particulate matters that drops in.

Rainwater sounds positive at first for most of us. Clean free natural water. Putting aside the matter of air pollution, let's take a look at the composition of rainwater: In principle rainwater is distilled water and therefore free of minerals. And that is just the problem! Tap and well water contain minerals, which are essential to the functioning of the pond, whether it's a garden or koi pond. They are the water's life insurance for all living organisms contained within.

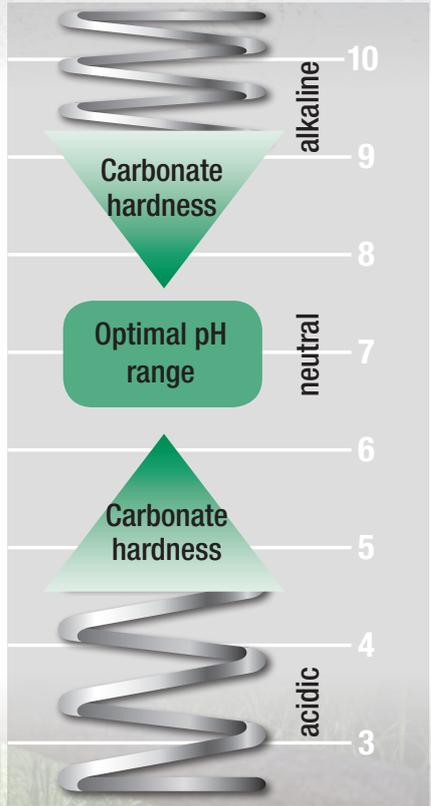
The minerals in question are called general hardness and carbonate hardness. Let us start with the carbonate hardness, which meaning is only understood by a few people. It's not that simple to explain it in an easily understandable way either. The minerals in the carbonate hardness have the property to bind acids and alkalines. During the course of the day the acidity of the pond water changes (decreases) and the pH value rises. At night the opposite happens (the acidity rises) and the pH value drops. That's how the pH level fluctuates within certain limits. The carbonate hardness makes sure that the fluctuations in acidity don't become too important.

Chemists say that the carbonate hardness buffers the pH value, meaning that both the increase and the decrease is reduced, or buffered. When the carbonate hardness falls below certain values, this effect fails and the pH value as a measure of the acidity is no longer buffered. And because a pH fluctuation from 8 to 6 doesn't mean twice as acidic but, water that is, 100 times more acidic, this is, unfortunately, a dramatic situation for the pond dwellers. All this sounds more complicated than it really is. In brief: Add the essential minerals to your pond regularly with JBL StabliPond Basis and "insure" your pond against the effects of rainfalls and the problems caused by pH level fluctuations.

The second aspect is the general hardness (GH), in other words the magnesium and calcium content of the water. With very low GH values in your pond water, the fish need to spend up to 30 % more energy to cover their mineral balance (salt/water balance)! When you regularly add JBL StabliPond Basis into your water, you increase the mineral content of your pond water, which can at any time drop dramatically as a result of the rain water intrusion, and you therefore reduce the stress to your fish.



Daily results of pH levels in the pond in the summer on a sunny day at KH 0 and KH 4



**JBL StabiloPond Basis**  
*Basic care product for all garden ponds*



## Dead Filters

**N**ot every pond owner uses a filter (unfortunately). But if there is already a filter in the pond you need to spend a little time maintaining it.

Filters not only have the aim of removing turbidity from the water but also of providing ideal colonisation conditions for bacteria which decompose pollutants. A new or a newly cleaned filter is clinically dead. Bacteria haven't yet settled on the filter material and it needs several weeks before a filter has been completely colonised by bacteria. Therefore you need to give the bacteria a helping hand. JBL FilterStart Pond contains enough bacteria to activate your filter within a few days and therefore making it fully functional.

The use of JBL FilterStart Pond is not just recommended for initial startup, but also after the use of remedies, after disinfection measures or after the cleaning of the filter.



**JBL Filterstart Pond**  
*Filter bacteria to activate  
pond filters*



# Mudbath



**A**NY pond which is not roofed-over will build up sludge from leaves, aquatic plant leaves and other matter entering the air. Natural ponds and small lakes have the same problem and silt up more and more – a process, which can possibly take years to several centuries and cannot be prevented. In other words, this means that each non-draining pool, pond or lake has a limited lifetime. To protect the pond from this effect, you need to take countermeasures. A mechanical removal of dead leaves from trees and plants is already a big help! But please also help your pond under the water surface: The sinking

leaves form a layer of various thickness on the bottom and slowly get broken down by bacteria, using up oxygen. JBL SediEx Pond has been designed to promote and accelerate the removal of sludge. It consists of two components: Firstly of highly active cleansing bacteria, which decompose organic matter, and secondly of active oxygen, which makes this decomposition possible in the first place. Both components together are added to the sludge layer inside your pond.



**JBL SediEx Pond**  
*Breaks down sludge effectively and biologically*



## Sunglasses for the Pond

**M**any ponds are situated in the blazing sun and are hardly shaded by trees or buildings. This leads on one hand to high water temperatures and on the other hand algae problems can occur by interacting with water dissolved nutrients.

A glance into natural waters shows that, for example, in moors no algae growth is to be found! This has two primary causes: Moors often contain acidic water (low pH level), few nutrients and the water has a brownish colour. We can utilise this second feature in the pond. We don't even need to colour the water brownish but have only to use JBL AlgoPond Sorb to give it a brownish tinge. The colour of weak tea has the excellent effect in preventing algae, since it works like sunglasses to filter out some of the spectral components from the sunlight. So that the algae are no longer able to photosynthesise properly! And don't be afraid. When using JBL AlgoPond Sorb your water will stay crystal-clear and only a very slight teacoloured tinge will be visible.

*Creating shade with an awning*



### JBL AlgoPond Sorb

*Algae blocker by physical means: Reduces algae growth using "sunglasses effect"*

# Need for Clarification

**C**lear water is right at the top of almost all pond owners' wish list. There are several types of cloudiness that can upset us:

**Whitish cloudiness:** often caused by an explosive increase in bacteria. There can be many different reasons for this.

**Greenish cloudiness:** caused by suspended algae. This is usually caused by a combination of a lot of nutrients in the water and strong light entering the pond.

**Brownish cloudiness:** Mostly the whirling up of sludge (organic matter from the bottom) is the cause.



Anyone who has no UV-C water clarifier (JBL ProCristal UV-C) at hand, can treat greenish suspended algae blooms with JBL AlgoPond Green and eliminate other kind of cloudiness with JBL Clero-Pond. JBL CleroPond flocculates the cloudiness, which then gets caught by the filter or it sinks and can be vacuumed away



**JBL AlgoPond Green\***  
*Eliminates Green Water problems (suspended algae)*



**JBL CleroPond**  
*Removes all types of clouding quickly and reliably.*



**JBL ProCristal UV-C**  
*High-performance water clarifier for garden ponds*

\* Labelling according to EU Directive 98/8/EG: Use biocides safely! Always read labelling and safety instructions before use.



# Welcome New Arrivals!



**Y**ou buy healthy fish and put them into your pond – and that's it. But a few points have to be taken care of, so that all goes well. For the fish, this move is a completely different matter. Simply catching the fish causes them a lot of stress. Wriggling in the net often damages the fish's mucous membrane which is their protection against infection. That's why newly introduced fish are more susceptible to diseases than the fish already settled in.

JBL AccliPond has been developed to make the move and the acclimatisation to the new environment and to new water values easier for the fish. It protects the mucous membrane and strengthens the fish's resistance to disease. JBL AccliPond needs to be INSIDE the transport bag before the fish so that its

mucous membrane protecting agents can start working straight away. Before putting the animals into the pond it's best to add a dose to the pond water.

Furthermore the new fish need to get used to your pond's water values slowly because the degree of hardness (minerals) and the pH value may vary greatly. The move into deviating water parameters causes the fish enormous stress!

Therefore please open the transport bag straight away after arrival at your pond and add small quantities of water to the bag for half an hour. To get large koi used to the new values please put them in a tub. This way the new arrivals get used to the water temperature and the other new water parameters.



**Professional tip:**

*In addition to the temperature and the pH value, differences in the general and carbonate hardness play an important part in the relocation of fish. Experts measure the GH (general hardness) and KH (carbonate hardness) in the transport water and in the pond. Mostly ponds have a lower hardness and their mineral content needs to be raised BEFORE the new fish are added. JBL StabiloPond Basis is suitable for such cases. Fish easily tolerate hardness differences of up to 5 °dH. If the differences are greater the water needs to be adapted.*



**JBL AccliPond**  
*Activates resistance*



**JBL StabiloPond Basis**  
*Basic care product for all garden ponds*



## The Vitamin Cure

Your pond fish and koi will receive vitamins through the food you feed them and through the natural nutrition present in your pond. As with people the vitamin supply is only sufficient when a balanced diet is available. The same also applies to your pond dwellers, and therefore it is advisable to administer an extra dose of vitamins at least once a week. The most efficient method is to drip the vitamin concentrate JBL Atvitol onto the food, shortly before it is fed to the fish.

If your fish show symptoms of disease, the vitamin cure becomes the most important measure in addition to the addition of medicines. Medications only have an effect on pathogens, whereas vitamins strengthen the fish's resistance to disease and help it become healthy again.





## Using Millions of Helpers

**C**lear and nutrient-poor water without algae problems comes mainly from the billions of bacteria which break down pollutants. In new ponds and after the use of medications the bacterial fauna is non-existent or damaged. With the use of special bacterial preparations you can build up a working bacteria culture in your pond and thus ensure clear and healthy water.

JBL BactoPond contains living, highly active cleansing bacteria to break down protein, ammonium/ammonia and nitrate to prevent fish loss and to reduce algae growth. And the rule is here very simple: the more the better and an overdose is absolutely impossible.



**JBL BactoPond**  
*Biological pond cleaner*





# Making the Water Habitable



Tap water and well water are not always ideal for pond dwellers. Tap water can contain heavy metals, such as copper, lead and zinc, especially when the water hasn't been flowing in the domestic



water pipes made of metal for some time.

Unfortunately rainwater is no longer free of pollutants. Rainwater is often collected from the roof by means of metal pipes and the pond owner believes he is doing something

for the environment by supplying this water to his pond. While this is definitely a good thing to do, further metal ions can end up in the garden pond with the collected water. And this is why we have the water

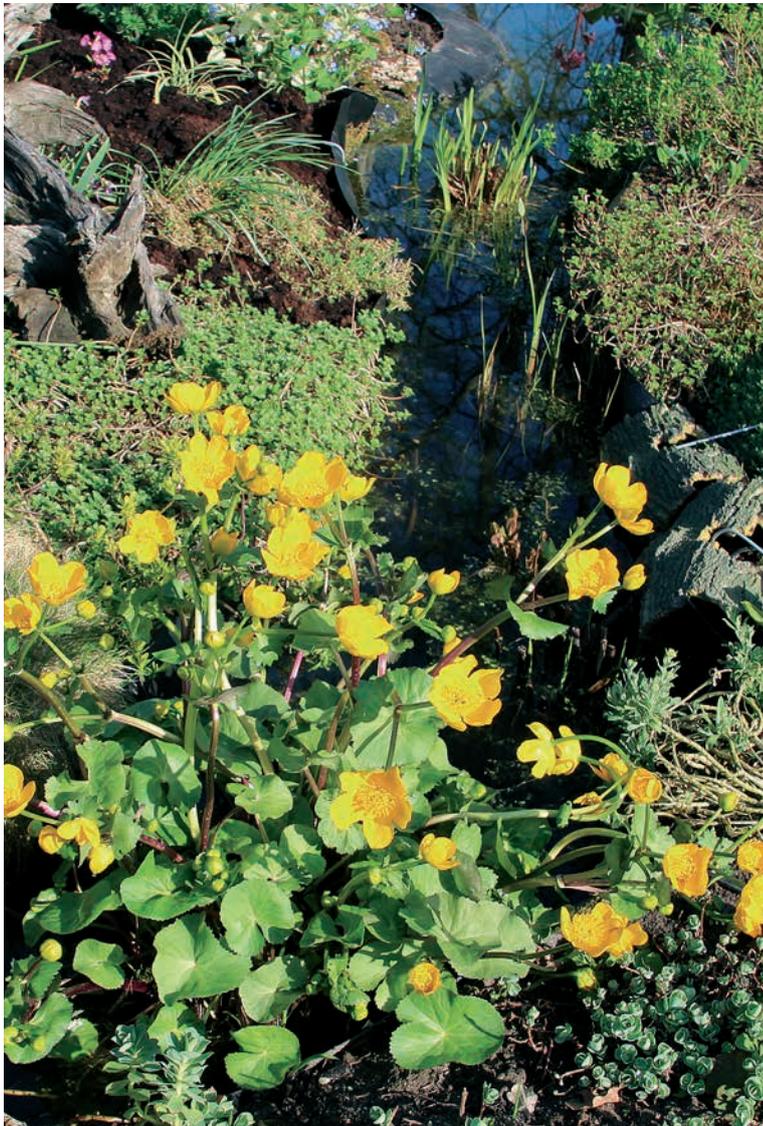
conditioner JBL BiotoPond to treat the water for the pond dwellers.

JBL BiotoPond binds heavy metals, protects gills, skin and fins and completely neutralises dangerous chlorine, should it be present in your tap water.

An additional effect of the water conditioner is that it makes any iron, which is to be found in well water and elsewhere, available to the plants. But be careful: Don't use well water for your pond, if it contains brownish flakes or if they form after it has been stagnant for any period of time. The metal content will be too high. In general you need to thoroughly check the composition of any well water before using it in your garden pond (see the chapter water test). Depending on the area there are large fluctuations in composition and quality. Normally iron is present in a form which the plants cannot use. Only the water conditioner's chelators make it possible for the plants to absorb iron.



**JBL BiotoPond**  
*Treats pond water quickly and adequately for fish*



## Feed Your Plants Too!

**J**ust like indoor plants and aquarium plants, pond plants also need nutrients and trace elements for healthy and thriving growth. With the help of fertiliser balls, which you press into the root area of the pond plants (best directly after the purchase), you provide all kinds of root forming marsh and aquatic plants with a long-lasting supply of nutrients, minerals and trace elements.

### Professional tip:

*If possible, remove all dying leaves! Dead organic matter, such as plant leaves, release the nutrients which were absorbed during its lifetime, and thus promote algae growth! Regular pruning of the marsh plants in autumn before the garden pond's dormancy is also a nutrient reducing measure. But leave about 10 % of the marsh plant's stem above the water surface. They serve as hibernation places for many insects.*



**JBL FloraPond**  
Fertiliser balls for pond plants







# Water Test "For Dummies"



While the title of the well-known book series may suggest the opposite, these books are actually full of excellent explanations for complicated facts. And that's exactly what we also want to try and do, because the subject of water test/water chemistry puts a lot of people off.

### JBL PONDCheck

In only a few minutes this rapid test will help you to determine whether your pond water is stable (carbonate hardness, if there is sufficient mineral content) and within which range the pH level (acidity) is. For this simple test you don't need to have studied chemistry to check two important water parameters, whether their values are okay or not.

### JBL Phosphate Test Koi

Phosphates dissolved in the water promote unwanted algae growth. With the help of this water test you can find out within 5 minutes how high the phosphate content of your pond water is. For values over 0.25 mg/l you require a phosphate remover to lower the phosphate content. While using the phosphate removers, continue to monitor the results.

### JBL COMBISET Pond

This "small test case" contains the most important water tests for the analysis of pond water, with result sheets, syringe to easily measure the right water amount, colour charts to compare the colours resulting from the test, test reagents and vials to carry out the tests.





### JBL TESTLAB Koi

It is especially important for Koi owners to know that their valuable fish are well in the pond at all times. Using this test case you can check ALL the relevant water parameters and then optimise them, if necessary. You can check whether the well water is suitable for your pond, how much nutrient there is in your pond, how hard your tap and pond water are, and whether substances accumulate in the water which can prove dangerous for your fish. In addition to a pen and result sheets the splashproof plastic case includes all the utensils you require for simple but professional water testing.



### JBL PROSCAN

Use the technical possibilities of your smart-phone for an extremely accurate water analysis in only 60 seconds! With special test strips, you can measure and evaluate six important parameters of your garden pond precisely. Using the free app ([www.jbl.de/en/proscan](http://www.jbl.de/en/proscan)).



Detailed information about PROSCAN:  
[www.jbl.de/en/proscan](http://www.jbl.de/en/proscan)

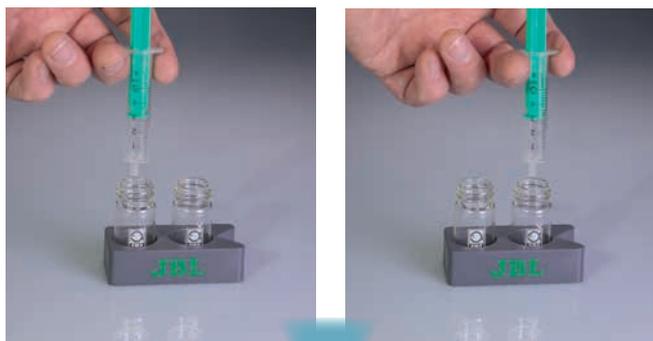


# Water testing is that simple with JBL Test Sets:



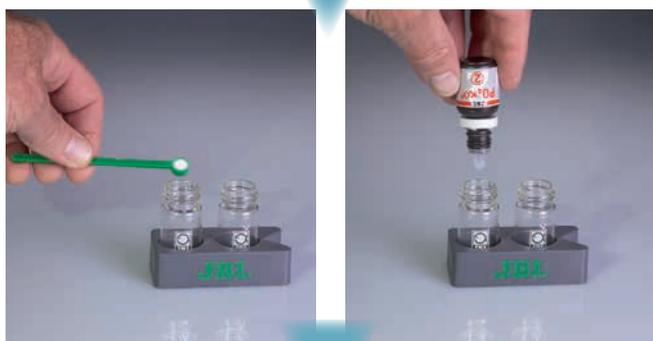
**F**or a regular monitoring of your pond water JBL offers a series of test kits. With most of the tests, a reagent is added to change the colour of the water. JBL tests have a special feature to make the reading easier and extremely accurate: Instead of only comparing the colour change of the water on a colour scale, a second measuring

vial with the pond water is also put on the colour chart. This water then appears to have (optically) changed its colour, which makes it easier to compare it very accurately with the water colour of the other measuring glass vial. This system of comparison is called comparator system. It compensates natural water discoloration.



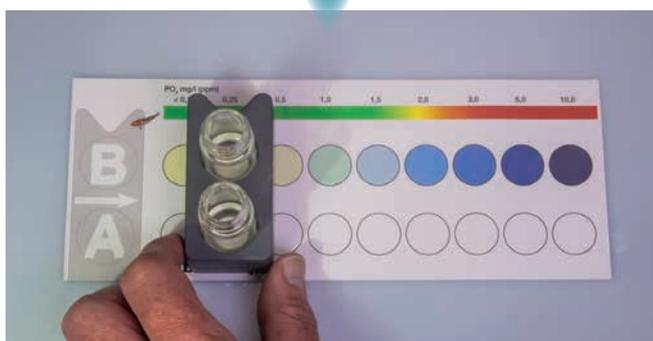
**1**

**Use the enclosed syringe to fill each of the test containers with sample water.**



**2**

**Add the reagent to one of the test containers.**



**3**

**Move the comparator block with the two test containers backwards and forwards on the colour chart with the notch pointing to the values, until the colour of the sample treated with reagent matches the colour under the blank sample as closely as possible.**



# Seasonal Pond Care



## Spring

In spring two processes happen at once:

On the one hand the water temperature rises and the fish start to become active after the winter. Then it is essential to choose the right food for low temperatures (JBL PROPOND SPRING) and add extra vitamins to the food (JBL Atvitol), to strengthen the resistance of the animals, which is the only measure to effectively prevent disease problems, such as spring viraemia.

On the other hand the many nutrients dissolved in the water (nitrates, but even more phosphates) result in burgeoning algae growth as soon as the solar radiation increases. The shade provided by the water plants and other vegetation around the pond is still missing. This means that spring is almost the last chance in the year to bind the nutrients and thus deprive the food source of the emerging algae (eg. JBL Phos EX Pond Direct).

At the same time the monitoring of the water quality (carbonate hardness) is strongly advised because rain falls strongly dilute the mineral content and this leads to very soft water. Check the carbonate hardness either with the JBL KH Test or with the JBL PondCheck, in order to find out how stable your water is after the wintertime.

## Summer

In summer three situations arise at the same time:

Firstly the oxygen content drops, due to rising temperatures in the water and aeration can become necessary. By the way, aeration is not only essential for the fish, but also for the bacteria which break down pollutants.

The high water temperatures make an easily digestible food necessary for the pond fish (JBL PROPOND SUMMER).

Strong thunderstorms in summer with heavy rainfalls decrease the water hardness drastically and your pond water is no longer stable. With JBL StabiloPond KH you can re-stabilize your water and prevent high fluctuations of pH level.





## Autumn

In autumn several factors have to be considered:

To prevent losses, fish have to be prepared for the winter-time. Due to leaf fall, water pollution with organic substances increases.

Aquatic plants and algae die slowly in the winter phase and release the stored nutrients back into the water. This creates the ideal conditions for the algae in the coming year.

Autumn and early winter (before the start of the frost period) are the ideal times to remove nutrients from the pond water (to get them out of the water system for good!). These are the only times when the algae promoting nutrients are really free inside the water and not bound to the algae. The absorption of nutrients in autumn is vital for the coming year and water should be filtered through JBL PhosEX Pond Filter (nutrient export) or alternatively treat the pond with JBL PhosEX Pond Direct. Fish need to eat hearty and varied food in this phase to increase their resistance and to create reserves (JBL PROPOND AUTUMN). Sickness in fish in springtime is very often caused by insufficient building up for the winter. The addition of a vitamin supplement every 2 days to the food (JBL Atvitol) significantly increases the resistance of the fish. Leaf fall into the pond can be significantly reduced by using netting or can be counteracted by mechanically removal out the leaves. If lots of leaves have accumulated, then applying JBL SediEx Pond (bacteria & oxygen) will help.

## Winter

Although the pond is dormant in the cold season you nevertheless should pay attention to a few basic factors:

Not every winter is extremely cold and "warm" periods can occur where fish become active and want food. In these phases it is important and recommended to feed the fish, but only with a specific and easily digestible food which also mustn't stay long in the digestive tract of the fish during the low temperatures (JBL PROPOND WINTER).

If ponds are less than 150 cm in depth they may freeze over completely. With an ice-free device and a specific aeration under the device you can usually prevent the pond from freezing all the way to the bottom.

If a pump is in operation it should NOT be placed at the deepest point because it would mix all the water layers. A water temperature of 4 °C needs to be kept in the deeper zones in order for the fish to survive the winter.



# Algae Control

## 1-2-3 algae free



A few algae in the pond do not pose a problem and even form a component of a healthy pond. But once the water turns green or „blanket weed“ algae become rampant, you then have a problem which needs fixing. Effective and long-term algae control consists of three steps.



# Only 3 steps to clear water

# 1

## Step 1:

Stabilise the water by adding minerals to adjust the pH value of the water to enable the anti-algae agent of the second step to be effective. At too high a pH level the anti-algae agent won't work effectively, and extreme, short-term changes in pH value will endanger the stability of the biotope! In the evening before you add the anti-algae agent, add JBL StabiloPond KH to your pond water. This way your pH level will be stabilised and brought into a range where the anti-algae agents have an optimal effect.

# 2

## Step 2:

Now add the anti-algae agent, preferably aimed against the dominant type of algae. If there are several types of algae JBL AlgoPond Forte\* is the best choice. Should you have a problem with suspended algae (green water) please use JBL AlgoPond Green\*. For „Blanket Weed“ (green threaded formations on the bottom, plants and stones) please choose JBL AlgoPond Direct\*

It is generally important to add your chosen anti-algae agent to the pond IN THE MORNING. This is because the pH value of the water is the lowest in the morning and therefore the anti-algae agent can work most effectively then. Doing this in the evening would be counterproductive since the pH value rises in the course of the day and would restrict the agent's effectiveness.

# 3

## Step 3:

The third step relates to the removal of the algae nutrient phosphate. As soon as step 2 takes effect and the algae die, they release back into the water the nutrients they have absorbed during their growth. This provides an abundant food supply for the next algae generation. A phosphate remover (JBL PhosEx Pond) helps you prevent these nutrients from reaching the next generation of algae and therefore stops their ability to come back: the algae can't grow back anymore!

*JBL grants a functional guarantee on this 1-2-3 algae-free concept. It turned out in the many comments we received that 80 % had used the wrong dosage because they had IMPROPERLY estimated the number of litres of their pond! On the JBL homepage you can find a pond volume calculator which precisely determines the number of litres of your pond:  
[http://www.jbl.de/en/pond-laboratory/load\\_lab/23](http://www.jbl.de/en/pond-laboratory/load_lab/23)*



\* Labelling according to EU Directive 98/8/EG: Use biocides safely! Always read the labelling and product information before use.



# Fish Diseases

**M**any pond owners believe that fish diseases are mainly introduced and passed on by sick fish. Fortunately this is very rarely the case and it's mostly up to you whether your fish keep well and fit. More than 90 % of the diseases are caused by inappropriate living conditions, such as water values and inadequate nutrition!

On the JBL homepage you will find the JBL online laboratory, which gives you a complete outline of diseases (also in the aquarium) with over 500 pictures: <http://www.jbl.de/en/online-hospital>



## Parasites

### White spot disease (Ichthyo)



Scientific name: *Ichthyophthirius multifiliis*, also called white spots or Ichthyo.

This is a parasite from the group of the single-celled animals (Ciliates), which can be killed off quickly and safely with JBL MedoPond Plus\*. This parasite has a life cycle with several stages during which it cannot be killed. Only during the free swimming "swarm out" phase is a successful elimination possible. Therefore the treatment needs to be carried out over a time period of two weeks at a water temperature of 25 °C. With cooler temperatures the treatment time is prolonged. After completion of the treatment JBL AccliPond should be applied to aid the regeneration of the mucous membrane.





### Fish leech (Hirudinea)



These large leeches ( up to 5cm long) attach themselves to the fish skin, suck blood and afterwards cause bacterial and fungal infections. You can't combat leeches with over the counter medicines. Not even prescription medicines can kill the leeches' eggs. A mechanical removal of the leech is possible with pincers. Afterwards you need to add JBL Ektol bac Pond Plus\* into the pond water to prevent likely secondary bacterial infections. Alternatively there is the option to bathe the fish for a few minutes in a 2 to 3% sodium chloride (common salt) solution. The bath removes the leeches from the fish. A subsequent prophylaxis against bacterial infections is also advisable here.

### Anchor Worm (Lernaea)



Although this parasite, which can grow to about 20 mm long, is referred to as a "worm", it belongs to the group of crustaceans. The juvenile stages of these parasites can survive for about 5 days without a host. With JBL ArguPond Plus\* a quick and safe treatment is possible. Afterwards we recommend the application of an antibacterial remedy, such as JBL Ektol bac Pond Plus\*, in order to prevent a bacterial infection of the "wound". The infection with Lernaea crustaceans weakens the host fish and harbours the risk of a fungal or bacterial infection.

### Carp Lice (Argulus)



The carp louse Argulus is easily recognised on affected fish. It is a parasite, it can grow to more than one centimetre long, and has a round, flattened body. The carp louse belongs to the fish lice (Brachiura) with about 70 crustacean species which live parasitically. They bore into the fish's flesh to suck blood. Inflammations and infections can occur from the bite. If heavily infested, the fish will also lose weight.

Treatment: JBL ArguPond Plus\* has been especially developed to combat carp lice and copepods. Sodium chloride or potassium permanganate baths do not have any noticeable effect. Carp lice can also be removed from the fish using pincers. Afterwards an application of an antibacterial remedy, such as JBL Ektol bac Pond Plus\* is advised, in order to prevent a bacterial infection of the "wound".

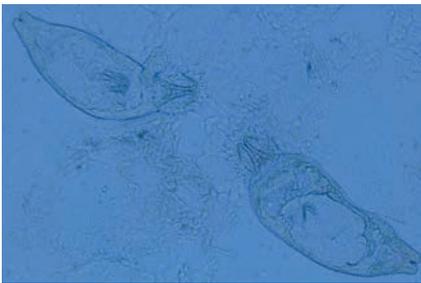


\*For information about risks and side-effects please read the pack insert and ask your veterinary surgeon or pharmacist.



## Parasites

### Skin and Gill Flukes and Tapeworms (Trematoda, Cestoda)



The pond fish's most frequent worm diseases can quickly and effectively be combated with JBL GyroPond Plus\*. Skin flukes (Gyrodactylus) can be seen by looking closely at the fish skin with the naked eye. Gill flukes (Dactylogyrus) can only be diagnosed reliably by means of a gill smear. For the egg laying gill flukes a second treatment is required. Tapeworms (cestodes) are only visible after the body has been opened.

### Fungal Infections (Achlya)



Fungal infections are easily recognisable on fish with their cotton wool-like formations. By adding JBL MedoPond Plus fungal infections can quickly and reliably be combated. It is very important to start the treatment quickly because the fungus deposits poisonous metabolic products into the fish metabolism. This poisoning is the main problem. The fish can easily regenerate the destroyed fish skin and surrounding tissue during the healing process.

The visible fungal infection is often a secondary infection. The primary infection can be of a bacterial nature. In such cases a combined treatment is advised: JBL Ektol bac Pond Plus for the bacterial primary infection, complemented by JBL AccliPond Plus which rebuilds and sustainably protects the destroyed mucous membrane of the fish.

### Mouth and Fin Rot (Aeromonas, Pseudomonas)



These two diseases can be recognised by the fraying, rotting off and later by the complete loss of body parts through this unpleasant looking disease. By adding JBL Ektol bac Pond Plus\* the disease can be stopped quickly and the fish is able to completely regenerate the body parts affected. To build up sufficient energy reserves for the fish we recommend adding JBL Atvitol to the food twice a week.

Mouth or fin rot is caused by water quality problems, even if the pathogen is of a bacterial nature. The causative bacteria of the Aeromonas and Pseudomonas group reproduce in the pond alarmingly quickly if the water quality is not right. To combat the diseases permanently not only the right remedy but also an improvement of the water quality is necessary. The most important values, which need to be checked and if necessary corrected, are: carbonate hardness (KH), pH (pH value), ammonium (NH<sub>3</sub>) and nitrite (NO<sub>2</sub>). All you need to know about these water values and how to improve them are to be found in the JBL Online Laboratory ([www.jbl.de/en/online-hospital](http://www.jbl.de/en/online-hospital)).





## Open Wounds, Ulcers etc.

### Bacterial Infections



Internal and external bacterial infections can take on a wide variety of appearances, which can quickly and reliably be combated with JBL Ektol bac Pond Plus\*. Whitish coatings often appear on the fish skin. However, bloodshot spots can also be discerned or completely different symptoms can occur. A clear diagnosis is only practically possible with a microscope. We often assume it is a parasitic infection, choose a suitable medicine, such as JBL MedoPond Plus\* and if it doesn't get better we use JBL Ektol bac Pond Plus\*, which is effective against bacterial infections. This needs to be followed by JBL AccliPond which rebuilds and sustainably protects the destroyed mucous membrane of the fish.

### Spring Viraemia, SVC / Viraemia / Erythrodermatitis



This is a viral disease in fish (especially in carp-like fish like koi.) The trigger is a virus by the name of Rhabdovirus carpio (RNA virus). This disease usually occurs in the spring in ponds with water temperatures between 10 to 20 °C. The symptoms are: bloodshot spots in the skin (at the edge of the fin), apathetic behaviour, sometimes pop-eyes and swollen abdominal cavities. Fish that survive the disease may remain carriers of the disease without exhibiting symptoms themselves. A direct treatment with medications is not yet possible. It is important to improve the keeping conditions of the fish. The addition of vitamins in the food with JBL Atvitol is very helpful and might be combined with JBL AccliPond which rebuilds and sustainably protects the destroyed mucous membrane of the fish. Raising the temperature to above 20 °C has also been reported as helpful (Dr. Sandra Lechleiter: Krankheiten der Koi, DATZ aquarium books).

### Ulcerous Proliferations on the Body, Skin Ulcers

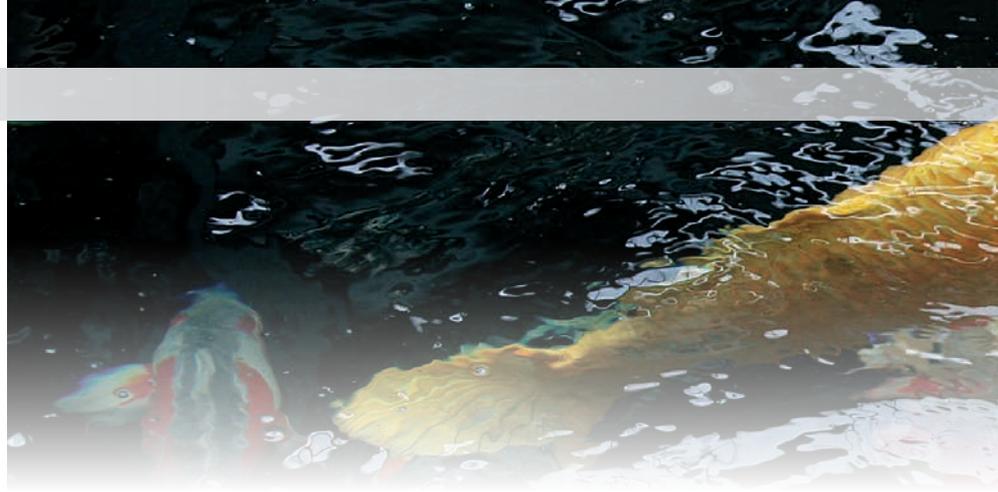


The triggers for ulcers and open wounds on the body of the fish are bacteria, which are always to be found latent in the water or on the body of the fish. In a bad environment they can reproduce at great speed and cause problems. An antibacterial remedy such as JBL Ektol bac Pond Plus\* is highly effective against the bacteria but not against the cause. It is essential that a cause study is carried out: water load, fish stock, planting, feeding and oxygen concentration need to be checked.

In the garden pond it is noticeable that these problems always occur in spring. Increasing temperatures, combined with increasing fish activity and missing energy resources are the main reasons for the outbreak of the disease. The remedy and even more so the prevention is quite simple: As soon as the fish come out of hibernation and start to feed, they need the right low-temperature food (JBL PROPOND-Spring). A weekly addition of JBL Atvitol provides the fish with strengthening vitamins to prevent an outbreak of the disease.



\*For information about risks and side-effects please read the pack insert and ask your veterinary surgeon or pharmacist.



### Open Wounds, Ulcers etc.

### Poisoning, Water Problems

#### Koi Herpesvirus, KHV, Koi Pox



Often occurs in summer, even in the best fish keeping conditions, and is highly infectious. The pathogen is a virus which only reproduces above 10 and below 30 °C and which can only affect koi. The fish show massive mucous membrane changes and they die within a few days. In the gills you can detect a significant necrosis (fading and decay). The result is often that the fish stay near the water surface to gasp for "air". Often you see their eyes are sunken. There is no really effective method of treatment. Surviving fish are carriers of the virus and therefore infectious all their lives.

#### Popeyes (Exophthalmos)



One or both eyes stand out of the head oddly. The causes of this clearly visible disease can be varied. In most cases the cause is a deterioration of the water quality. An examination of pH, KH, ammonium, nitrite, nitrate is strongly advised. It has also been observed that vitamin deficiency in the nutrition can cause popeyes. Please check if a varied diet is being fed to the fish and whether opened food containers are being used up within 3 months at most. 3 months after opening the food tin there are hardly any vitamins present in the food. A subsequent addition of vitamins with JBL Atvitol is then required. If only a few fish are affected it can possibly be a bacterial infection. In this case the rapid use of JBL Ektol bac Pond Plus\* is required to combat the disease and to prevent a further spread. But it can also be the incurable fish tuberculosis.

#### Nitrite Poisoning (NO<sub>2</sub>)



It is similar to an oxygen deficiency, which becomes discernible through heavy breathing, agitation of the fins and the fish hanging around under the water surface. A common symptom is also scratching! It is caused by the toxicity of the nitrite (NO<sub>2</sub>) (to be checked with JBL nitrite test set), which leads to an internal suffocation of the fish. It blocks the oxygen transport in the blood. Nitrite values from 0.1 mg/l are already critical and need to be rectified. The reasons for increased nitrite values are: disturbed bacterial balance in the pond due to bactericidal remedies, very low or high pH values (<6 or >8), too high fish stock, too low (biological) filter performance or too heavy feeding. Remedy: Carry out a 1/3 partial water change immediately and do not clean the filter at the same time, but instead wait one week. Add JBL BactoPond (nitrite degrading bacteria) to the water as soon as you discover the symptoms.





## Oxygen Deficiency



If fish breathe heavily and hang around under the water surface this can be a sign of oxygen deficiency or a poisoning symptom. Many pond owners think by mistake that the fish are only gasping for breath. But this is not quite correct. They are gasping for the thinner water layer, which is directly situated below the water surface, because this water layer has the highest oxygen content! By means of an oxygen test (JBL Test O<sub>2</sub>) you can quickly and easily determine whether there is a problem with oxygen. Only with an oxygen content of below 4 mg/l will you notice a higher breathing activity with most fish. The remedy is quite simple: With the help of an aeration pump and air stones (JBL PondOxi-Set) the oxygen content can be significantly raised in just a few hours. The oxygen content can also be increased by means of a water backflow in the filter. Basically the following applies: The more the water surface is moved, the more oxygen can be absorbed. At the same time the following also applies: The warmer the water the less oxygen can be absorbed from the water. It is, however, more difficult to determine why the oxygen level is so low. Dying organisms (fish, algae, plants) use up quite a lot of oxygen when they are bacterially broken down. Combating algae especially leads to an extreme decline in oxygen levels and this needs to be counteracted at all costs!

The symptoms of oxygen deficiency can also indicate nitrite poisoning (see nitrite poisoning).

## Metal poisoning

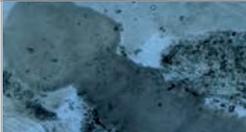
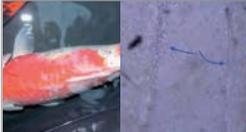
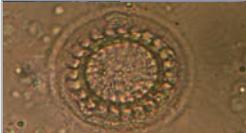
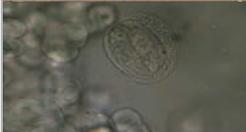


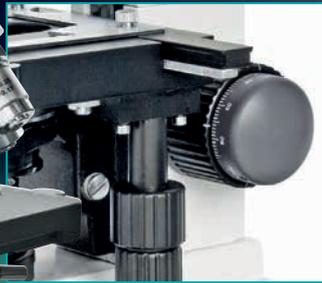
As a general rule metals do not belong in the pond water! A lot of metals have the property to release free metal ions (charged particles) to the water, which have toxic effects on invertebrates, fish and microorganisms. The more acidic the water (pH value below 7), the higher the percentage of dissolved metal ions in the water. An extreme situation occurs with (acid) rain, when the rainwater collects in roof gutters and is reused: The low pH value of the rain water dissolves large quantities of copper ions out of the mostly copper-bearing gutters, which then lead to symptoms of poisoning. Titanium zinc is mostly used for rain gutters. This material has a service life of several decades and yet has the merit of being relatively cheap. Roof gutters made of copper are relatively expensive when compared to other materials, but they do provide a very long service life. Care needs to be taken when multiple materials are used on the same building. Aluminium gutters are long-lasting but expensive. To be brief: A rainwater drainage system using metal gutters can lead to problems. Either you avoid this kind of water supply or you use a very effective water conditioner.

The water conditioner JBL BiotoPond results in the binding (chelation) of heavy metals. A water change is still necessary if you discern any poisoning symptoms. Be careful when using tap water. Metal pipes mean that lead, copper or zinc may be present in tap water. It is, therefore, absolutely necessary to use a good water conditioner when carrying out a water change!



# Overview parasites

Family of parasites		English name	Scientific name	ArguPond Plus	GyroPond Plus	MedoPond Plus
<b>Crustaceans (Crustea)</b>		Carp lice	Argulus	●		
		Fish lice	Livoneca	●		
		Anchor worms	Lernaea	●		
<b>Tapeworms</b>		Tapeworms	Cestoda		●	
<b>Trematodes</b>		Flat worms	Planarien		●	
		Gill flukes	Dactylogyrus	●	●	
		Skin flukes	Gyrodactylus	●	●	
<b>Leeches (Hirudinea)</b>		Leeches	New discovery: No medication is effective!			
<b>Protozoa</b>		White spots	Ichthyophthirius			●
		Costia	Costia (Ichthyobodo)			●
		Trichodina	Trichodina			●
		Chilodonella	Chilodonella			●



## Use your microscope like a professional.

JBL is cooperating with the well-known microscope manufacturer Bresser to offer you Bresser products at JBL sponsored prices. The JBL research team has been using Bresser microscopes on its research expeditions for many years under the toughest conditions. We also use Bresser microscopes for the JBL microscopy seminars because they are reliable and deliver high quality standards at an affordable price! A lot of fish diseases can only be diagnosed reliably under the microscope.



### **Erudit DLX 40-600x Mikroskop** Bresser Erudit DLX 40-600x Microscope

Achromatic DIN-objectives. Works with 230 V power or rechargeable, for flexible use. LED illumination with dimmer and Abbe condenser with field diaphragm  
Type: Transmitted light microscope /magnification: 40x-600x weight: 2.7 kg. Included Accessories: Microscope body, 10x eyepiece, 4 objectives (4x, 10x, 40x, 60x, Abbe condenser with field diaphragm and filter holder, blue filter, dust cover, power supply

Warranty	5 Years
Net Weight total (incl. accessories)	2.6 kg
Eyeiece Barrel Diameter	23 mm
Power supply:	230 V

The BRESSER Erudit DLX is a high-quality microscope for school, studies and hobby use. An integrated rechargeable battery makes the Erudit DLX for mobile use. The LED illuminator and the height adjustable condenser (with diaphragm and filter holder) offer an optimal illumination. The achromatic DIN-objectives allow a very good image. The 40x and 60x objectives are resilient to save the preparation for damage. The microscope has a 360° rotatable monocular view, coarse and fine focusing drive, and a coaxial mechanical desk with nonius.

#### INCLUDED ACCESSORIES

Microscope body  
10x eyepiece  
4 objectives (4x, 10x, 40x, 60x)  
Abbe condenser with field diaphragm and filter holder  
blue filter  
dust cover  
power supply 230 V

Art. no.  
**5102060**



### **BRESSER MikrOkular Full HD eyepiece camera**

Resolution 1920x1080 pixels (Full HD); Includes different adapters for various microscopes as well as capturing software compatible with Win 7 / 8 / 10. With this camera you can capture images and video, and document your microscope observations or share it with others.

Art. no.

**5913650**

### **BRESSER Microscope Cutlery Solingen Steel**

High-quality dissecting tool set for amateur and professional purposes. Made in Germany! No matter if amateur microscoper or professional - working with inferior tools is unsatisfying. Accessories 1 Spatula, 1 Scalpel, 1 Tweezer, 1 Scissor, 1 Slice catcher, 2 Preparation Needles, Imitation leather case

Art. no.

**5912100**

### **BRESSER Blank Slides/Cover Plates 50/100 pieces**

The set slides / cover plates is use to make Preparations for biological microscopes. The slide holds the preparation it will be covered with a cover plate. Smoothed edges, slides precleaned. Slides, dimensions 76x26x1.2 mm  
Cover plates, dimensions 18x18x; thickness 0.12-0.17 mm

Art. no.

**5916000**

### **BRESSER Blank Slides with Indentation**

Blank slides are used for your microscope sample, e.g. thin sections from plants or tissue, blood or bacteria smears, as well as pond life. Slides with Indentations are especially useful for plancton studies, there is enough space for bigger organisms and detritus.  
Specifications: ground edges, dimensions: 76x26x1 mm, quantity: 50 pieces

Art. no.

**5916600**





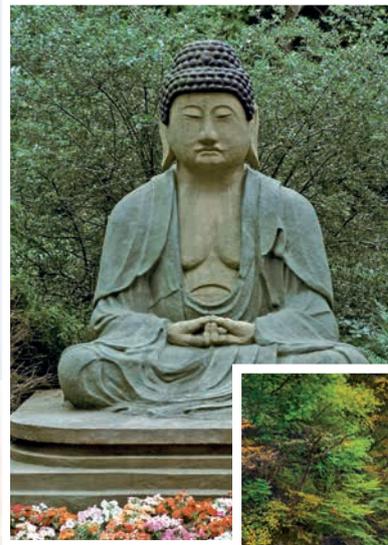
# JBL Japan Expedition 2019

**W**hile the first half of this JBL expedition will have koi as its focus, the second half will fire the participants' general interest in nature.

The first days will be taking us to the Highlands of North Japan to meet Koi breeders and learn everything you need to know about Japanese koi. Discussions with breeders, experts and wholesalers are on the agenda. Thanks to JBL's good connections with koi breeders we should manage to get an answer to any question. Afterwards we're taking off to the nearby Bandai-Asahi National Park to cold, but crystal-clear lakes and rivers. Straight after that we're travelling on into the Nikkō National Park to examine the impressive natural landscapes there and the aquatic cold water biotopes. Of course we won't miss the opportunity to take in some fascinating cultural sites – but the focus will be on koi and the natural landscapes of Japan.

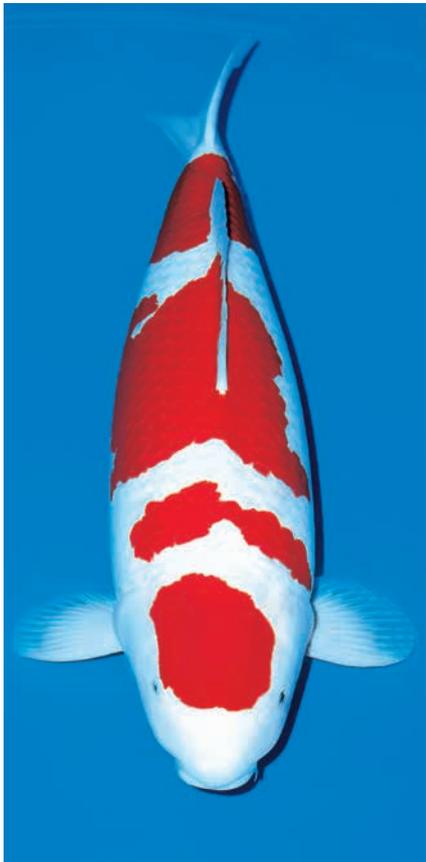
In the second part of the expedition we are flying 2500 km to the tropical island Okinawa, which is not only the birthplace of Oriental martial arts but also has the world's fourth clearest seawater. Diving and snorkelling we will explore the 26 °C ecosystems of the coral reefs with their endemic species, such as the Wrought-Iron Butterflyfish (*Chaetodon daedalma*). There are also a few interesting things to discover onshore: various shrimp species, crayfish and the popular coconut crabs live on this island paradise.

Thus the target group for this expedition is anyone interested in koi, freshwater invertebrates and seawater! The trip will take place in mid to late April 2019 and will last 16 days. The price and all other details will be announced on the JBL homepage at the end of 2016. You will also find the registration for the trip there. Anyone who is interested, but has already participated in a JBL expedition, will be set on a waiting list and will thus have a chance to take part if anyone drops out before the departure date. Everyone else will be drawn by lot.

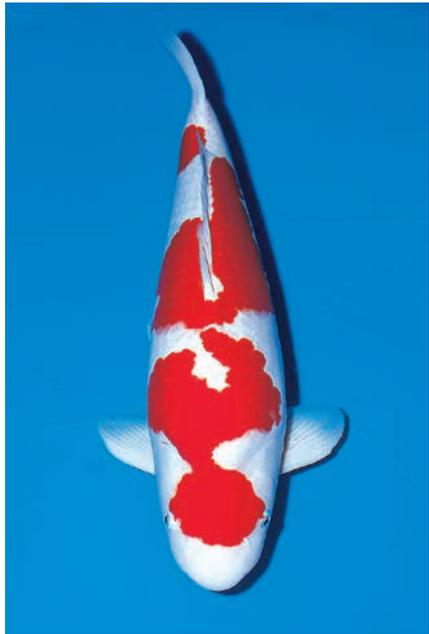
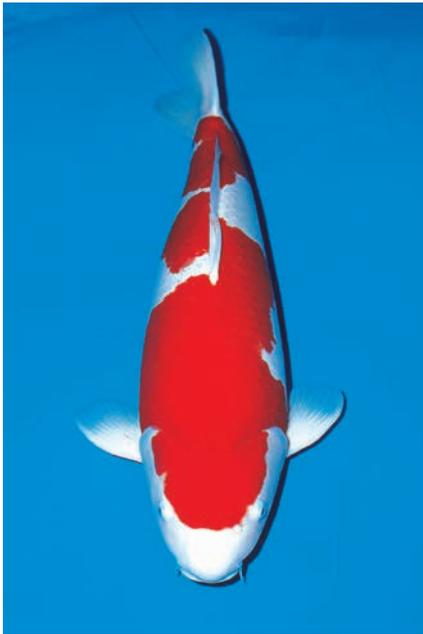




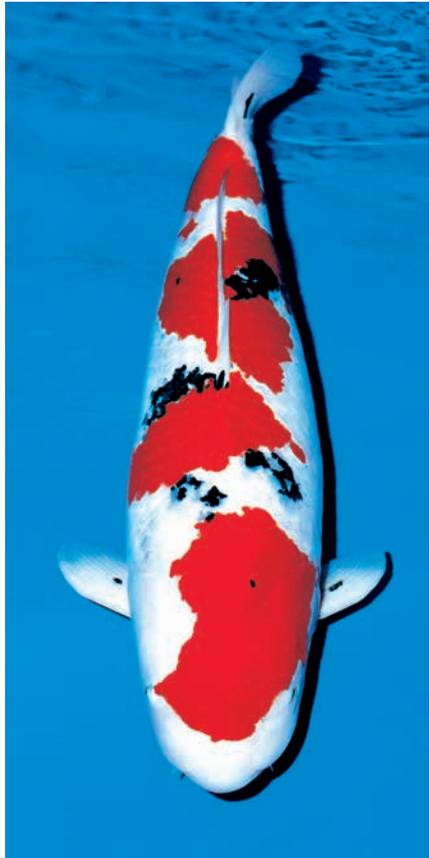
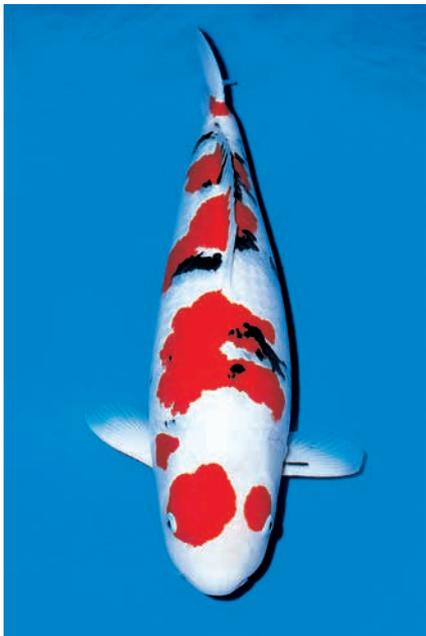
# Koi Varieties



**KOHAKU**



**TAISHO SANSHOKU**

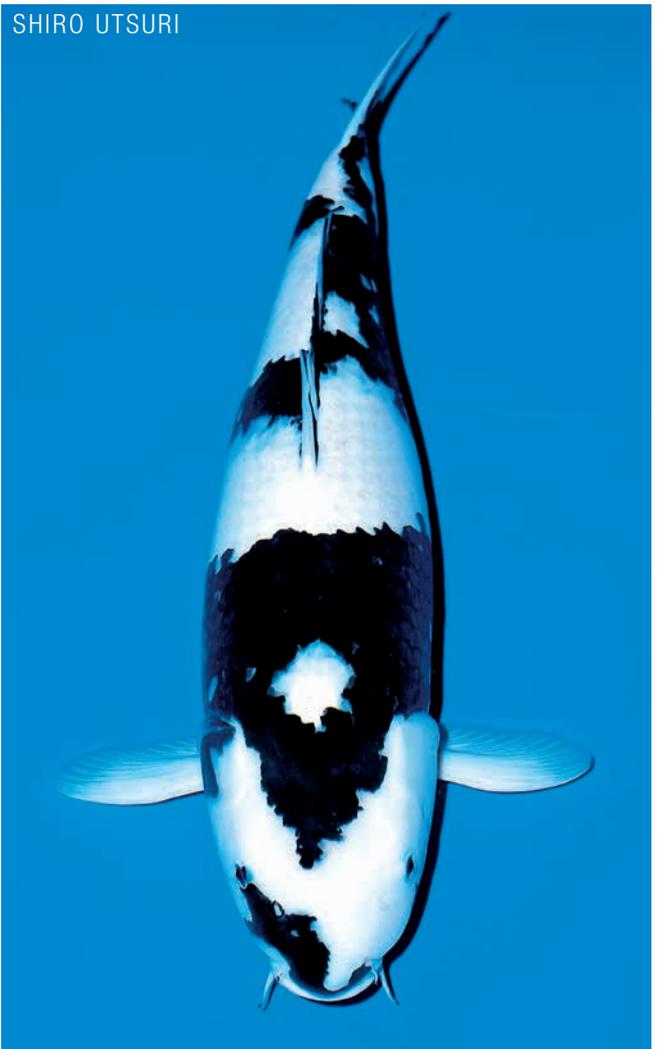
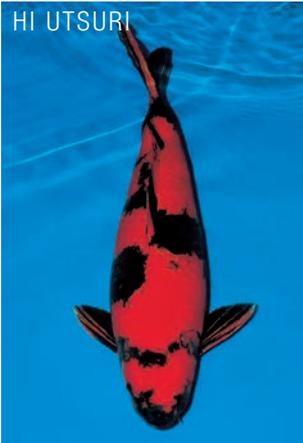




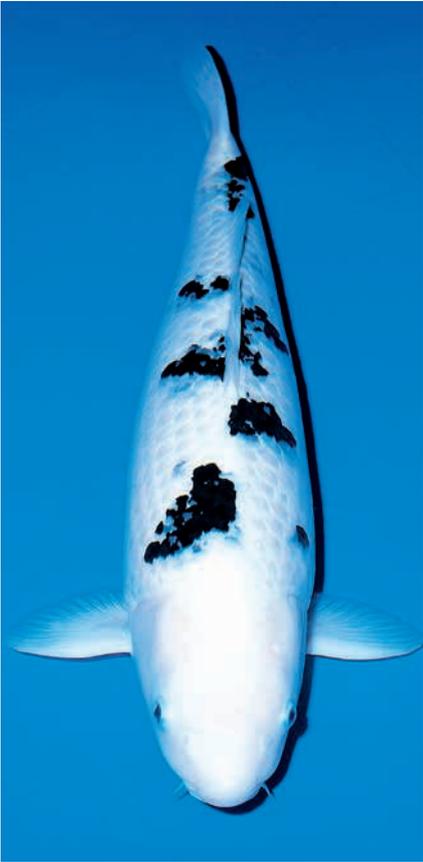
# SHOWA SANSHOKU



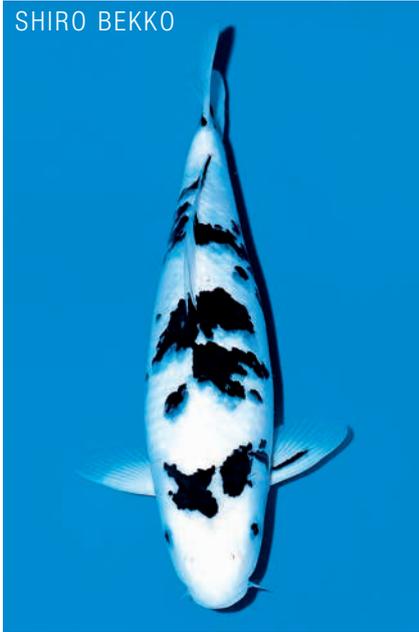
# UTSURI-MONO



# BEKKO



SHIRO BEKKO



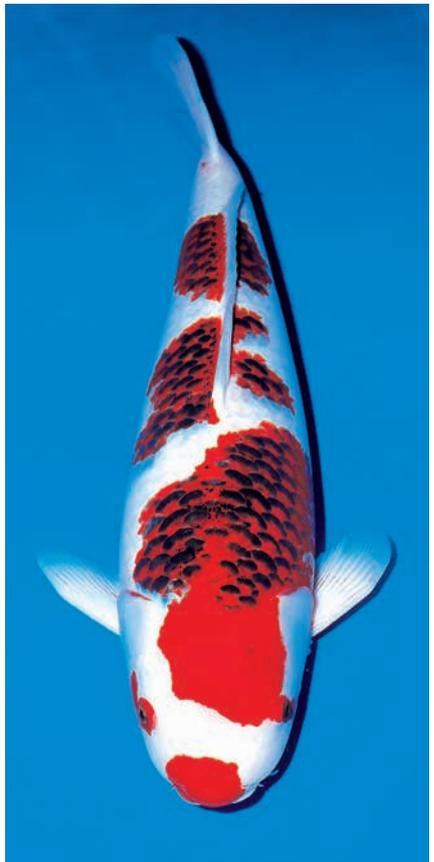
AKA BEKKO



# KOROMO



BUDO GOROMO

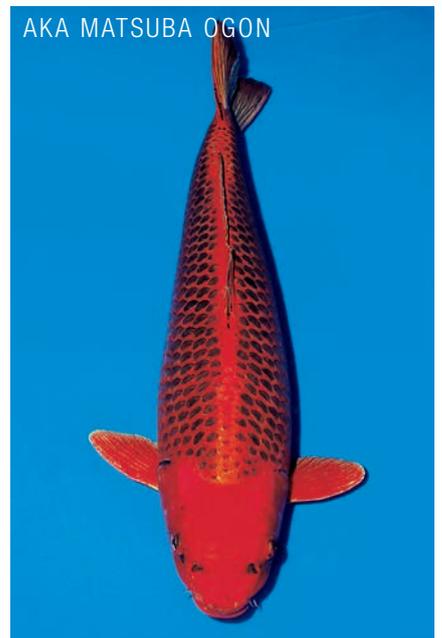
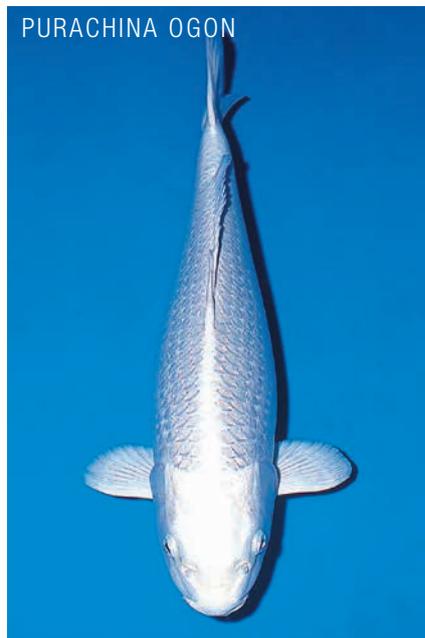




## GOSHIKI



## HIKARI-MUJI



# HIKARI-UTSURI

KINKI UTSURI

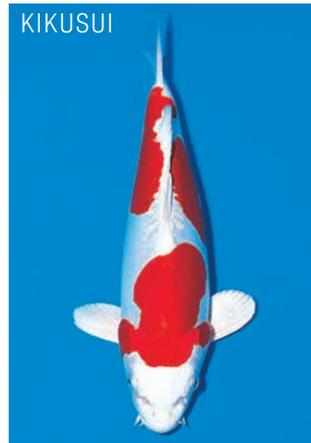


# HIKARI-MOYO

HARIWAKE



KIKUSUI



YAMATONISHIKI



GIN SHIRO



KIN SHOWA





# TANCHO

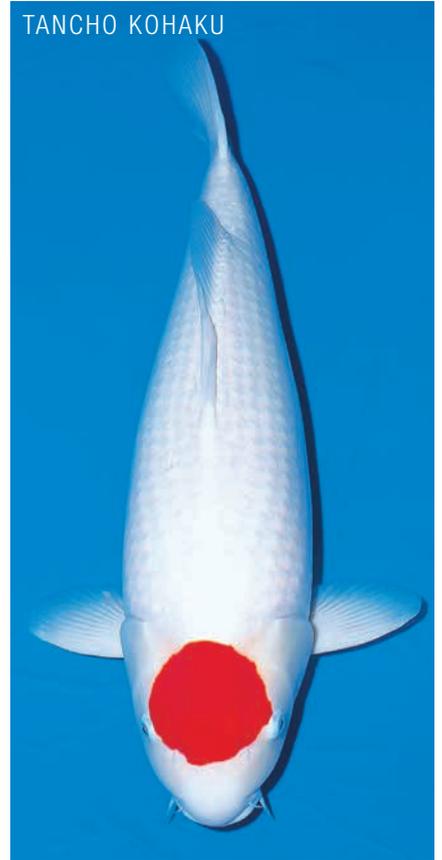
TANCHO GOSHIKI



TANCHO SANKE



TANCHO KOHAKU



# KINGINRIN

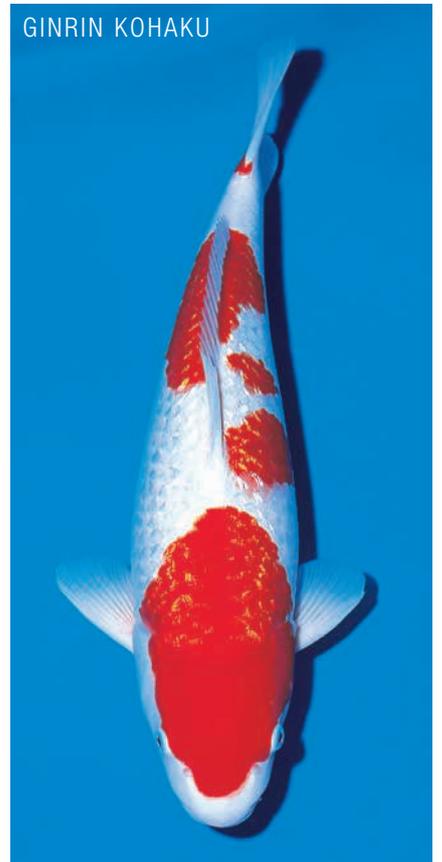
GINRIN MATSUWAKABAKE



GINRIN SHOWA



GINRIN KOHAKU



# DOITSU

DOITSU KOHAKU



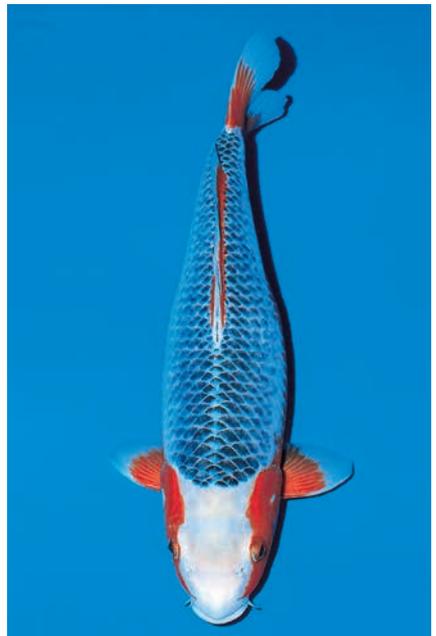
DOITSU SANKE



DOITSU SHOWA



# ASAGI

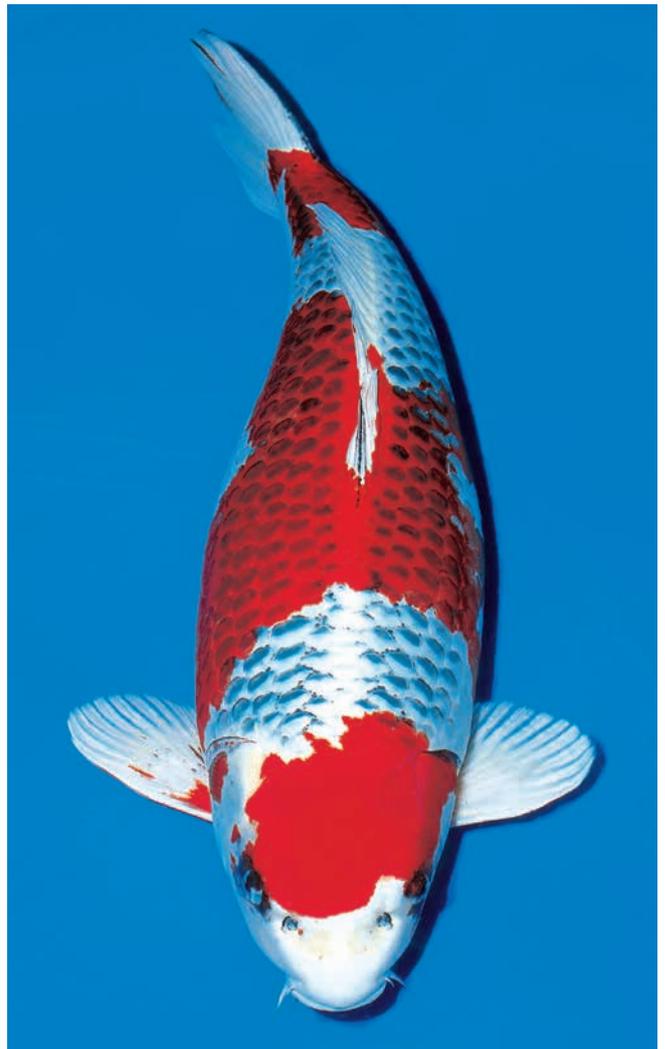




# SHUSUI



# KUJAKU





# KUMONRYU

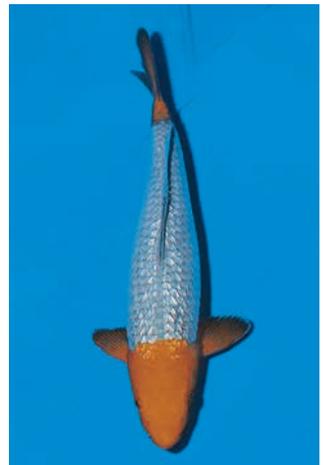
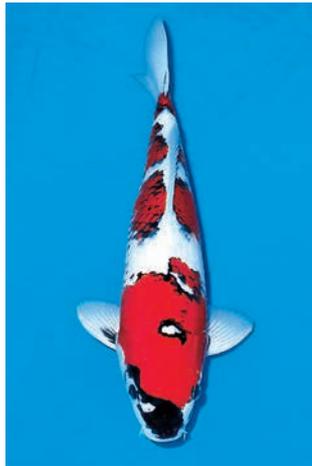


# KAWARIGOI





## SPECIAL KOI



The pictures of the koi varieties were kindly provided by KOI KURIER.

[www.koikurier.de](http://www.koikurier.de)

**KOI**  
**KURIER**  
Das unentbehrliche Fachmagazin für jeden Koi-Enthusiasten!



# PRO JBL POND®

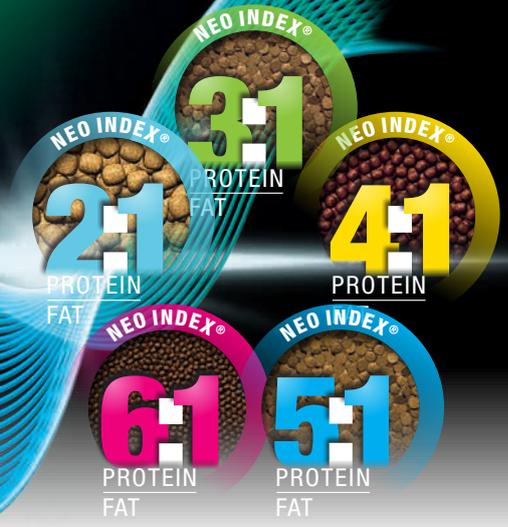


**NEO INDEX®**  
NATURAL  
ENERGY  
OPTIMIZED



## The Professional Pond Fish Nutrition with the NEO INDEX®

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## JBL PROPOND NEO INDEX

The new JBL PROPOND food is the only physiological-nutritional concept on the market.

Even if your pond fish are always hungry and greedily eat any food they can get it's important to get to grips with the subject of correct nutrition. Which factors are really important? It is not enough to select a food which is appropriate for the season. Proper nutrition needs to provide energy at the right time and in the right place. JBL's scientists have summarised all these factors in an index, that we named the NEO INDEX (Natural, Energy- Optimised nutrition). For the first time ever, JBL pond foods will give you over 100 articles which are created on the basis of the following criteria: animal size, age, function and water temperature, along with the corresponding protein/fat ratio.



### SEASON FOOD



		SEASON FOOD				
		10-25 °C FLOATING	10-20 °C FLOATING	20-30 °C FLOATING	10-20 °C SINKING	5-15 °C SINKING
		3:1	3:1	4:1	3:1	2:1
		24% 7% 4% 8%	25% 8% 3% 8%	28% 7% 3% 8%	28% 10% 2% 6%	18% 11% 2% 6%
NEO						
XS						
S		0.18 kg		0.34 kg		0.6 kg
		0.5 kg	1.1 kg	1 kg	1.5 kg	1.8 kg
		1.1 kg	2.1 kg	2 kg	3 kg	
		2.2 kg	4.2 kg	4.1 kg	6 kg	
		4.3 kg	8.4 kg	8.2 kg		
M		5.8 kg				
		0.5 kg	1.1 kg	1 kg	1.5 kg	1.8 kg
		1.1 kg	2.1 kg	2 kg	3 kg	3.6 kg
		2.2 kg	4.2 kg	4.1 kg	6 kg	
		4.3 kg	8.4 kg	8.2 kg		
L		5.8 kg				
						3.6 kg
				4.1 kg		
				8.2 kg		



52%  
PROTEIN / PROTEIN /  
PROTÉINES

9%  
FETTGEHALT / FAT  
CONTENT / MATIÈRES  
GRASSES

38%  
PROTEIN / PROTEIN /  
PROTÉINES

PROTEIN / PROTEIN /  
PROTÉINES

25%  
PROTEIN / PROTEIN /  
PROTÉINES

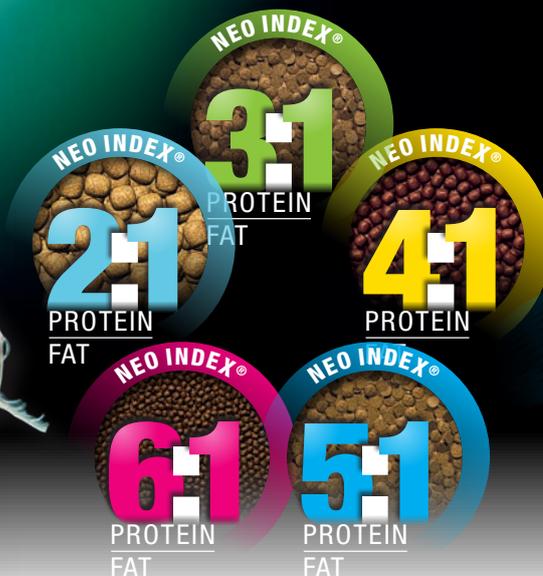
PROTEIN / PROTEIN /  
PROTÉINES

28%  
PROTEIN / PROTEIN /  
PROTÉINES

PROTEIN / PROTEIN /  
PROTÉINES

FETTGEHALT / FAT  
CONTENT / MATIÈRES  
GRASSES

ROHFASER / RAW  
FIBRE / FIBRES BRUTES



## THE PROTEIN/FAT RATIO

The NEO INDEX is based on the ratio of proteins to fats in the food. Looking at the season alone, the fish would only need half as much protein in winter (2:1) as in summer (4:1). But because not only the season (which means water temperature), but also the size and age of the fish, and food function (e.g. growth food = PROPOND GROWTH) play determining roles, the NEO INDEX has been developed, to indicate the right protein/fat ratio.



**XS**



**S**



**M**



**L**



### PROTEIN

**Proteins** are basic components of the body and necessary for the building and renewal of body cells. Proteins as enzymes and hormones are also responsible for a wide range of tasks in the body. Amino acids are also classified as proteins and they create important conditions for healthy and good growth. Proteins can be found in all raw materials. Particularly suitable for the pond fish are protein sources from fish, crustaceans and molluscs.

### FAT

**Fats** provide an important energy storage in the body and are therefore an especially important food component when higher storage is required (before winter). In addition there are also essential substances in fats (which the body cannot produce and have to be taken via food). High-quality fats with many Omega-3 and Omega-6 fatty acids are therefore an important supplement in fish food. Fish oil especially provides quite naturally the ideal composition of fats for our pond fish and further important substances, such as carotenes which support the colouring of the fish.

**NATURAL ENERGY OPTIMIZED**  
**NATÜRLICH OPTIMIERTE ERNÄHRUNG**  
**ALIMENTATION NATURELLEMENT OPTIMISÉE**

**NEO INDEX 3:1**  
**3:1**  
**PROTEIN**  
**FAT**

**25%** PROTEIN  
**8%** FAT  
**3%** ROUGHAGE  
**8%** CRUDE ASH

**WAFER S** **3 mm**  
**NEO INDEX 3:1**  
**PROTEIN**  
**FAT**

**WAFER S** **3 mm**  
**NEO INDEX 3:1**  
**PROTEIN**  
**FAT**

If you find, for example, for the spring food (JBL PROPOND SPRING) the same protein/fat ratio (3:1) as for the autumn food (JBL PROPOND AUTUMN), a quick look at the exact composition shows that they are not the same food in different packages but that the ingredients show significant differences. In autumn the fish need a higher protein and fat content than in spring to build up energy reserves for the coming winter. So although both contents are showing the same ratio, they are higher than in the spring food. In return the crude fibre and crude ash contents are slightly lower than in autumn, so as not to burden the digestive tract too long in the upcoming winter. Moreover the spring food is a floating food and the autumn food is a sinking food. Fish need to come to rest in autumn and shouldn't be forced to come to the water surface to feed.



**RAW FIBRE**

Just like us, our fish need an indigestible proportion of their diet to support the digestion. The **raw fibres** make sure that the food is better absorbed.

**CRUDE ASH**

In **crude ash** substances can be found which can be absorbed as minerals or trace elements and are essential for many processes in the body. Important for the formation of the skeleton are, for example, calcium and phosphorus, for the metabolic processes sodium, potassium, magnesium, calcium and chlorine, and iron for the function of oxygen transport.

# PRO POND®

# JBL

## SEASON FOOD



### THE INFLUENCE OF THE SEASONS

Even if the seasons are not the same all around the world the water temperature plays a determining role for the feed composition. If you want, you can also use one food as complete food (JBL PROPOND ALL SEASONS), in the same way as many people drive with all-season tyres instead of summer and winter tyres. But it is even better to select the feeds which are specially designed for their respective water temperature. You will find the temperature specifications on the right hand side of the front of the packaging.

PROPOND®

SEASON FOOD

FUNCTION FOOD

SPECIAL FOOD

GOODY FOOD



WATER TEMPERATURES

WINTER

SPRING

SUMMER

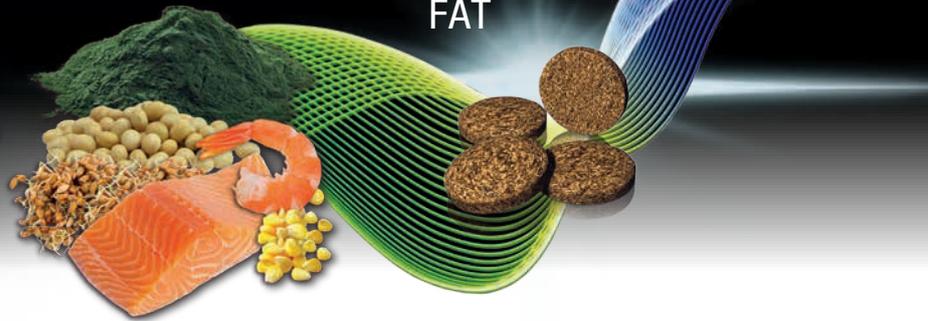
AUTUMN

WINTER





## SPRING



### SPRING FOOD FOR KOI

- REVITALISATION FOR THE SUMMER
- NEO INDEX 3:1 PROMOTES ACTIVITY

**25%** PROTEIN | **8%** FAT CONTENT | **3%** RAW FIBRE | **8%** CRUDE ASH

### JBL PROPOND SPRING

#### Spring food for koi

(at 10-20 °C water temperature)

With the right protein/fat ratio of 3:1 in accordance with the NEO INDEX, taking temperature, function, animal size and age into account. With salmon, soya, shrimp, wheat, spinach and spirulina for vigorous and healthy koi.

**Food size S** (3 mm) for fish 15-35 cm.

**Food size M** (6 mm) for fish 35-55 cm.

Floating food wafers with 25 % protein, 8 % fat, 3 % crude fibre and 8 % crude ash.

Food wafers in resealable (air, water and lightproof) bag for the preservation of quality.

PRODUCT CONTENT ART. NO.

PRODUCT	CONTENT	ART. NO.
<b>WAFER SINKING S</b>	3 mm	15-35 cm
JBL PROPOND SPRING S	1.1 kg	41209
JBL PROPOND SPRING S	2.1 kg	41210
JBL PROPOND SPRING S	4.2 kg	41211
JBL PROPOND SPRING S	8.4 kg	41212

PRODUCT	CONTENT	ART. NO.
<b>WAFER SINKING M</b>	6 mm	35-55 cm
JBL PROPOND SPRING M	1.1 kg	41215
JBL PROPOND SPRING M	2.1 kg	41216
JBL PROPOND SPRING M	4.2 kg	41217
JBL PROPOND SPRING M	8.4 kg	41218

**Feeding recommendation:** Feed once or twice a day as much as can be eaten in a few minutes.



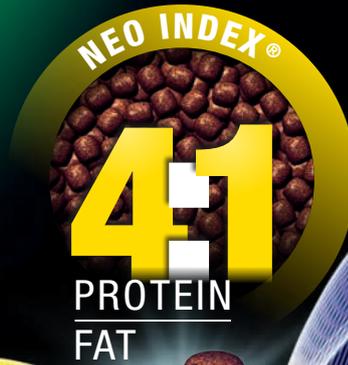
NEO INDEX® - NATURAL ENERGY OPTIMIZED



# PRO POND®

# JBL

# SUMMER



## SUMMER FOOD FOR KOI

- EASY TO DIGEST WITH GAMMARUS
- NEO INDEX 4:1 FOR HIGH TEMPERATURES

**28%** PROTEIN | **7%** FAT CONTENT | **3%** RAW FIBRE | **8%** CRUDE ASH

## JBL PROPOND SUMMER

### Summer food for koi

(at 20-30 °C water temperature)

With the right protein/fat ratio of 4:1 in accordance with the NEO INDEX, taking temperature, function, animal size and age into account. With corn, salmon, soya, shrimp, gammarus and spirulina for vigorous and healthy koi.

**Food size S** (3 mm) for fish 15-35 cm.

**Food size M** (6 mm) for fish 35-55 cm.

**Food size L** (9 mm) for fish 55-85 cm.

Floating food pearls with 28 % protein, 7 % fat, 3 % crude fibre and 8 % crude ash.

Food pearls in resealable (air, water and lightproof) bag for the preservation of quality.

PRODUCT CONTENT ART. NO.

PEARLS S FLOATING	3 mm	← 15-35 cm →
JBL PROPOND SUMMER S	0.34 kg	41222
JBL PROPOND SUMMER S	1 kg	41223
JBL PROPOND SUMMER S	2kg	41224
JBL PROPOND SUMMER S	4.1 kg	41225
JBL PROPOND SUMMER S	8.2 kg	41226

PEARLS M FLOATING	6 mm	← 35-55 cm →
JBL PROPOND SUMMER M	1 kg	41228
JBL PROPOND SUMMER M	2 kg	41229
JBL PROPOND SUMMER M	4.1 kg	41230
JBL PROPOND SUMMER M	8.2 kg	41231

PEARLS L FLOATING	9 mm	← 55-85 cm →
JBL PROPOND SUMMER L	4.1 kg	41233
JBL PROPOND SUMMER L	8.2 kg	41234

### Feeding recommendation:

Feed once or twice a day as much as can be eaten in a few minutes.

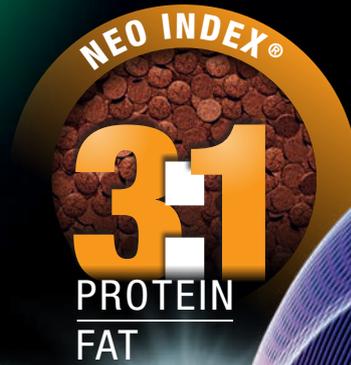


## NEO INDEX® - NATURAL ENERGY OPTIMIZED

# PRO POND®

# JBL

## AUTUMN



### AUTUMN FOOD FOR KOI

- KRILL AND HIGH-QUALITY FATS PROVIDE ENERGY
- NEO INDEX 3:1 TO PREPARE FOR THE WINTER

**28%** PROTEIN | **10%** FAT CONTENT | **2%** RAW FIBRE | **6%** CRUDE ASH

### JBL PROPOND AUTUMN

#### Autumn food for koi

(at 10-20 °C water temperature)

With the right protein/fat ratio of 3:1 in accordance with the NEO INDEX, taking temperature, function, animal size and age into account. With wheat, salmon, fish oil and krill for vigorous and healthy pond fish.

**Food size S** (3 mm) for fish 15-35 cm.

**Food size M** (6 mm) for fish 35-55 cm.

Floating wafers with 28 % protein, 10 % fat, 2 % crude fibre and 6 % crude ash.

Food wafers in resealable (air, water and lightproof) bag for the preservation of quality.

PRODUCT

CONTENT

ART. NO.

**WAFER SINKING S**



3 mm



← 15-35 cm →

JBL PROPOND AUTUMN S 1.5 kg 41237

JBL PROPOND AUTUMN S 3 kg 41238

JBL PROPOND AUTUMN S 6 kg 41239

**WAFER SINKING M**



6 mm



← 35-55 cm →

JBL PROPOND AUTUMN M 1.5 kg 41241

JBL PROPOND AUTUMN M 3 kg 41242

JBL PROPOND AUTUMN M 6 kg 41243

**Feeding recommendation:** Feed once or twice a day as much as can be eaten in a few minutes.



**NEO INDEX® - NATURAL ENERGY OPTIMIZED**



# PRO POND®

# JBL

# WINTER



## WINTER FOOD FOR KOI

- QUICK SINKING AND EASY TO DIGEST
- NEO INDEX 2:1 FOR THE HIBERNATION

**18%** PROTEIN | **11%** FAT CONTENT | **2%** RAW FIBRE | **6%** CRUDE ASH

## JBL PROPOND WINTER

### Winter food for koi

(at 5-15 °C water temperature)

With the right protein/fat ratio of 2:1 in accordance with the NEO INDEX, taking temperature, function, animal size and age into account. With wheat, salmon, fish oil, shrimp and corn for vigorous and healthy koi.

**Food size M** (6 mm) for fish 35-55 cm.

**Food size L** (9 mm) for fish 55-85 cm.

Sinking food pearls with 18 % protein, 11 % fat, 2 % crude fibre and 6 % crude ash.

Food pearls in resealable (air, water and lightproof) bag for the preservation of quality.

PRODUCT                      CONTENT                      ART. NO.

**PEARLS SINKING S**  3 mm | ← 15-35 cm →

JBL PROPOND WINTER S                      0,6 kg                      41340

JBL PROPOND WINTER S                      1,8 kg                      41341

**PEARLS SINKING M**  6 mm | ← 35-55 cm →

JBL PROPOND WINTER M                      1,8 kg                      41202

JBL PROPOND WINTER M                      3,6 kg                      41203

**PEARLS SINKING L**  9 mm | ← 55-85 cm →

JBL PROPOND WINTER L                      3,6 kg                      41207

**Feeding recommendation:** Feed once or twice a day as much as can be eaten in a few minutes.



## NEO INDEX® - NATURAL ENERGY OPTIMIZED

# FUNCTION FOOD



## THE INFLUENCE OF THE LIVING CONDITIONS

PROPOND®

SEASON  
FOOD

FUNCTION  
FOOD

SPECIAL  
FOOD

GOODY  
FOOD

The fish's living conditions are also incorporated into the NEO INDEX and factored in the different function foods. Thus the prebiotic ingredients of JBL PROPOND FITNESS provide ideal conditions for good health, even when the temperatures are varying wildly in times of seasonal change! The protein/fat ratio of 5:1 in the food helps your fish to compensate for their high metabolism without drawing on their energy reserves. This way they have enough energy to fight diseases and other issues.

Function food is always important when you have certain wishes: Your young koi also will grow without growth food (JBL PROPOND GROWTH), but they will grow more slowly and their body will not develop the beautiful shape it does when using this food. JBL PROPOND COLOR will bring out the colours of your fish and also make sure that the fish will retain their beautiful colours after purchase, because retailers generally feed colour enhancing food to show off their fish in their most beautiful colours. JBL PROPOND COLOR will also help younger fish (mostly two years old) to develop their colours properly when they are 3-5 years old. If you regularly feed your fish with PROPOND COLOR their colours will show up more intensely, even at an older age.





## FITNESS



NEO INDEX®

**5:1**

PROTEIN  
FAT

### FOOD FOR ACTIVE KOI

- PREBIOTICS FROM BETA-GLUCANS
- NEO INDEX 5:1 WITH MICRONUTRIENTS FROM ALGAE

<b>38%</b>	<b>8%</b>	<b>3%</b>	<b>9%</b>
PROTEIN	FAT CONTENT	RAW FIBRE	CRUDE ASH

### JBL PROPOND FITNESS

#### Fitness food for koi

(at 15-25 °C water temperature)  
With the right protein/fat ratio of 5:1 in accordance with the NEO INDEX, taking temperature, function, animal size and age into account. With salmon meal, spinach and spirulina for a nourishing diet.

**Food size S** (3 mm) for fish 15-35 cm.

**Food size M** (6 mm) for fish 35-55 cm.

**Food size L** (9 mm) for fish 55-85 cm.

Floating wafers with 38 % protein, 8 % fat, 3 % crude fibre and 9 % crude ash.

Fitness wafers in resealable (air, water and lightproof) bag for the preservation of quality.

PRODUCT CONTENT ART. NO.

PRODUCT	CONTENT	ART. NO.
<b>WAFER FLOATING S</b>	3 mm	15-35 cm
JBL PROPOND FITNESS S	0.42 kg	41318
JBL PROPOND FITNESS S	1.3 kg	41319
JBL PROPOND FITNESS S	2.5 kg	41320
JBL PROPOND FITNESS S	5 kg	41321

PRODUCT	CONTENT	ART. NO.
<b>WAFER FLOATING M</b>	6 mm	35-55 cm
JBL PROPOND FITNESS M	1.3 kg	41323
JBL PROPOND FITNESS M	2.5 kg	41324
JBL PROPOND FITNESS M	5 kg	41325

PRODUCT	CONTENT	ART. NO.
<b>WAFER FLOATING L</b>	9 mm	55-85 cm
JBL PROPOND FITNESS L	2.5 kg	41328
JBL PROPOND FITNESS L	5 kg	41329

**Feeding recommendation:** Feed once or twice a day as much as can be eaten in a few minutes.



SUMMER

25°C

15°C

WATER TEMPERATURE

WINTER

SPRING

AUTUMN

NEO INDEX® - NATURAL ENERGY OPTIMIZED

## GROWTH



### GROWTH FOOD FOR KOI

■ ESSENTIAL AMINO ACIDS, OMEGA-3 AND OMEGA-6 FATTY ACIDS

■ NEO INDEX 6:1(XS) 5:1 FOR OPTIMUM GROWTH

**52%** PROTEIN | **9%** FAT CONTENT | **2%** RAW FIBRE | **10%** CRUDE ASH

**46%** PROTEIN | **10%** FAT CONTENT | **2%** RAW FIBRE | **10%** CRUDE ASH

### JBL PROPOND GROWTH

#### Growth food for koi

(at 15-25 °C water temperature)

With the right protein/fat ratio of 5:1 (XS 6:1) in accordance with the NEO INDEX, taking temperature, function, animal size and age into account. With salmon, shrimps, spirulina, fish oil for vigorous and healthy growth.

**Food size XS** (1.5 mm) for fish 5-15 cm.

**Food size S** (3 mm) for fish 15-35 cm.

**Food size M** (6 mm) for fish 35-55 cm.

**Food size L** (9 mm) for fish 55-85 cm.

Floating pearls with 46 % (XS 52 %) protein, 10 % (XS 9 %) fat, 2 % (XS 2 %) crude fibre and 10 % (XS 10 %) crude ash.

Food pearls in resealable (air, water and lightproof) bag for the preservation of quality.

PRODUCT CONTENT ART. NO.

<b>PEARLS XS</b> FLOATING	 1,5 mm	 5-15 cm
<b>JBL PROPOND GROWTH XS</b>	1.3 kg	41289

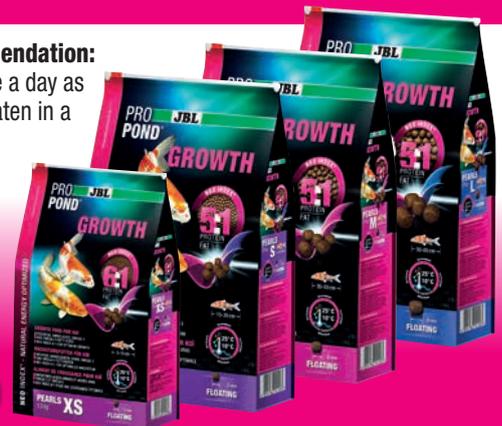
<b>PEARLS S</b> FLOATING	 3 mm	 15-35 cm
<b>JBL PROPOND GROWTH S</b>	1.3 kg	41293
<b>JBL PROPOND GROWTH S</b>	2.5 kg	41294
<b>JBL PROPOND GROWTH S</b>	5 kg	41295

<b>PEARLS M</b> FLOATING	 6 mm	 35-55 cm
<b>JBL PROPOND GROWTH M</b>	2.5 kg	41297
<b>JBL PROPOND GROWTH M</b>	5 kg	41298

<b>PEARLS L</b> FLOATING	 9 mm	 55-85 cm
<b>JBL PROPOND GROWTH L</b>	2.5 kg	41301
<b>JBL PROPOND GROWTH L</b>	5 kg	41302

#### Feeding recommendation:

Feed once or twice a day as much as can be eaten in a few minutes.



NEO INDEX® - NATURAL ENERGY OPTIMIZED

# PRO POND®

# JBL

## SPECIAL FOOD



PROPOND®

### THE INFLUENCE OF THE FISH SPECIES

SEASON  
FOOD

FUNCTION  
FOOD

SPECIAL  
FOOD

GOODY  
FOOD

Along with size, age, season and water temperature the fish species also plays an important role, of course. Koi and goldfish are in their nutritional and physiological aspects very close. Koi have a higher demand on the food since they often need to develop more and brighter colours. Sturgeons are very special fish. Their body shape indicates their way of life: They swim near the bottom and use their barbels (chemosensor organ) to feel for small invertebrates, which they would eat in the wild. JBL PROPOND STERLET has been adapted to suit these eating habits, both in its composition (increased share of invertebrates) and in its sinking behaviour. Even if sturgeons can learn to feed at the water surface, this feeding behaviour doesn't represent their natural behaviour and harbours the risk of excessive air swallowing. Sturgeons should always be fed with their own food because it has a dedicated composition and the sturgeons could hurt the koi's mucous membrane with their bone plates when fighting for their food. In practice you can feed your goldfish and koi on the surface in one corner of the pond and your sturgeons with sinking sturgeon food at the other end.

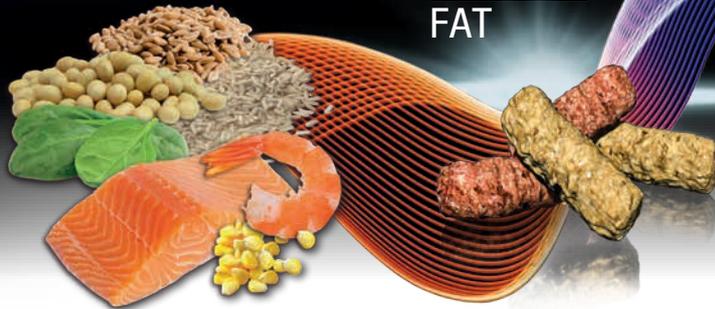




# PRO POND®

# JBL

## GOLDFISH



### FOOD FOR GOLDFISH AND POND FISH

- BALANCED DIET WITH PLANT CONTENT
- ALL SEASON NEO INDEX 3:1

**20%** PROTEIN | **6%** FAT CONTENT | **3%** RAW FIBRE | **9%** CRUDE ASH

### JBL PROPOND GOLDFISH

#### Food sticks for goldfish

(at 10-30 °C water temperature)

With the right protein/fat ratio of 3:1 in accordance with the NEO INDEX, taking temperature, function, animal size and age into account. With wheat, salmon, shrimp and spinach for vigorous and healthy goldfish.

**Food size S** (8 mm) for fish 5-15 cm.

**Food size M** (14 mm) for fish 15-35 cm.

Floating sticks with 20 % protein, 6 % fat, 3 % crude fibre and 9 % crude ash.

Food sticks in resealable (air, water and lightproof) bag for the preservation of quality.

PRODUCT CONTENT ART. NO. UP

#### STICKS FLOATING S



8 mm



5-15 cm

JBL PROPOND GOLDFISH S	0.4 kg	41262
JBL PROPOND GOLDFISH S	0.8 kg	41263
JBL PROPOND GOLDFISH S	1.7 kg	41264

#### STICKS FLOATING M



14 mm



15-35 cm

JBL PROPOND GOLDFISH M	0.4 kg	41266
JBL PROPOND GOLDFISH M	0.8 kg	41267
JBL PROPOND GOLDFISH M	1.7 kg	41268

**Feeding recommendation:** Feed once or twice a day as much as can be eaten in a few minutes.



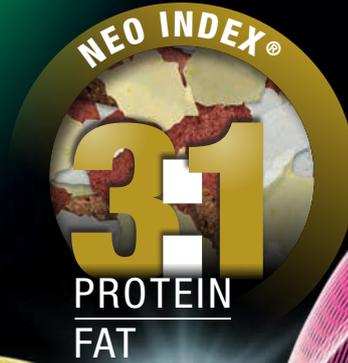
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# PRO POND®

# JBL

# VARIO



## FOOD MIXTURE FOR ALL POND FISH

- POND FOOD MENU WITH FLAKES AND STICKS
- ALL SEASON NEO INDEX 3:1

**23%** PROTEIN | **7%** FAT CONTENT | **4%** RAW FIBRE | **11%** CRUDE ASH

PRODUCT	CONTENT	ART. NO.
<b>VARIOMIX M</b> FLOATING	5-20 mm	10-35 cm
JBL PROPOND VARIO M	0.13 kg	41273
JBL PROPOND VARIO M	0.72 kg	41274

## JBL PROPOND VARIO

### Food mix for all pond fish

(at 10-30 °C water temperature)

With the right protein/fat ratio of 3:1 in accordance with the NEO INDEX, taking temperature, function, animal size and age into account. With wheat, gammarus, salmon, shrimp, and seaweed for vigorous and healthy pond fish.

**Food size M** (5-20 mm) for fish 10-35 cm.

Floating sticks & flakes with 23 % protein, 7 % fat, 4 % crude fibre and 11 % crude ash.

Complete food in resealable (air, water and lightproof) bag for the preservation of quality.

**Feeding recommendation:** Feed once or twice a day as much as can be eaten in a few minutes.



## NEO INDEX® - NATURAL ENERGY OPTIMIZED



## FLAKES



### FLAKE FOOD FOR ALL POND FISH

- BALANCED BASIC DIET FOR LIVELY FISH
- ALL SEASON NEO INDEX 3:1

<b>12%</b> PROTEIN	<b>4%</b> FAT CONTENT	<b>1%</b> RAW FIBRE	<b>2%</b> CRUDE ASH
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PRODUCT	CONTENT	ART. NO.
<b>FLAKES M</b> FLOATING	5-20 mm ← 10-35 cm →	
JBL PROPOND FLAKES M	0.13 kg	41270
JBL PROPOND FLAKES M	0.72 kg	41271

### JBL PROPOND FLAKES

#### Flake food for all pond fish

(at 10-30 °C water temperature)

With the right protein/fat ratio of 3:1 in accordance with the NEO INDEX, taking temperature, function, animal size and age into account. With wheat, gammarus, salmon, shrimp, and seaweed for vigorous and healthy pond fish.

**Food size M** (5-20 mm) for fish 10-35 cm.

Floating flakes with 12 % protein, 4 % fat, 1 % crude fibre and 2 % crude ash.

Complete food in resealable (air, water and lightproof) bag for the preservation of quality.

**Feeding recommendation:** Feed once or twice a day as much as can be eaten in a few minutes.



**NEO INDEX® - NATURAL ENERGY OPTIMIZED**

# PRO POND®

# JBL

## GOODY FOOD



### GOODIES FOR YOUR KOI

Even in the wild fish get treats. Sometimes a fruit falls into the water, sometimes an insect lands on the water surface. With JBL goodies you can treat your fish

to a special meal, which also offers another advantage. Your fish learn quite easily to eat out of your hand. Should you need to catch a specific fish for an examination or treatment, you'll be able to do this simply and easily thanks to the hand feeding. The ingredients of the JBL PRO POND goodies have been complemented so that these foods can also be fed as complete feed (which you couldn't do with pure silkworm or shrimp food).

PRO POND®

SEASON  
FOOD

FUNCTION  
FOOD

SPECIAL  
FOOD

GOODY  
FOOD



## SHRIMP



### SILKWORM GOODY FOR KOI

- ESSENTIAL VITAMINS AND MANY PROTEINS
- GOODY WITH NEO INDEX 5:1



PRODUCT	CONTENT	ART. NO.
<b>EXTRUDAT M</b> FLOATING	15 mm ← 15-85 cm →	
<b>JBL PROPOND SILKWORMS M</b>	1 kg	41331

### JBL PROPOND SILKWORMS

#### Silkworm snacks for koi

(at 15-25 °C water temperature)

With the right protein/fat ratio of 4:1 in accordance with the NEO INDEX, taking temperature, function, animal size and age into account. Silkworms with salmon, gammarus, spirulina and seaweed for a wholesome diet.

**Food size M** (15 mm) for fish 35-55 cm.

Floating extrudate with 44 % protein, 9 % fat, 2 % crude fibre and 10 % crude ash.

1 kg silkworm extrudate in resealable (air, water and lightproof) bag for the preservation of quality.

**Feeding recommendation:** Feed once or twice a day as much as can be eaten in a few minutes.



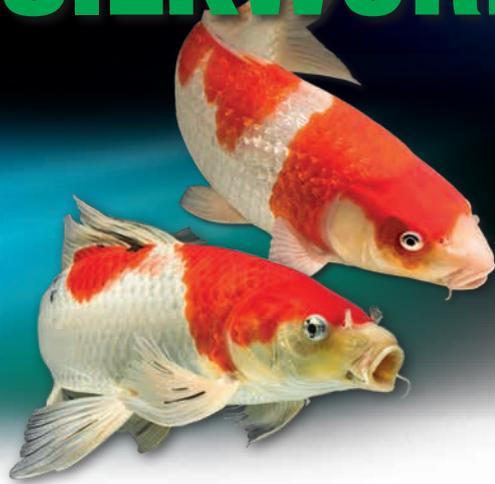
**NEO INDEX® - NATURAL ENERGY OPTIMIZED**



# PRO POND®

# JBL

## SILKWORMS



### SILKWORM GOODY FOR KOI

- ESSENTIAL VITAMINS AND MANY PROTEINS
- GOODY WITH NEO INDEX 5:1

**44%**  
PROTEIN

**9%**  
FAT CONTENT

**2%**  
RAW FIBRE

**10%**  
CRUDE ASH

PRODUCT	CONTENT	ART. NO.
<b>EXTRUDAT M</b> FLOATING	15 mm ← 15-85 cm →	
<b>JBL PROPOND SILKWORMS M</b>	1 kg	41331

### JBL PROPOND SILKWORMS

#### Silkworm snacks for koi

(at 15-25 °C water temperature)

With the right protein/fat ratio of 4:1 in accordance with the NEO INDEX, taking temperature, function, animal size and age into account. Silkworms with salmon, gammarus, spirulina and seaweed for a wholesome diet.

**Food size M** (15 mm) for fish 35-55 cm.

Floating extrudate with 44 % protein, 9 % fat, 2 % crude fibre and 10 % crude ash.

1 kg silkworm extrudate in resealable (air, water and lightproof) bag for the preservation of quality.

**Feeding recommendation:** Feed once or twice a day as much as can be eaten in a few minutes.



## NEO INDEX® - NATURAL ENERGY OPTIMIZED





**JBL**

# JBL PRODUCTS



**VORSPRUNG  
DURCH FORSCHUNG**  
AHEAD THROUGH RESEARCH





**JBL pH Test 3.0-10.0**

**Quick test to determine the acidity from pH 3-10**

- Controls the water values simply and reliably. Determines the ideal pH value for fresh and saltwater
- Quick test: fill plastic cuvette with sample water, add reagent, read value of the sample off colour chart
- When to use: when setting up a new aquarium: daily for one week, afterwards weekly
- Online Laboratory: regular control for a healthy aquarium with conditions close to nature

Art. no.  
**25342**  
**25343**

For  
80 tests  
Refill



**JBL pH Test 7.4-9.0**

**Quick test to determine the acidity**

- Controls the water values in aquariums simply and reliably. Determines the ideal pH value for saltwater aquariums
- Laboratory comparator system to compensate the inherent water colouring: read sample water and reagent in the holder off the colour chart
- When to use: for setting up a new aquarium: daily for one week, afterwards weekly
- Online Laboratory: regular control for a healthy aquarium with conditions close to nature.

Art. no.  
**25348**  
**25349**

For  
80 tests  
Refill



**JBL GH Test**

**Quick test to determine the general hardness**

- Simple and reliable control of water values. Determines the ideal general hardness for freshwater aquariums.
- Colour change test: add the reagent drop by drop until the colour changes from red to green. Number of drops = general hardness
- When to use: for setting up a new aquarium: once a week
- Online Laboratory: regular control for a healthy aquarium with conditions close to nature.
- Package contents: 1 quick test, GH Test. Incl. reagent and plastic cuvette. Refill reagent available separately

Art. no.  
**25350**  
**25351**

Refill



**JBL KH Test**

**Quick test for the determination of the carbonate hardness**

- Simple and reliable control of water values. Determination of the optimal carbonate hardness for fresh and saltwater aquariums
- Colour change test: add reagent drop by drop until colour changes from blue to yellow. Number of drops = carbonate hardness
- When to use: when setting up a new aquarium: once a week
- Online Laboratory: regular control for a healthy aquarium with conditions close to nature.
- Package contents: 1 quick test, KH Test. Incl. reagent and plastic cuvette. Refill reagent available separately

Art. no.  
**25360**  
**25361**

Refill



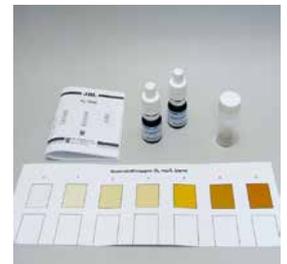
**JBL Oxygen Test O<sub>2</sub>**

**Quick test to determine the oxygen content**

- Simple and reliable control of water values. Determines the ideal oxygen content in aquariums
- Quick test for monitoring the aeration: add reagents, read sample value off colour chart
- When to use: once a week in newly set up aquariums
- Online Laboratory: regular control for a healthy aquarium with conditions close to nature
- Package contents: 1 quick test, Oxygen Test O<sub>2</sub> for approx. 50 measurements, incl. reagents, glass vial and colour chart

Art. no.  
**25406**  
**25407**

For  
50 tests  
Refill



**JBL Copper Test Cu**

**Quick test to determine the copper content**

- Easy and reliable control of water values. Determines the copper value and monitors heavy metals in the aquarium
- Laboratory comparator system to compensate the inherent water colouring: colour chart to read off the sample water and reagent in the holder
- To use: for setting up a new aquarium: 1 x after setting up or in case of fish or shrimp mortality.
- Online Laboratory: regular control for a healthy aquarium with conditions close to nature.
- Package contents: 1 quick test, Copper test Cu. contents for approx. 50 tests

Art. no.  
**25404**  
**25405**

For  
50 tests  
Refill



**JBL Ammonium Test NH<sub>4</sub>**

**Quick test for the determination of ammonium/ammonia**

- Controls the water values in aquariums simply and reliably. Determination of the ammonium/ammonia values in aquariums
- Laboratory comparator system to compensate the inherent water colouring: read sample water and reagent in the holder off the colour chart
- When to use: for setting up a new freshwater aquarium: 10 x daily. Initial setup with marine water: 1 x per week
- Online Laboratory: regular control for a healthy aquarium with conditions close to nature
- Package contents: 1 quick test, Ammonium Test NH<sub>4</sub> for approx. 50 tests

Art. no.  
**25365**  
**25366**

For  
50 tests  
Refill





### JBL Nitrite Test NO<sub>2</sub>

#### Quick test for the determination of the nitrite content

- Simple and reliable control of the water values. Determination of the nitrite value for the filter control in the aquarium
- Labor-Komparatorsystem zum Ausgleich von Wassereigenfärbung: Probewasser und Reagens in Halter auf der Farbkarte ablesen
- When to use: for setting up a new freshwater aquarium: daily for 3 weeks. For initial setup with marine water: once a week.
- Online Laboratory: regular control for a healthy aquarium with conditions close to nature.
- Package contents: 1 quick test, Nitrite Test NO2 for approx. 50 tests

Art. no.  
**25370**  
**25371**

For  
50 tests  
Refill



### JBL Nitrate Test NO<sub>3</sub>

#### Quick test to determine the nitrate content

- Simple and reliable control of the water values. Determines the ideal nitrate value in aquariums
- Laboratory comparator system to compensate the inherent water colouring: read sample water and reagent in the holder off the colour chart
- When to use: for setting up a new freshwater aquarium: once a week. For initial setup with marine water: once a week.
- Online Laboratory: regular control for a healthy aquarium with conditions close to nature
- Package contents: 1 quick test, Nitrate Test NO3 for approx. 50 tests

Art. no.  
**25375**  
**25376**

For  
50 tests  
Refill



### JBL Phosphate Test sensitive

#### Quick test to determine the phosphate content

- Controls the water values simply and reliably. Determines the phosphate value to control algae in aquariums
- Laboratory comparator system to compensate the inherent water colouring: read sample water and reagent in the holder off the colour chart
- To use: when setting up a new freshwater aquarium: once a week. in case of green algae problems
- Online Laboratory: regular control for a healthy aquarium with conditions close to nature.
- Package contents: 1 quick test PO4 for approx. 50 tests

Art. no.  
**25408**  
**25409**

For  
50 tests  
Refill



### JBL EasyTest 6in1

#### Test strips for quick aquarium water testing

- Test strips for testing 6 important water values in 1 minute: quick test for aquarium, pond, well and tap water
- Easy to use: dip into the water for 2-3 seconds, take it off, drain off in a horizontal position. Compare after 1 minute
- Determination of following values; chlorine, acidity (pH), general hardness (GH), nitrite (NO<sub>2</sub>), nitrate (NO<sub>3</sub>) and carbonate hardness (KH)
- Quick test to outline the water conditions – orientation test in 1 minute
- Package contents: 1 x test strips EasyTest 6 in 1 with colour scale. Contents: 50 test strips.

Art. no.  
**25339**

For  
50 tests



### JBL ProScan

#### Water test with analysis via smartphone

- Water analysis and diagnosis via smartphone: easy control of the values. GH, KH, pH, NO<sub>2</sub>, NO<sub>3</sub>, Cl and CO<sub>2</sub> calculation
- The new generation of analysis: download app, insert strip, position on colour chart, scan, read values
- Fast diagnosis – precise results: test value results are additionally evaluated (good/medium/poor)
- Compatible with iPhone and iPad: iOS 5.0 or higher, Android 4.0 or higher and a camera with autofocus needed

Art. no.  
**25420**

Content  
24 Tests



### JBL ProScan Recharge

#### Refill analysis strips for analysis via smartphone

- Water analysis and diagnosis via smartphone: easy control of the values. GH, KH, pH, NO<sub>2</sub>, NO<sub>3</sub>, Cl and CO<sub>2</sub> calculation
- The new generation of analysis: download app, insert test strip, position strip on colour chart, scan, read values
- Fast diagnosis – precise results: test value results are additionally evaluated (good/medium/poor)
- Compatible with iPhone and iPad: iOS 5.0 or higher, Android 4.0 or higher and a camera with autofocus needed
- Contents: 1 pack ProScan Recharge with 24 water analysis strips

Art. no.  
**25421**

Content  
24 Tests



### JBL ProScape Cleaning Glove

#### Aquarium glove for cleaning

- Removal of algae growth and deposits: aquarium glove with metal threads for the cleaning of glass panes and objects
- Easy handling: put on glove, clean by rubbing on the desired area
- Cleans all corners, technical items and pumps perfectly
- Easy removal of algae
- Care of glove: rinse in lukewarm water, dry in sun light

Art. no.  
**61379**



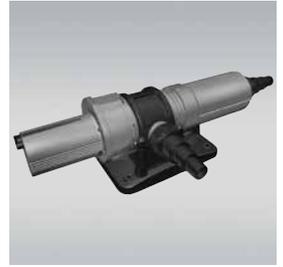


**JBL ProCristal UV-C 18W**  
**Clarifier for the quick elimination of water clouding**

- Cristal-clear and healthy water: quick and efficient elimination of greenish and whitish cloudiness
- Space-saving assembly: connect to external filter. Inlet and outlet are positioned for practical use
- Germ-killing UVC radiation, reduces risk of infection
- Safety switch: switches off automatically when device is opened, 2- glass-cylinder design
- TÜV tested, sturdy, UV-resistant casing

Art. no. **60367**  
 Performance 18 W

Length 46,5 cm



**JBL ProCristal UV-C 36W**  
**Clarifier for the quick elimination of water clouding**

- Cristal-clear and healthy water: quick and efficient elimination of greenish and whitish cloudiness
- Space-saving assembly: connect to external filter. Inlet and outlet are positioned for practical use
- Germ-killing UVC radiation, reduces risk of infection
- TÜV tested, safety switch: switches off automatically, when device is opened, 2- glass-cylinder design
- TÜV tested, safety switch: switches off automatically, when device is opened. Stable, UV-resistant casing

Art. no. **60368**  
 Performance 36 W

Length 66,5 cm



**JBL ProCristal UV-C QuickConnect**  
**Connects two JBL ProCristal UV-C water clarifiers**

- Can simply be screwed on inlet or outlet of a UV-C water clarifier to connect it with a second device
- Doubles the performance by connecting two devices
- The connection of more than two devices is possible. Only the pump output needs to fit
- Threaded connection: 1 1/2" connection. Also fits other systems.
- Contains 1 connection piece with 2 seals

Art. no. **60369**  
 For UV-C



**JBL ProCristal UV-C ElbowConnect**  
**90° elbow for JBL ProCristal UV-C devices**

- 90° elbow for individual mounting
- It is possible to connect several elbows to each other
- Made of robust, black PP plastic material
- Standard thread 1 1/2"
- 90° elbow, 1 1/2", with seal

Art. no. **60364**



**JBL Replacement lamp UV-C**  
**Replacement lamp for water clarifier AquaCristal**

- UV-C water clarifier for the quick and efficient elimination of greenish and whitish cloudiness in aquariums
- No effect on cleansing bacteria and water parameters
- Germ-killing UVC radiation of 255 nm, reduces risk of infection
- Note: UV-C lamps should never be touched with bare fingers because this reduces the service life
- Suitable for AquaCristal UV-C and other UV-C devices

Art. no. **60305** 5 W  
**60306** 9 W  
**60307** 11 W  
**60308** 18 W  
**60361** 24 W  
**60309** 36 W  
**60362** 55 W



**JBL Aeras Micro Ball L**  
**Air stone for fine air bubbles**

- Air pump accessory for aquariums: air stone made of quartz sand mixture with extra-fine pores – particularly suitable for the pond aeration
- Simply connect air stone to the air pump (not included), place inside the pond or aquarium
- No extra weighting: own weight of the air stone keeps it on the ground
- For fresh and saltwater aquariums: ball shaped air stone
- Package contents: 1 air stone, 40 mm diameter, Aeras Micro Ball L

Art. no. **61491**  
 Ø 40 mm



**JBL Fine Filter Foam**  
**Reusable foam to combat all kind of water cloudiness**

- Quick, one-off elimination of micro-fine cloudiness in freshwater and saltwater aquariums: reusable foam
- Easy to use: cut the 2.5 cm thick foam to the size you need. Layer into the filter last.
- Crystal-clear water: filters off floating algae, micro-fine clouding and all particles of 1/1000 mm upwards
- No release of harmful substances – water neutral fine foam
- Contents: 1 reusable foam filter mat for aquariums

Art. no. **62562** 2,5 cm  
**62561** 5 cm  
**62563** 10 cm



## Accessories



### JBL Coarse Filter Foam

Reusable filter foam to combat all kind of water cloudiness

- Quick, one-off elimination of micro-fine cloudiness in freshwater and saltwater aquariums: reusable foam
- Easy to use: cut the 2.5 cm thick foam to the size you need. Layer into the filter last.
- Crystal-clear water: filters off floating algae, micro-fine clouding and all particles of 1/1000 mm upwards
- No release of harmful substances –water neutral fine foam
- Contents: 1 reusable foam filter mat for aquariums

Art. no.	Height
<b>62565</b>	2,5 cm
<b>62560</b>	5 cm
<b>62566</b>	10 cm



### JBL Silicone hose

Semi-transparent air hose, rolled on reel

- Aquarium hose for various purposes such as air supply etc.
- Semi-transparent hose made of silicone-like material, free of heavy metals
- Extremely long service life and very flexible
- Diameter: 4/6 mm (internal and external diameter)
- Contents: 1 plastic reel with 100 m rolled up hose (no kinks). Semi-transparent colour.

Art. no.	∅	Length
<b>61119</b>	4/6	100 m

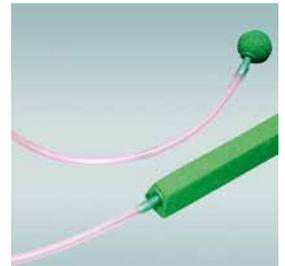


### JBL Silicon tubing

Silicone hose with 2.5 m length and 4/6 mm diameter

- Flexible silicone hose for air pumps, with a diameter of 4/6 mm
- Free of heavy metals.
- Silicone-like material
- Unsuitable for CO2.
- Package contents: 1 silicone hose. Length: 2.5 m, ∅ 4/6 mm

Art. no.	∅	Length
<b>61085</b>	4/6 mm	2,5 m



### JBL HARU Universal 200 ml

Universal adhesive for aquariums, terrariums and ponds

- For the bonding of decorations, panes, technical items, leaks and anything else
- Bonds above and under water. Non-toxic to animals and plants.
- Bonds glass, metal (aluminium), wood, plastic materials (except PE, PP), mineral materials etc.
- Also glues mosses and ferns to decorations
- 200 ml black universal adhesive with resealable compressed air cartridge

Art. no.
<b>61398</b>



## food ProPond > seasons > winter



### JBL ProPond Winter S

Winter food for small koi

- Right protein/fat ratio 2:1 in accord. with NEO index which takes temperature, function, animal size, age into account
- With wheat, salmon, fish oil, shrimp and corn for vigorous and healthy koi (at 5 -15 °C water temperature)
- Food size S (3 mm) for fish 15-35 cm.
- Sinking food pearls with 18 % protein, 11 % fat, 2 % crude fibre and 6 % crude ash
- Food pearls in resealable bag (air, water and lightproof) for the preservation of quality

Art. no.	Content	Weight
<b>41340</b>	1 l	0,6 kg
<b>41341</b>	3 l	1,8 kg

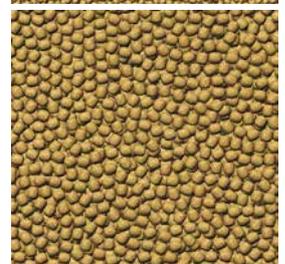


### JBL ProPond Winter M

Winter food for medium-sized koi

- Right protein/fat ratio 2:1 in accord. with NEO index which takes temperature, function, animal size, age into account
- With wheat, salmon, fish oil, shrimp and corn for vigorous and healthy koi (at 5 -15 °C water temperature)
- Food size M (6 mm) for fish 35-55 cm.
- Sinking food pearls with 18 % protein, 11 % fat, 2 % crude fibre and 6 % crude ash
- Food pearls in resealable bag (air, water and lightproof) for the preservation of quality

Art. no.	Content	Weight
<b>41202</b>	3 l	1,8 kg
<b>41203</b>	6 l	3,6 kg

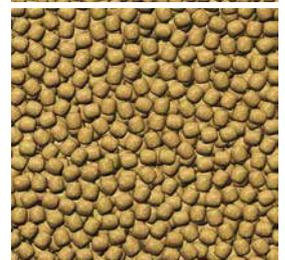


### JBL ProPond Winter L

Winter food for large koi

- Right protein/fat ratio 2:1 in accord. with NEO index which takes temperature, function, animal size, age into account
- With wheat, salmon, fish oil, shrimp and corn for vigorous and healthy koi (at 5 -15 °C water temperature)
- Food size L (9 mm) for fish 55-85 cm.
- Sinking food pearls with 18 % protein, 11 % fat, 2 % crude fibre and 6 % crude ash
- Food pearls in resealable bag (air, water and lightproof) for the preservation of quality

Art. no.	Content	Weight
<b>41207</b>	6 l	3,6 kg



food ProPond > seasons > spring



**JBL ProPond Spring S**

**Spring food for small koi**

- Right protein/fat ratio 3:1 in accord. with NEO index which takes temperature, function, animal size, age into account
- With salmon, soya, shrimp, wheat, spinach and spirulina for vigorous and healthy koi (at 10-20 °C water temperature)
- Food size S (3 mm) for fish 15-35 cm.
- Floating food wafers with 25 % protein, 8 % fat, 3 % crude fibre and 8 % crude ash.
- Food wafers in resealable bag (air, water and lightproof) for the preservation of quality.

Art. no.	Content	Weight
<b>41209</b>	3 l	1,1 kg
<b>41210</b>	6 l	2,1 kg
<b>41211</b>	12 l	4,2 kg
<b>41212</b>	24 l	8,4 kg



**JBL ProPond Spring M**

**Spring food for medium-sized koi**

- Right protein/fat ratio 3:1 in accord. with NEO index which takes temperature, function, animal size, age into account
- With salmon, soya, shrimp, wheat, spinach and spirulina for vigorous and healthy koi (at 10-20 °C water temperature)
- Food size M (6 mm) for fish 35-55 cm.
- Floating food wafers with 25 % protein, 8 % fat, 3 % crude fibre and 8 % crude ash
- Food wafers in resealable bag (air, water and lightproof) for the preservation of quality

Art. no.	Content	Weight
<b>41215</b>	3 l	1,1 kg
<b>41216</b>	6 l	2,1 kg
<b>41217</b>	12 l	4,2 kg
<b>41218</b>	24 l	8,4 kg



food ProPond > seasons > summer



**JBL ProPond Summer S**

**Summer food for small koi**

- Right protein/fat ratio 4:1 in accord. with NEO index which takes temperature, function, animal size, age into account
- With corn, salmon, soya, shrimp, gammarus and spirulina for vigorous and healthy koi (at 20-30 °C water temperature)
- Food size S (3 mm) for fish 15-35 cm.
- Floating food pearls with 28 % protein, 7 % fat, 3 % crude fibre and 8 % crude ash
- Food pearls in resealable bag (air, water and lightproof) for the preservation of quality

Art. no.	Content	Weight
<b>41222</b>	1 l	0,34 kg
<b>41223</b>	3 l	1 kg
<b>41224</b>	6 l	2,0 kg
<b>41225</b>	12 l	4,1 kg
<b>41226</b>	24 l	8,2 kg

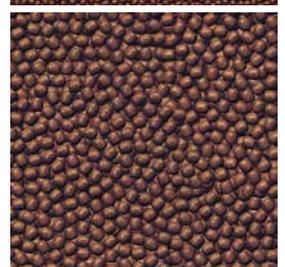


**JBL ProPond Summer M**

**Summer food for medium-sized koi**

- Right protein/fat ratio 4:1 in accord. with NEO index which takes temperature, function, animal size, age into account
- With corn, salmon, soya, shrimp, gammarus and spirulina for vigorous and healthy koi (at 20-30 °C water temperature)
- Food size M (6 mm) for fish 35-55 cm.
- Floating food pearls with 28 % protein, 7 % fat, 3 % crude fibre and 8 % crude ash
- Food pearls in resealable bag (air, water and lightproof) for the preservation of quality

Art. no.	Content	Weight
<b>41228</b>	3 l	1,0 kg
<b>41229</b>	6 l	2,0 kg
<b>41230</b>	12 l	4,1 kg
<b>41231</b>	24 l	8,2 kg

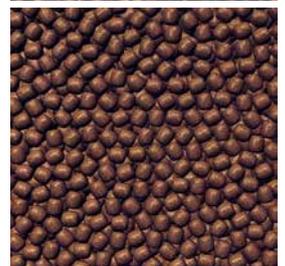


**JBL ProPond Summer L**

**Summer food for large koi**

- Right protein/fat ratio 4:1 in accord. with NEO index which takes temperature, function, animal size, age into account
- With corn, salmon, soya, shrimp, gammarus and spirulina for vigorous and healthy koi (at 20-30 °C water temperature)
- Food size L (9 mm) for fish 55-85 cm.
- Floating food pearls with 28 % protein, 7 % fat, 3 % crude fibre and 8 % crude ash
- Food pearls in resealable bag (air, water and lightproof) for the preservation of quality

Art. no.	Content	Weight
<b>41233</b>	12 l	4,1 kg
<b>41234</b>	24 l	8,2 kg



food ProPond > seasons > autumn



**JBL ProPond Autumn S**

**Autumn food for small koi**

- Right protein/fat ratio 3:1 in accord. with NEO index which takes temperature, function, animal size, age into account
- With wheat, salmon, fish oil and krill for vigorous and healthy pond fish (at 10-20 °C water temperature)
- Food size S (3 mm) for fish 15-35 cm.
- Sinking wafers with 28 % protein, 10 % fat, 2 % crude fibre and 6 % crude ash
- Food wafers in resealable bag (air, water and lightproof) for the preservation of quality

Art. no.	Content	Weight
<b>41237</b>	3 l	1,5 kg
<b>41238</b>	6 l	3,0 kg
<b>41239</b>	12 l	6,0 kg



**JBL ProPond Autumn M**

**Autumn food for medium-sized koi**

- Right protein/fat ratio 3:1 in accord. with NEO index which takes temperature, function, animal size, age into account
- With wheat, salmon, fish oil and krill for vigorous and healthy pond fish (at 10-20 °C water temperature)
- Food size M (6 mm) for fish 35-55 cm.
- Sinking wafers with 28 % protein, 10 % fat, 2 % crude fibre and 6 % crude ash
- Food wafers in resealable bag (air, water and lightproof) to preserve the quality

Art. no.	Content	Weight
<b>41241</b>	3 l	1,5 kg
<b>41242</b>	6 l	3,0 kg
<b>41243</b>	12 l	6,0 kg



food ProPond > seasons > all-season

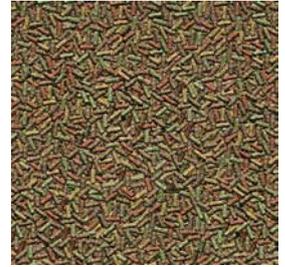


**JBL ProPond All Seasons S**

**All-season food for small koi & pond fish**

- Right protein/fat ratio 3:1 in accord. with NEO index which takes temperature, function, animal size, age into account
- With wheat, salmon, spinach and spirulina for vigorous and healthy pond fish (at 10-25 °C water temperature)
- Food size S (8 mm) for fish 15-35 cm.
- Floating sticks with 24 % protein, 7 % fat, 4 % crude fibre and 8 % crude ash
- Food sticks in resealable bag (air, water and lightproof) for the preservation of quality

Art. no.	Content	Weight
41246	1 l	0,18 kg
41247	3 l	0,5 kg
41248	6 l	1,1 kg
41249	12 l	2,2 kg
41250	24 l	4,3 kg
41251	32 l	5,8 kg



**JBL ProPond All Seasons M**

**All-season food for koi and pond fish**

- Right protein/fat ratio 3:1 in accord. with NEO index which takes temperature, function, animal size, age into account
- With wheat, salmon, spinach and spirulina for vigorous and healthy pond fish (at 10-25 °C water temperature)
- Food size M (14 mm) for fish 35-55 cm.
- Floating sticks with 24 % protein, 7 % fat, 4 % crude fibre and 8 % crude ash
- Food sticks in resealable bag (air, water and lightproof) for the preservation of quality

Art. no.	Content	Weight
41254	3 l	0,5 kg
41255	6 l	1,1 kg
41256	12 l	2,2 kg
41257	24 l	4,3 kg
41258	32 l	5,8 kg



food ProPond > species > goldfish



**JBL ProPond Goldfish S**

**Food sticks for small goldfish**

- Right protein/fat ratio 3:1 in accord. with NEO index which takes temperature, function, animal size, age into account
- With wheat, salmon, shrimp and spinach for vigorous and healthy goldfish (at 10-30 °C water temperature)
- Food size S (8 mm) for fish 5-15 cm.
- Floating sticks with 20 % protein, 6 % fat, 3 % crude fibre and 9 % crude ash
- Food sticks in resealable bag (air, water and lightproof) for the preservation of quality

Art. no.	Content	Weight
41262	3 l	0,4 kg
41263	6 l	0,8 kg
41264	12 l	1,7 kg



**JBL ProPond Goldfish M**

**Food sticks for medium-sized to large goldfish**

- Right protein/fat ratio 3:1 in accord. with NEO index which takes temperature, function, animal size, age into account
- With wheat, salmon, shrimp and spinach for vigorous and healthy goldfish (at 10-30 °C water temperature)
- Food size M (14 mm) for fish 15-35 cm.
- Floating sticks with 20 % protein, 6 % fat, 3 % crude fibre and 9 % crude ash
- Food sticks in resealable bag (air, water and lightproof) for the preservation of quality

Art. no.	Content	Weight
41266	3 l	0,4 kg
41267	6 l	0,8 kg
41268	12 l	1,7 kg



food ProPond > species > sterlet



**JBL ProPond Sterlet S**

**Complete food for small sterlets**

- Right protein/fat ratio 6:1 in accord. with NEO index which takes temperature, function, animal size, age into account
- With salmon, shrimp, octopus, spirulina and gammarus for a natural diet for sterlets (at 10-25 °C)
- Food size S (3 mm) for fish 10-30 cm.
- Sinking pearls with 40 % protein, 12 % fat, 2 % crude fibre and 8 % crude ash
- Small food pearls in resealable bag (air, water and lightproof) for the preservation of quality

Art. no.	Content	Weight
41276	1 l	0,5 kg
41277	3 l	1,5 kg
41278	6 l	3,0 kg
41279	12 l	6,0 kg



**JBL ProPond Sterlet M**

**Complete food for medium-sized sterlets**

- Right protein/fat ratio 3:1 in accord. with NEO index which takes temperature, function, animal size, age into account
- With salmon, shrimp, octopus, spirulina and gammarus for a natural diet for sterlets (at 10-25 °C)
- Food size M (6 mm) for fish 30-60 cm.
- Sinking pearls with 40 % protein, 12 % fat, 2 % crude fibre and 8 % crude ash
- Medium-sized food pearls in resealable bag (air, water and lightproof) for the preservation of quality

Art. no.	Content	Weight
41282	6 l	3,0 kg
41283	12 l	6,0 kg

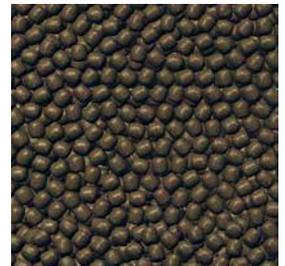


**JBL ProPond Sterlet L**

**Complete food for large sterlets**

- Right protein/fat ratio 3:1 in accord. with NEO index which takes temperature, function, animal size, age into account
- With salmon, shrimp, octopus, spirulina and gammarus for a natural diet for sterlets (at 10-25 °C)
- Food size L (9 mm) for fish 60-90 cm.
- Sinking pearls with 40 % protein, 12 % fat, 2 % crude fibre and 8 % crude ash
- Large food pearls in resealable bag (air, water and lightproof) for the preservation of quality

Art. no.	Content	Weight
41285	6 l	3,0 kg
41286	12 l	6,0 kg



food ProPond > species > flakes



NEW

**JBL ProPond Flakes**  
**Flake food for all pond fish**

- Right protein/fat ratio 3:1 in accord. with NEO index which takes temperature, function, animal size, age into account
- With wheat, gammarus, salmon, shrimp, and seaweed for vigorous and healthy pond fish (at 10-30 °C water temperature)
- Food size M (5-20 mm) for fish 10-35 cm.
- Floating flakes with 12 % protein, 4 % fat, 1 % crude fibre and 2 % crude ash
- Complete food in resealable (air, water and lightproof) bag for the preservation of quality

Art. no.	Content	Weight
<b>41270</b>	1 l	0,13 kg
<b>41271</b>	5,5 l	0,72 kg



NEW

**JBL ProPond Vario**  
**Food mix for all pond fish**

- Right protein/fat ratio 3:1 in accord. with NEO index which takes temperature, function, animal size, age into account
- With wheat, gammarus, salmon, shrimp, and seaweed for vigorous and healthy pond fish (at 10-30 °C water temperature)
- Food size M (5-20 mm) for fish 10-35 cm.
- Floating sticks & flakes with 23 % protein, 7 % fat, 4 % crude fibre and 11 % crude ash
- Complete food in resealable bag (air, water and lightproof) for the preservation of quality

Art. no.	Content	Weight
<b>41273</b>	1 l	0,13 kg
<b>41274</b>	5,5 l	0,72 kg



food ProPond > function > growth



NEW

**JBL ProPond Growth XS**  
**Growth food for very small koi**

- Right protein/fat ratio 6:1 in accord. with NEO index which takes temperature, function, animal size, age into account
- With salmon, shrimp, spirulina, fish oil for optimal growth (at 10-25 °C water temperature)
- Food size XS (1.5 mm) for fish 5-15 cm.
- Floating pearls with 52 % protein, 9 % fat, 2 % crude fibre and 10 % crude ash
- Food pearls in resealable bag (air, water and lightproof) for the preservation of quality

Art. no.	Content	Weight
<b>41289</b>	3 l	1,3 kg



NEW

**JBL ProPond Growth S**  
**Growth food for small koi**

- Right protein/fat ratio 5:1 in accord. with NEO index which takes temperature, function, animal size, age into account
- With salmon, shrimp, spirulina, fish oil for optimal growth (at 10-25 °C water temperature)
- Food size S (3 mm) for fish 15-35 cm.
- Floating pearls with 46 % protein, 10 % fat, 2 % crude fibre and 10 % crude ash
- Food pearls in resealable bag (air, water and lightproof) for the preservation of quality

Art. no.	Content	Weight
<b>41293</b>	3 l	1,3 kg
<b>41294</b>	6 l	2,5 kg
<b>41295</b>	12 l	5,0 kg



NEW

**JBL ProPond Growth M**  
**Growth food for medium-sized koi**

- Right protein/fat ratio 5:1 in accord. with NEO index which takes temperature, function, animal size, age into account
- With salmon, shrimp, spirulina, fish oil for optimal growth (at 10-25 °C water temperature)
- Food size M (6 mm) for fish 35-55 cm.
- Floating pearls with 46 % protein, 10 % fat, 2 % crude fibre and 10 % crude ash
- Food pearls in resealable bag (air, water and lightproof) for the preservation of quality

Art. no.	Content	Weight
<b>41297</b>	6 l	2,5 kg
<b>41298</b>	12 l	5,0 kg



NEW

**JBL ProPond Growth L**  
**Growth food for large koi**

- Right protein/fat ratio 5:1 in accord. with NEO index which takes temperature, function, animal size, age into account
- With salmon, shrimp, spirulina, fish oil for optimal growth (at 10-25 °C water temperature)
- Food size L (9 mm) for fish 55-85 cm.
- Floating pearls with 46 % protein, 10 % fat, 2 % crude fibre and 10 % crude ash
- Food pearls in resealable bag (air, water and lightproof) for the preservation of quality

Art. no.	Content	Weight
<b>41301</b>	6 l	2,5 kg
<b>41302</b>	12 l	5,0 kg



food ProPond > function > colours



NEW

**JBL ProPond Color S**  
**Colour enhancing food for small koi**

- Right protein/fat ratio 4:1 in accord. with NEO index which takes temperature, function, animal size, age into account
- With salmon meal, shrimp, soya and astaxanthin for perfect colours (at 10-25 °C water temperature)
- Food size S (3 mm) for fish 15-35 cm.
- Floating pearls with 36 % protein, 9 % fat, 3 % crude fibre and 9 % crude ash
- Food pearls in resealable bag (air, water and lightproof) for the preservation of quality

Art. no.	Content	Weight
<b>41305</b>	3 l	1,3 kg
<b>41306</b>	6 l	2,5 kg
<b>41307</b>	12 l	5,0 kg



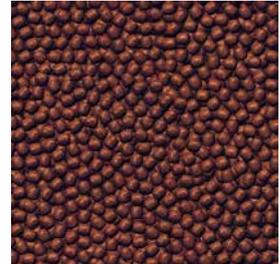
food ProPond > function > colours



**JBL ProPond Color M**  
**Colour enhancing food for medium-sized koi**

- Right protein/fat ratio 4:1 in accord. with NEO index which takes temperature, function, animal size, age into account
- With salmon meal, shrimp, soya and astaxanthin for perfect colours (at 10-25 °C water temperature).
- Food size M (6 mm) for fish 35-55 cm.
- Floating pearls with 36 % protein, 9 % fat, 3 % crude fibre and 9 % crude ash
- Food pearls in resealable bag (air, water and lightproof) for the preservation of quality

Art. no.	Content	Weight
<b>41310</b>	3 l	1,3 kg
<b>41311</b>	6 l	2,5 kg
<b>41312</b>	12 l	5,0 kg



**JBL ProPond Color L**  
**Colour enhancing food for large koi**

- Right protein/fat ratio 4:1 in accord. with NEO index which takes temperature, function, animal size, age into account
- With salmon meal, shrimp, soya and astaxanthin for perfect colours (at 10-25 °C water temperature)
- Food size L (9 mm) for fish 55-85 cm.
- Floating pearls with 36 % protein, 9 % fat, 3 % crude fibre and 9 % crude ash
- Food pearls in resealable bag (air, water and lightproof) for the preservation of quality

Art. no.	Content	Weight
<b>41315</b>	6 l	2,5 kg
<b>41316</b>	12 l	5,0 kg



food ProPond > function > active



**JBL ProPond Fitness S**  
**Fitness food for active koi**

- Right protein/fat ratio 5:1 in accord. with NEO index which takes temperature, function, animal size, age into account
- With salmon, spirulina and prebiotic beta glucanes for a vigorous diet (at 15-25 °C water temperature)
- Food size S (3 mm) for fish 15-35 cm.
- Floating wafers with 38 % protein, 8 % fat, 3 % crude fibre and 9 % crude ash
- Fitness wafers in resealable bag (air, water and lightproof) for the preservation of quality

Art. no.	Content	Weight
<b>41318</b>	1 l	0,4 kg
<b>41319</b>	3 l	1,3 kg
<b>41320</b>	6 l	2,5 kg
<b>41321</b>	12 l	5,0 kg



**JBL ProPond Fitness M**  
**Fitness food for active koi**

- Right protein/fat ratio 5:1 in accord. with NEO index which takes temperature, function, animal size, age into account
- With salmon, spirulina and prebiotic beta glucanes for a vigorous diet (at 15-25 °C water temperatures)
- Food size M (6 mm) for fish 35-55 cm.
- Floating wafers with 38 % protein, 8 % fat, 3 % crude fibre and 9 % crude ash
- Fitness wafers in resealable bag (air, water and lightproof) for the preservation of quality

Art. no.	Content	Weight
<b>41323</b>	3 l	1,3 kg
<b>41324</b>	6 l	2,5 kg
<b>41325</b>	12 l	5,0 kg



**JBL ProPond Fitness L**  
**Fitness food for active koi**

- Right protein/fat ratio 5:1 in accord. with NEO index which takes temperature, function, animal size, age into account
- With salmon, spirulina and prebiotic beta glucanes for a vigorous diet (at 15-25 °C water temperature)
- Food size L (9 mm) for fish 55-85 cm.
- Floating wafers with 38 % protein, 8 % fat, 3 % crude fibre and 9 % crude ash
- Fitness wafers in resealable bag (air, water and lightproof) for the preservation of quality

Art. no.	Content	Weight
<b>41328</b>	6 l	2,5 kg
<b>41329</b>	12 l	5,0 kg



food ProPond > goddies > snack



**JBL ProPond Silkworms**  
**Silkworm Goody for koi**

- Right protein/fat ratio 5:1 in accord. with NEO index which takes temperature, function, animal size, age into account
- Silkworms with salmon, gammarus, spirulina and seaweed for a complete nutrition (at 15-25 °C water temperature)
- Food size M (15 mm) for fish 35-55 cm.
- Floating extrudate with 44 % protein, 9 % fat, 2 % crude fibre and 10 % crude ash
- 1 kg shrimp extrudate in resealable bag (air, water and lightproof) for the preservation of quality.

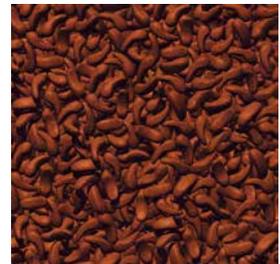
Art. no.	Content	Weight
<b>41331</b>	3 l	1 kg



**JBL ProPond Shrimp**  
**Shrimp Goody for koi**

- Right protein/fat ratio 4:1 in accord. with NEO index which takes temperature, function, animal size, age into account
- Shrimp with salmon, wheat germs, krill and spirulina for a complete nutrition (at 15-25 °C water temperature)
- Food size M (15 mm) for fish 35-55 cm.
- Floating extrudate with 38 % protein, 10 % fat, 2 % crude fibre and 10 % crude ash
- 1 kg shrimp extrudate in resealable bag (air, water and lightproof) for the preservation of quality

Art. no.	Content	Weight
<b>41333</b>	3 l	1 kg





### JBL StabiloPond Basis

#### Basic care product for all garden ponds

- Natural, biotope-like pond water balance: basic care product to stabilise the KH, GH and pH values in the pond
- Supplies minerals, stabilises the pH value, activates self-purification capacity
- Supplies minerals, stabilises the pH value, activates self-purification capacity
- The effectiveness of an anti-algae agent depends on a stabilised pH value
- Dosage: 100 g granulate for 1000 l pond water

Art. no.	Content	Range
<b>27310</b>	0,25 kg	2500 l
<b>27311</b>	1 kg	10000 l
<b>27312</b>	2,5 kg	25000 l
<b>27313</b>	5 kg	50000 l
<b>27314</b>	10 kg	100000 l



### JBL FilterStart Pond

#### Bacteria starter for pond filters

- When using the filter for the first time, after filter cleaning or medication treatment: bacteria cultures to activate pond filters
- Healthy pond water: fast filter activation (within a few days) and service life extension of the pond filter
- Healthy pond filter: activates the filter quickly (within a few days) and prolongs the pond filter's service life.
- No risk for fish and plants, ecologically balanced: breaks down ammonium/ammonia, nitrite and nitrate
- Dosage: 250 g granulate for 10.000 l pond water

Art. no.	Content	Range
<b>27325</b>	0,25 kg	10000 l

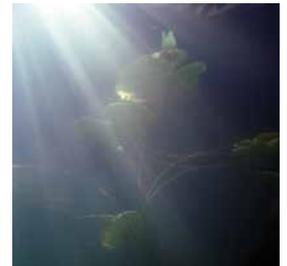


### JBL AlgoPond Sorb

#### Biological algae blocker for the pond

- Crystal-clear water by reducing the algae growth – biological algae blocker for the pond.
- Easy to use: determine the required quantity, mix it with pond water in a watering can, pour it evenly over the pond
- Sunglasses effect: the reduction of light irradiation has a preventive effect against algae
- Active iodine and vital substances to promote the health of the fish, no decrease of the pH level or the hardness in the pond
- Dosage: 40 ml per about 700 - 800 l pond water

Art. no.	Content	Range
<b>27362</b>	0,5 l	10000 l
<b>27363</b>	2,5 l	50000 l



### JBL SediEx Pond

#### Bacteria and active oxygen for the breakdown of sludge

- For water to suit both fish and plants: cleansing bacteria and active oxygen for the breakdown of pond sludge
- Easy to use: calculate required quantity, spread the granulate over the pond water, spread active oxygen
- Healthy pond water: breakdown of organic waste leads to a consumption of surplus nutrients
- Averts fish loss, prevents algae, supports decomposition processes at the bottom of the pond
- Dosing: component 1 : 30 – 50 g / component 2 : 50 g / 1000 l pond water

Art. no.	Content	Range
<b>27330</b>	0,25 kg	2500 l
<b>27331</b>	1 kg	10000 l
<b>27332</b>	2,5 kg	25000 l



### JBL CleroPond

#### Water clarifier for the elimination of water cloudiness

- For water to suit fish and plants: water clarifier for the removal of all types of clouding
- Easy to use: determine the required quantity, mix it with pond water in a watering can, pour it evenly over the pond
- Immediate effect: flocculation of turbidity (collection via filter or pond vacuum cleaner)
- Harmless for fish, recognisable effect due to white cloud formation
- Dosage: 40 ml per approx. 700 - 800 l pond water

Art. no.	Content	Range
<b>27350</b>	0,5 l	10000 l
<b>27351</b>	2,5 l	50000 l



### JBL Test Combi Set Pond

#### The most important water tests for garden ponds

- Simple and professional checking with 6 very precisely indicating water tests
- Take a water sample, add drop-wise the indicator, compare resulting colour on colour chart and read off values
- With: pH test (acidity) KH (pH stability), GH (minerals), NH4 (nitrogen), nitrite (toxin), phosphate (algae nutrient)
- Comparator system for easy and precise reading and for taking the possible inherent water colouring into account
- Complete, incl. water-proof case, colour charts, glass vials, syringe, dosing spoon, comparator block and test reagents

Art. no.
<b>28100</b>



### JBL Testlab Koi

#### Professional test case for koi and garden ponds

- Simple and reliable control of various water values in ponds
- Easy to use: syringe for exact measurement of the water quantity, detailed instructions for use
- Laboratory comparator system to compensate the inherent water colouring, analysis record sheet, instructions
- Child-proof reagent bottles, water-proof plastic case, refillable kit
- Incl. 12 reagents, 6 glass vials, 2 syringes, 3 dosing spoons, thermometer, comparator block, 2 plastic cuvettes

Art. no.
<b>28020</b>



## care products > Water test



### JBL PondCheck

#### Quick test to determine the pH and KH values

- Controls the water values simply and reliably. Determines the pH and KH values in pond water
- Fill the test vial, add 5 drops, shake gently, leave it for 1 minute, compare with colour chart
- Use: for determining or routine checking the pH and KH levels in the pond water.
- JBL Online Laboratory: checks for a healthy garden pond – quick tests or colour change tests for the water analysis
- Contents for approx. 50 measurements

Art. no.  
**28015**

Content For  
50 Tests



### JBL Phosphate Test Kit PO<sub>4</sub> for koi

#### Quick test to determine the phosphate content

- Controls the water values in koi ponds reliably: determines the algae nutrient phosphate between 0.25 up to 10 mg/l
- Use: for the measurement and the routine monitoring of the phosphate content
- Use: for the measurement and the routine monitoring of the phosphate content
- JBL Online Laboratory: checks for a healthy garden pond - quick tests or colour change tests for the water analysis
- Contents for approx. 50 measurements

Art. no.  
**28021**

For  
50 tests



## care products > combating algae



### JBL StabiloPond KH

#### pH balancer for garden ponds

- Natural pond water balance: granulate to stabilise the pH value in the pond between 7.5 and 8.5
- Easy to use: determine the required quantity, spread it on the pond
- Life insurance for fish and plants: prevents fish loss during algae blooms
- No risk for fish and plants: precise increase of carbonate hardness and absorption of heavy metals
- For first use or at carbonate hardness 0: 200 g / 1000 l pond water, for repeated use: 100 g / 1000 l pond water

Art. no.	Content	Range
<b>27317</b>	0,25 kg	2500 l
<b>27318</b>	1 kg	10000 l
<b>27319</b>	2,5 kg	25000 l
<b>27320</b>	5 kg	50000 l
<b>27321</b>	10 kg	100000 l



### JBL AlgoPond Forte

#### Water conditioner against all algae in the garden pond

- For water to suit both fish and plants: water conditioner to combat all algae in the garden pond
- Easy to use: determine the required quantity, mix it with pond water in a watering can, pour it evenly over the pond
- Quick treatment against green water and thread algae by affecting the algae's metabolism
- Does not contain any copper
- Dosage: 50 ml per about 1000 l pond water

Art. no.	Content	Range
<b>27405</b>	0,25 l	5000 l
<b>27406</b>	0,5 l	10000 l
<b>27407</b>	2,5 l	50000 l
<b>27408</b>	5 l	100000 l

Use biocides safely.  
Always read the labelling and product information before use.



### JBL AlgoPond Direct

#### Active oxygen to combat thread algae

- For a pond without thread algae problems: active oxygen to combat thread algae in the garden pond.
- Easy to use: determine the required quantity, spread it on the algae surface, remove the algae with catch net
- Reliable and fast: combat and destruction of the algae cells within a few hours
- Not harmful to fish when used correctly
- Dosage: 30 - 50 ml per about 1000 l pond water

Art. no.	Content	Range
<b>27355</b>	0,25 kg	8000 l
<b>27356</b>	1 kg	30000 l
<b>27357</b>	2,5 kg	80000 l

Use biocides safely.  
Always read the labelling and product information before use.



### JBL AlgoPond Green

#### Water conditioner to combat floating algae

- For water to suit both fish and plants: water conditioner to combat floating algae (green water) in the pond.
- Easy to use: determine the required quantity, mix it with pond water in a watering can, pour it evenly over the pond.
- Reliable and fast: attacks and destroys algae cells within a few days.
- Harmless to fish when used correctly.
- Dosage: 25 ml per approx. 1000 l pond water

Art. no.	Content	Range
<b>26064</b>	0,25 l	5000 l
<b>26065</b>	0,5 l	10000 l
<b>26066</b>	2,5 l	50000 l
<b>26067</b>	5 l	100000 l

Use biocides safely.  
Always read the labelling and product information before use.



### JBL PhosEX Pond Filter

#### Phosphate remover for pond filters

- For pond water to suit both fish and plants: granules to reliably remove the algae nutrient phosphate
- Easy to use: fill the net bag, rinse under running water, insert between the filter materials
- Eliminates the basic nutrients of all types of algae: significant reduction of high phosphate contents (after only 24 hours), effective for about 3 months
- Without any harmful side effects: harmless to fish, no release of aluminium
- For 5000 l pond volume, incl. net bag

Art. no.	Content	Range
<b>27373</b>	0,5 kg	5000 l
<b>27374</b>	1 kg	10000 l
<b>27375</b>	2,5 kg	25000 l



care products > Algaecide



**JBL PhosEX Pond Direct**  
Phosphate remover for ponds

- For pond water to suit both fish and plants: reliable removal of algae nutrient phosphate from the pond water
- Easy to use: calculate the required quantity, mix with pond water in watering can, distribute evenly
- Eliminates the basic nutrients of all types of algae: significant reduction of high phosphate contents (already after 2-24 hours)
- Without any harmful side effects: harmless to fish, no release of aluminium
- Dosage: 40 ml for approx. 800 l pond water

Art. no.	Content	Range
27393	0,25 l	5000 l
27394	0,5 l	10000 l
27395	2,5 l	50000 l
27396	5 l	100000 l



care products > Plant care



**JBL FloraPond**  
Fertiliser balls for pond plants

- Primary care of garden pond plants: Clay fertiliser balls for water lilies and marsh plants
- Vigorous plant growth, no deficiency symptoms, best, most intensive leaf colouring due to the right iron concentration
- Vigorous plant growth, no deficiency symptoms, best, most intensive leaf colouring due to the right iron concentration
- Perfect fertilising thanks to balanced mineral content
- 8 fertiliser balls for pond plants – diameter 30 mm.

Art. no.	Content	Ø
27380	8 Pieces	30 mm



care products > Fish care > remedies



**JBL ArguPond Plus**  
Remedy against carp lice and anchor worms

- Rapid treatment: remedy for carp lice and anchor worms, gill maggots and other parasitic crustaceans
- Easy to use: determine the required quantity, mix it with pond water in a watering can, pour it evenly over the pond
- Only use in water temperatures over 18 °C.
- JBL Online Hospital: gives you access to identify fish diseases
- Dosage: 40 ml per 800 l pond water

Art. no.	Content	Range
27132	0,5 l	10000 l
27134	5 l	100000 l

\*For questions on risks and side-effects please read the package insert and ask your veterinary or pharmacist.

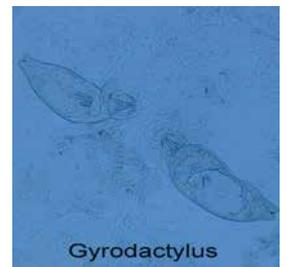


**JBL GyroPond Plus**  
Remedy for skin and gill flukes and tape worms

- Quick and reliable help: remedy for skin and gill flukes and tape worms
- Easy to use: calculate required quantity, mix it with pond water in watering can, distribute evenly
- Retention time in pond: 1 week
- JBL Online Hospital: gives you access to identify fish diseases
- Dosage: 40 ml per 800 l pond water

Art. no.	Content	Range
27136	0,5 l	10000 l

\*For questions on risks and side-effects please read the package insert and ask your veterinary or pharmacist.



**JBL FuraPond**  
Treats internal & external bacterial diseases

- Remedy with very effective antibiotic Nifurpirinol to treat all kinds of bacterial diseases
- Helps to treat ulcers, fin rot and popeye rapidly and reliably, occurring in spring
- Is effective against bacteria of the genera Aeromonas, Pseudomonas, Columnaris, Flexibacter and others
- Very well tolerated, even for crayfish. Is quickly absorbed through the gills
- Remedy in tablet form for koi and other pond fish, use: 1 tablet per 175 l water, package for 4200 l

Art. no.	Content	Range
27180	24 Tabl.	4200 l

In Germany, drugs with the active ingredient, sodium nifurstyrenate, are prescription drugs and may not be advertised by pictures.



**JBL Ektol bac Pond Plus**  
Remedy for bacteria and fin rot

- Rapid treatment: remedy for ulcers, fin rot, popeye and dropsy, which often occur in spring
- For bacterial infestation in pond fish
- Simple to use: calculate required quantity, mix with pond water in watering can, distribute evenly over pond
- JBL Online Hospital: gives you access to identify fish diseases
- Dosage: 40 ml per 800 l pond water

Art. no.	Content	Range
27141	0,5 l	10000 l
27142	2,5 l	50000 l
27143	5 l	100000 l

\*For questions on risks and side-effects please read the package insert and ask your veterinary or pharmacist.



**JBL MedoPond Plus**  
Remedy to treat white spot disease and fungal infections

- Quick and reliable help: remedy to treat white spot disease and fungal infections
- Easy to use: determine the required quantity, mix it with pond water in a watering can, pour it evenly over the pond
- Does not contain any copper
- JBL Online Hospital: gives you access to identify fish diseases
- Dosage: 40 ml per 800 l pond water

Art. no.	Content	Range
27144	0,25 l	5000 l
27145	0,5 l	10000 l
27146	2,5 l	50000 l
27147	5 l	100000 l

\*For questions on risks and side-effects please read the package insert and ask your veterinary or pharmacist.



care products > Fish care > Water conditioning



**JBL Biotopond**

**Water conditioner for ponds**

- Pond environment to suit fish: water conditioner for a healthy pond environment and for the protection against stress and diseases
- Easy to use: determine the required quantity, mix it with pond water in a watering can, pour it evenly over the pond
- Promotion of plant growth, protects gills, skin and fins, protection against stress and diseases
- Absorption of toxic heavy metals, complete removal of chlorine and chloramine
- Dosage: 30 - 50 g/ 1000 l pond water.

Art. no.	Content	Range
<b>26060</b>	0,25 l	5000 l
<b>26061</b>	0,5 l	10000 l
<b>26062</b>	2,5 l	50000 l
<b>26063</b>	5 l	100000 l



**JBL Bactopond**

**Bacteria for self-purification of the pond**

- For water to suit both fish and plants: cleansing bacteria for the breakdown of biological contaminants in the garden pond
- Easy to use: determine the required quantity, mix it with pond water in a watering can, pour it evenly over the pond
- Healthy pond water: removal of excess nutrients by the break down of biological waste
- Avoiding fish loss, preventing algae
- Dosage: 40 ml per approx. 700 - 800 l pond water

Art. no.	Content	Range
<b>27326</b>	0,25 l	5000 l
<b>27327</b>	0,5 l	10000 l
<b>27328</b>	2,5 l	50000 l



**JBL Acclipond**

**Water conditioner for ponds**

- Pond environment ideally suited to the requirements of the fish: water conditioner to activate the resistance and to promote the fish's health
- Promotes readiness to spawn, strengthens immunity, enhances vitality and energy metabolism
- Stress-free fish transport, acclimatisation of pond fish, after the use of remedies
- Dosage 40 ml per 800 l pond water

Art. no.	Content	Range
<b>26070</b>	0,5 l	10000 l
<b>26071</b>	5 l	100000 l



Technic > aeration & accessories



**JBL PondOxi-Set**

**Aeration set with air pump for garden ponds**

- Protects the pond against oxygen deficiency: reliable aeration and oxygen supply through set with floater and air pump
- Set up in dry place, connect pump and air stone with hose, put air hose into the holder
- Protection against oxygen deficiency, variable positioning at any water depth thanks to floater with hose holder
- High-powered air pump: 200 l/h air flow rate, 230 V, 50 Hz, 3 W, large ball-shaped 40 mm air stone
- Incl. air pump, 10 m air hose, air stone, floater with hose holder

Art. no.	Performance	Watt
<b>28013</b>	200 l/h	3 W



**JBL Floater + AntiKink**

**Floater with anti-kink protection for PondOxi-Set**

- Smart accessory: floater with anti-kink protection to fix an air hose with an air stone
- No contact with the lower water layers – no complete intermixing of the water
- No contact with the lower water layers – no complete intermixing of the water
- Firm hold through hose holder, position air stone at desired height.
- Incl. air pump, 10 m air hose, air stone, floater with hose holder

Art. no.	For Ø
<b>28016</b>	6 mm



Accessories > control > thermometers



**JBL Pond Thermometer**

**Floating pond thermometer**

- Conveniently monitors the pond temperature: floating pond thermometer makes the water temperature easy to read
- Shows water temperature at 20 cm depth, temperature indication between 0 and 50 °C
- Easy to use thanks to nylon cord
- JBL recommendation: the right treatment for every temperature
- Incl. 5m cord

Art. no.
<b>28011</b>





**JBL Pond Landing Net, short**  
**Pond catch net with 90 cm telescopic handle**

- Catching pond fish gently: robust catch net with aluminium handle
- Telescopic handle expandable to 90 cm, with handle reinforcement
- To make catching fish easier: stable net fabric, durable netting, reinforced handle for daily use
- Available with fine-meshed white or coarse meshed black net
- Contents: 1 JBL pond catch net with telescopic handle, 90 cm length, 30.5 x 20.5 cm

Art. no.  
**28705**  
**28706**

Length  
 90 cm  
 90 cm

Width  
 30,5 cm  
 30,5 cm



**JBL Pond Landing Net, long**  
**Pond catch net with 190 cm telescopic handle**

- Catching pond fish gently: robust catch net with sturdy aluminium handle
- Telescopic handle expandable to 190 cm, with handle reinforcement
- To make catching fish easier: stable net fabric, coarse netting, reinforced handle for daily use
- Available with fine-meshed white or coarse meshed black net
- Contents: 1 JBL pond catch net with telescopic handle, 190 cm length, 35 x 30 cm

Art. no.  
**28701**  
**28702**

Length  
 190 cm  
 190 cm

Width  
 35 cm  
 35 cm



## Promotion > Pond friends



### JBL Manual Pond 2017-2018

#### Information & product manual for pond and koi enthusiasts

- Comprehensive information about all important garden pond and koi topics.
- Comprehensive section about fish diseases and medications.
- Large colour photo index of the most popular koi varieties.
- Complete product catalogue for all JBL pond and koi products.
- Also available as download at any time: <http://www.jbl.de/qr/100171>

Art. no.  
**97480**

Language  
DE/EN/FR/  
NL/ES/IT



### JBL Folder ProPond NEO Food Concept

#### Brochure about pond fish nutrition in accordance with the NEO index

- 40-page colour brochure
- In a slim, stylish 10x30 cm format
- Subjects: NEO index, physiology, ingredients, food size & amount, different foods, food finder & season table
- Available in the following languages: DE/EN/FR/NL/ES/IT

Art. no.  
**96220**

Language  
DE/EN/FR/  
NL/ES/IT

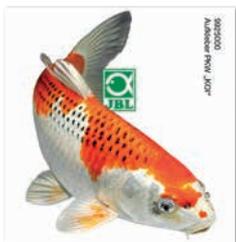


### JBL ProPond dosing cup

#### Dosing cup for pond food

- Dosing cup to measure the right amount of JBL ProPond food
- Fill in the food and read off the amount in grammes of the respective food type at the side
- On the packaging you will find the recommended grammes per fish per day/ according to fish size
- Indicates 10, 25, 40, 50, 100 und 150 g, depending on the type of food
- Calculated in a way to suit ALL JBL foods and with added dimensions

Art. no.  
**95431**



### JBL car sticker

#### Small, high quality sticker for koi enthusiasts

- 8cm high, tasteful sticker for car etc.
- Colourfast and UV-resistant.
- Declare your passion!
- Removable without leaving residue.
- Package contents: 1 sticker for koi enthusiasts, 8cm, individually packed

Art. no.  
**99250**



## Promotion > Fish transport



### JBL Fish Bags – XL

#### Extra large top-quality fish bags

- Rounded heat-sealed corners on the bottom
- Size: 30 cm x 60 cm.

Art. no.  
**95423**

Length  
60 cm

Width  
30 cm



### JBL fish transport bag XXL

#### Koi transport bag

- For the safe and problem-free transport of pond fish.
- Size: 150 x 60 cm.
- Double sealed seams for maximum reliability.
- Very stable wall thickness of 100 my (= 0.1 mm).
- With JBL ProPond motive printed on one side. The other side is completely blank.

Art. no.  
**95402**

Length  
150 cm

Width  
60 cm



### JBL Rubber rings (rubber bands)

#### 1 kg for (e.g.) fish bags of all sizes

Art. no.  
**95260**

Weight  
1000 g

Content  
~ 3000 pc.

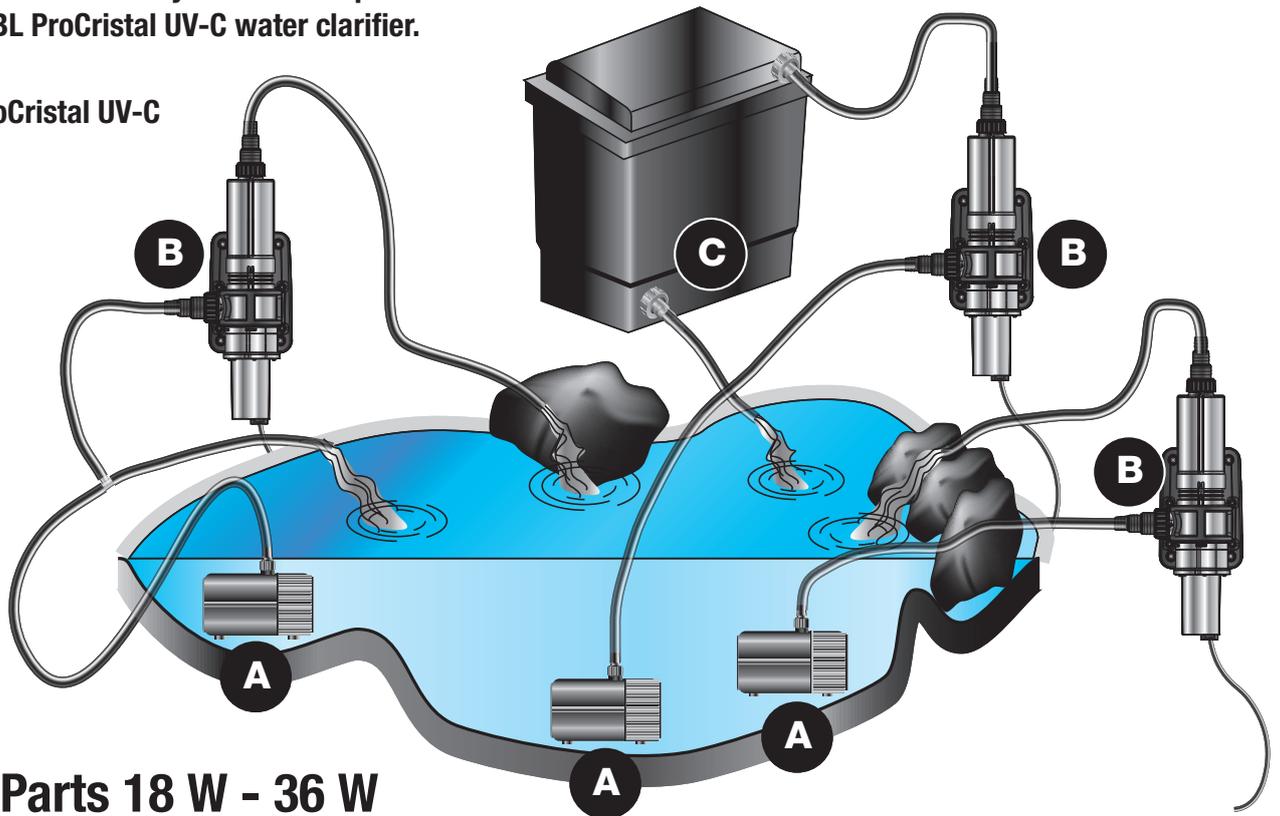


# JBL ProCristal UV-C

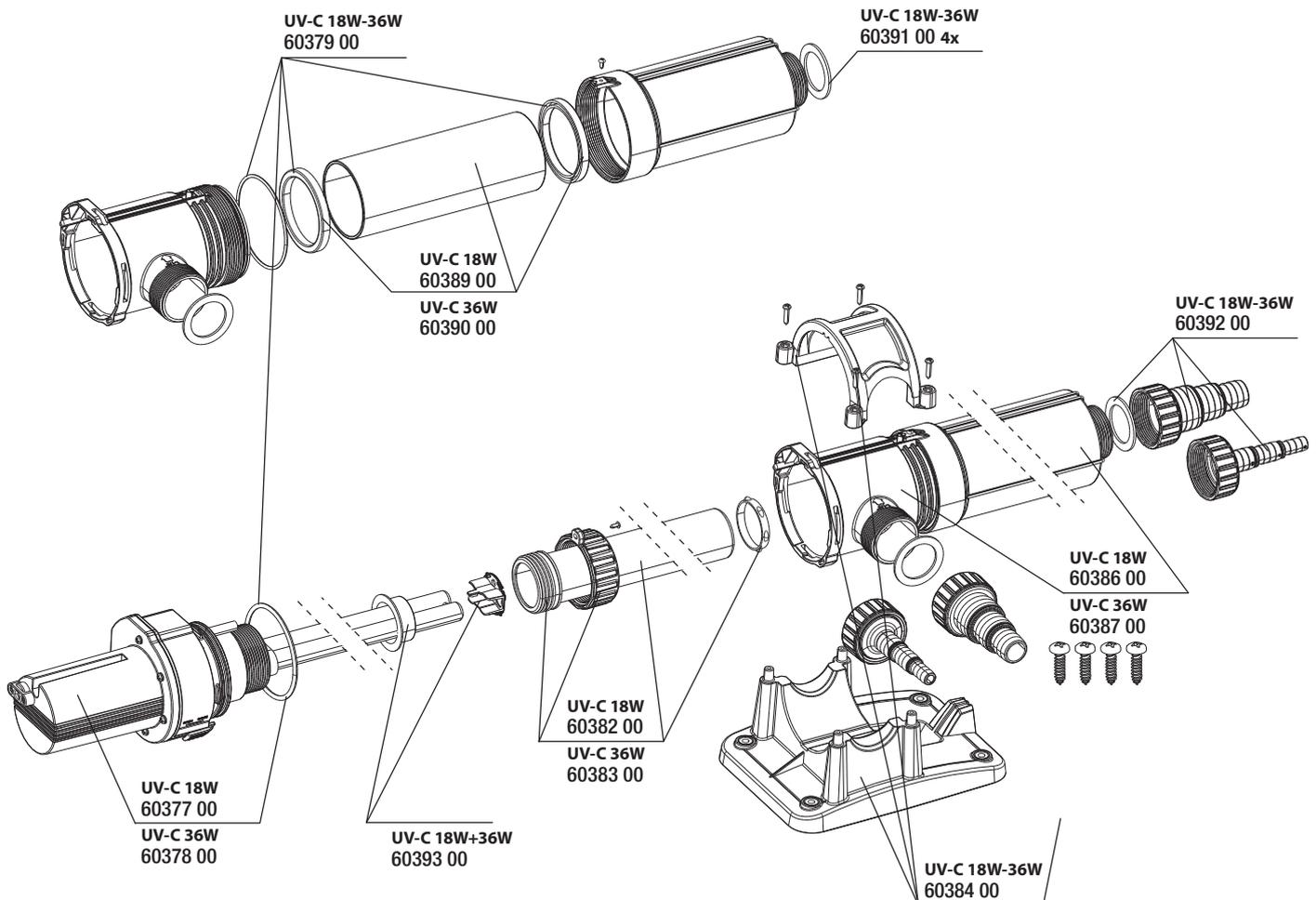
Use in a garden pond

Crystal-clear and healthy water in the pond with the JBL ProCristal UV-C water clarifier.

- A - pump
- B - JBL ProCristal UV-C
- C - filter



## Spare Parts 18 W - 36 W





# The JBL success story

**From a 30 m<sup>2</sup> pet shop to a worldwide pond- and aquarium product specialist.**

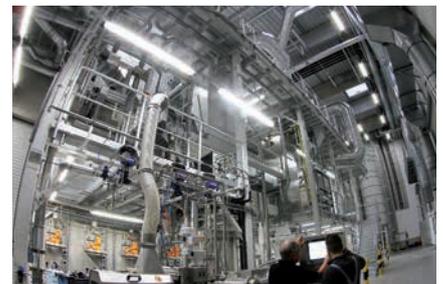
It all began in Ludwigshafen in 1960 with a small pet shop, just 30 m<sup>2</sup> in size, which Joachim Böhme, a trained chemist from Dresden, opened and so made his hobby his job. His love of animals, his white lab coat as his working clothes, and his friendly manner as well as his specialist knowledge all contributed to his success.

His business grew and the pet shop evolved into a wholesale ornamental fish business. As fish diseases became a problem, Joachim Böhme put his studies to good use and developed a highly effective remedy against ectoparasites, which he named Punktol. Up to the present day, JBL, under the leadership of Roland Böhme, the son of the founder, has expanded its range to over 1000 products for the aquarium, terrarium and garden pond and has established a position as a leading producer in this field, exporting to 65 countries around the world.

Using the latest production and filling plant, all JBL products are manufactured and dispatched in Neuhofen. The company site covers over 12,000 m<sup>2</sup> and includes not only the Production plant and the 6,500 m<sup>2</sup> Logistics Center completed in 2008, but also the Research Center. Here many fully stocked aquariums and terrariums operate on a permanent basis in order to test all the products under realistic conditions. In order to take the in-house tests to an even more stringent level, JBL cooperates with leading scientific institutions throughout Europe, such as the Leibnitz Institute for Marine Science in Kiel (IFM Geomar), the Department of Measurement and Laser Technology at the University of Ulm and the Haus des Meeres in Vienna.

In addition to the usual experiments and tests in the laboratory, JBL biologists have for many years now gained their insight into the habitats and life of the animals directly from nature in the course of JBL research expeditions and workshops. The protection of wildlife and environmental awareness are key factors for JBL. By means of a photovoltaic system installed on the roofs of the company buildings, JBL is able to generate sufficient electricity itself to meet the entire requirements of production. For many years JBL has been a supporter of the SHARK PROJECT, the largest international protection organization for sharks, as sharks are threatened with imminent extinction at the hands of man.

Garden Pond enthusiasts know that they can depend on the quality of JBL products and appreciate the new innovations which JBL regularly launches on the market. Dr. Rainer Keppler, Director of Development at JBL states, "The best ideas don't originate from us! It's the pond enthusiasts, terrarium fans and sales staff who phone us and tell us their ideas. We then apply our knowhow to convert these often amazing ideas into products at acceptable prices."



# Understanding Mother Nature

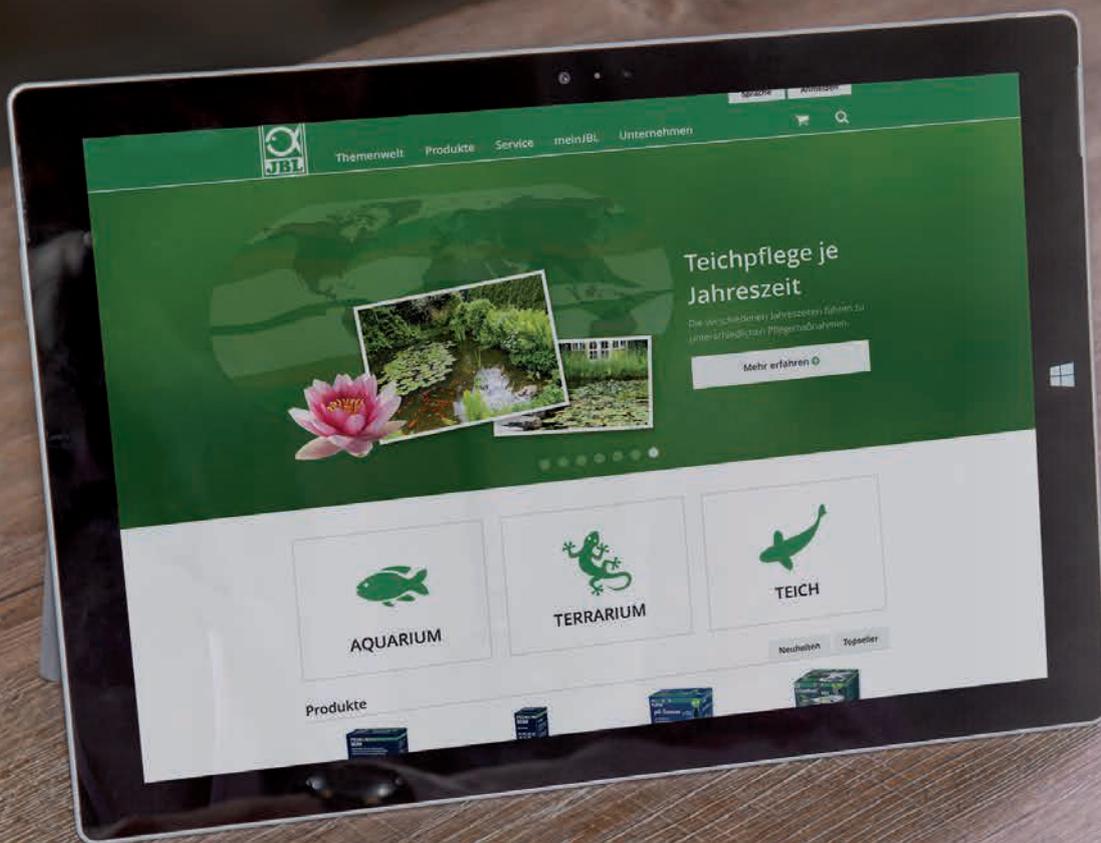
**Ahead through research.**

**G**arden ponds are different to natural ponds and lakes. These differences only become apparent through intensive research in natural waters and garden ponds. Based on these studies, the JBL research department started to develop products, to prevent the build-up of algae in garden ponds, to combat diseases and to keep the water crystal-clear. Laboratory work alone is not sufficient for garden pond research. It is the natural factors, such as leaves, rain and thunderstorms that show up the problem areas, which require further work.

JBL's research team has done a good job so far. With the current JBL product range, long-term care of pond fish, in crystal-clear ponds, is possible without any difficulties



Why not visit us on the Internet and get to know JBL Online: [www.jbl.de/en](http://www.jbl.de/en)





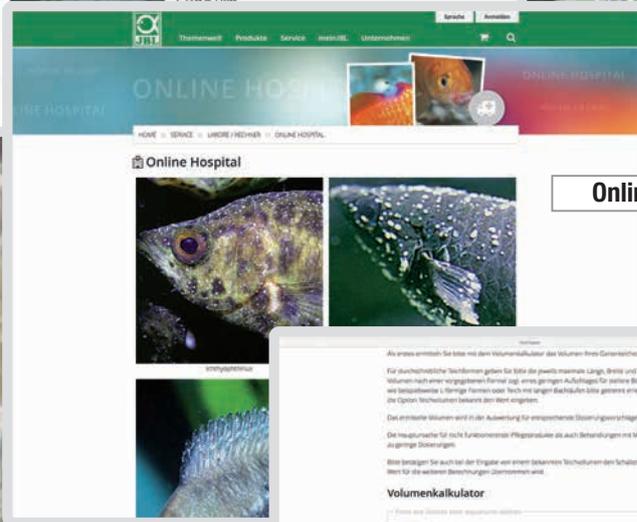
Pond Laboratory



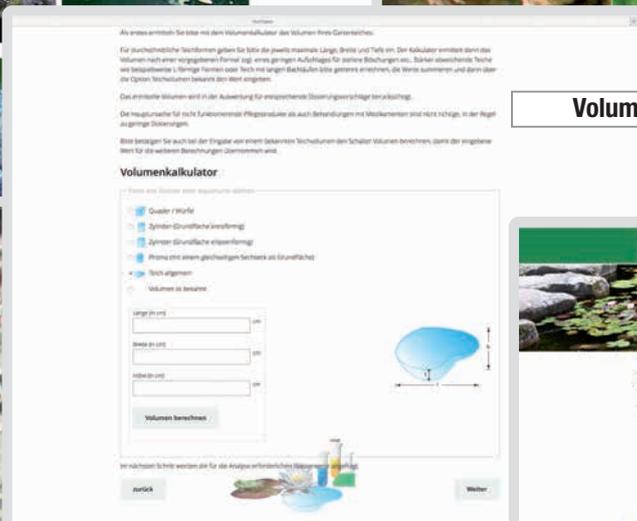
Algae problems



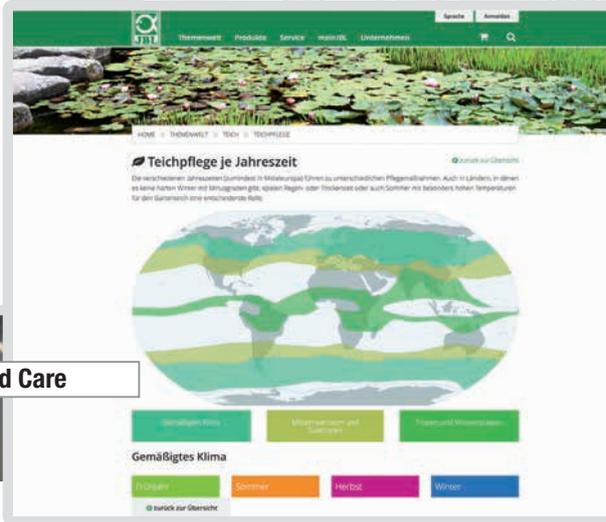
Media Center



Online Hospital



Volume Calculator



Pond Care

# JBL



We kindly ask you for environmental reasons to pass the catalogue to other interested parties if you don't need this catalogue anymore. This way you help to save raw materials.



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**VORSPRUNG  
DURCH FORSCHUNG**  
AHEAD THROUGH RESEARCH

