

The Complete

Edition 23

# Water Gardening & Aquarium Guide

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## THE CHOICE

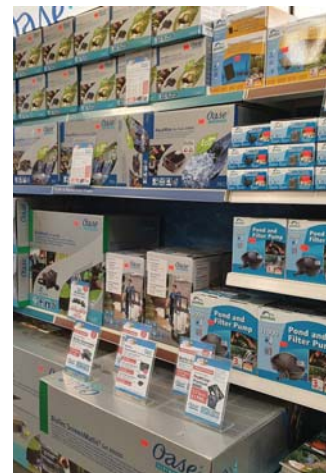
It has been said, "If World of Water don't stock it, it's probably not worth having!" World of Water stock just about everything imaginable for your aquatic needs – even items you probably haven't thought of yet!

## HELP AT HAND

Most products shown in this manual are readily available in all of our stores. Should you be travelling far, we would suggest you phone ahead to ensure that the particular items you require are in stock. We are always happy to reserve items should you require us to do so. We hope you'll find the answers to the most commonly asked questions in this manual when first thinking of building a garden pond. If you have any further queries please either visit, or phone any of our stores, where our experts will be pleased to advise you.

## AQUARIUMS

Most World of Water stores\* also specialise in aquariums for cold water and tropical fish. Whether a beginner or an enthusiast you will discover an array of equipment from starter kits to power filtration packages for all sizes of tanks.



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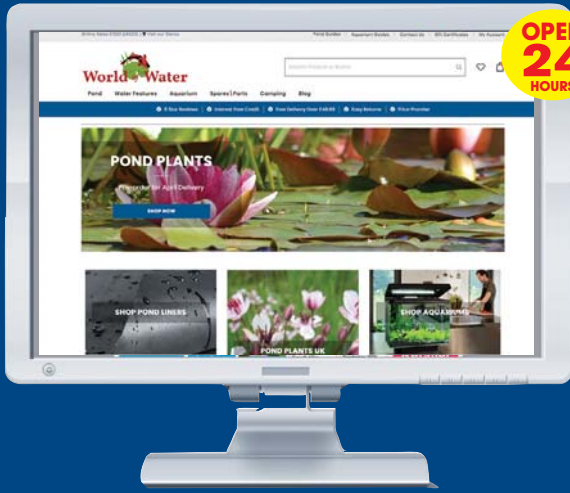
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## MUCH MORE THAN FISH

See back cover for more details

### Pet Supplies



### Reptiles



### Camping



### Fishing Tackle

## THE SAFE POND GUIDE

**Ponds and aquatic life fascinate young children! Therefore it is important to make the area safe, whilst enjoyable. Here are some simple ideas to help: -**

- ▲ Always supervise children around water.
- ▲ Position the pond in a part of the garden where access can be restricted and where it is highly visible to adults.
- ▲ A raised pond will create a natural barrier.
- ▲ Use a fence to protect the pond.
- ▲ Use wide shallow planting areas; this will allow easy escape should a child fall in.
- ▲ Visiting children are often at higher risk, as they may be unaware of the potential danger.
- ▲ Always have electrical items professionally fitted using a trip switch (RCD).
- ▲ Ensure pool edging is secure.
- ▲ Remember accidents are very rare, so enjoy your pond while being aware of safety!

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Amount of Credit	£720.00	Rate of Interest	0%
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# Basics

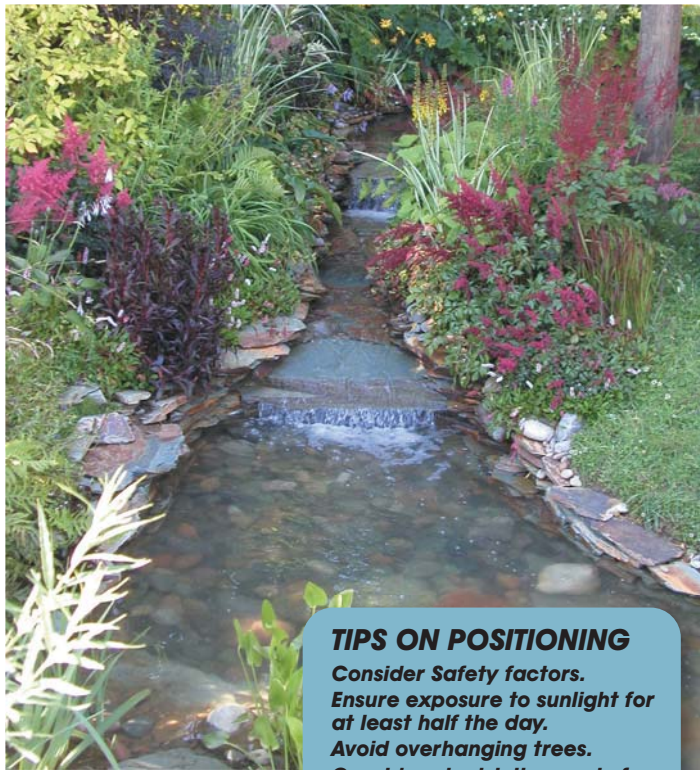
## HERE TO MAKE WATER GARDENING A REALITY

The more information you can gather before you begin building your pond, the more enjoyable the whole process becomes. A visit to any of our centres will allow you to see how many variations are available, discuss the advantages of each, and choose one that will best suit your needs. Whichever you decide to build, remember that they are difficult to move, so choose its position well, and design wisely!

## POSITIONING

Some people prefer to have the pond close to a viewing area near to the house while others prefer to keep it further down the garden, as a separate "room" to visit when there is time to relax.

Either way, try and position the pond so that it is sheltered from cold prevailing winds and receives sun light for at least half the day, as this encourages the growth and flowering of most water plants - especially lilies.



### TIPS ON POSITIONING

**Consider Safety factors.**  
**Ensure exposure to sunlight for at least half the day.**  
**Avoid overhanging trees.**  
**Consider electricity supply for pumps and filtration equipment.**  
**Avoid areas with a high water table or where water collects.**

Where possible, avoid overhanging trees as their leaves and blossom will fall in and need to be removed periodically. Particular attention should be paid to any willow, elder, oak, yew, poplars and laburnums trees in the area as their leaves are highly toxic. Additionally this will avoid tree roots piercing the pond membrane.

Any deep excavations next to structures such as walls should not be risked as ground disturbance could cause foundations and walls to subside.

Although an electricity supply can be added at a later date, it will cause less disturbance to the surrounding area if it is incorporated in the initial building of the pond.

Other factors to consider include avoiding areas where surface water tends to collect, or the presence of a high water table, as this water could easily push up under pond liners causing a number of major problems. Also avoiding these areas will reduce the risk of any pollutants being washed into the pond during heavy rain.

## SHAPE

The shape and surface area are generally down to personal preferences but it is always best to create a shape that allows the "natural" flow of water.

Using complex shapes should be avoided to alleviate construction difficulties and create less folding and wastage of pond liner.

It's always a good idea to take a rope or hose and spend time creating the shape of the pond you desire. It may be that a pre-formed pond will fit your requirements.

Alternatively, measurements can be taken to calculate the correct liner size. Using the simple step-by-step guides throughout this manual will help you to plan and budget the amount of materials you will require.

If you are considering a stream or waterfall, it is wise to keep it in proportion to the size of the pond, as a small pond with a large waterfall could suffer problems such as turbulent water flow or varying water levels when the pumps are switched on. These factors are undesirable for a balanced pond with plants and fish, but would be fine if you only wish to create a waterfall feature where the pond acts purely as a reservoir.

## DEPTH

Ideally koi, ghost carp and other large fish need a depth of at least 91 cm (3 feet) in the deepest part of the pond to allow these fish, which can easily grow to over 61 cm (2 feet) in length, to over winter successfully.

Fish such as goldfish, shubunkins and sarasa comets can be housed in smaller ponds, with a minimum depth of 46 cm (18 inches). It is helpful in maintaining a healthy and balanced pond to have at least 40% of the pond area at the maximum desired depth. This will reduce the likelihood of temperature fluctuations, which can encourage algae growth and be harmful to fish health.

## PLANTING AREAS

Marginal plants like to be positioned in shallow water around the edge of the pond. This means that the marginal shelves should be at least 23 cm (9") deep to allow sufficient depth for the planting containers. It is useful to purchase planting baskets of different sizes before digging the pond to use as templates to dig the shelves at the appropriate depth. Remember that the more shelves available, the more plants can be used. Plants are the most important factor in creating a natural balance in the pond as they soak up nutrients that would otherwise encourage algae growth. Koi and other large carp can be destructive to plants, therefore in ponds specifically for Koi it is worth creating a separate planting area that the fish are unable to access. These can take the form of shallow water areas for marginal plants or moist soil areas for bog plants.



### TIPS ON SHAPES

**Avoid complex shapes.**  
**Leave good access around the pond.**  
**Avoid creating areas where water will have trouble circulating.**  
**Consider planting areas.**

### TIPS ON DEPTH

**91 cm (3 ft) or more for larger fish.**  
**46cm (18in) or more for smaller fish.**  
**At least 40% of the area at its max depth.**  
**The deeper the pond - the better the balance.**

### TIPS ON PLANTING AREAS

**Buy some planting baskets before you start digging.**  
**Make sure the plant shelves are much wider than the baskets.**  
**Consider the depth lilies and deep water plants require.**  
**Use spare liner to create an adjacent bog garden.**

# Liner types

## 1. FLEXIBLE LINERS

Liners are the most popular and cost effective way of creating a garden pond. They are available in a wide range of materials and sizes and allow you to make a pond of any shape. Remember that the manufacturers guarantee does not include punctures - so it is worth taking care to install it correctly, using a good quality underlay.

SEE PAGE 30



# Oase

## 2. PRE-FORMED POOLS

Pre-formed ponds are made out of plastic or fibreglass, and are available in a wide range of shapes and sizes. They are extremely durable, and are popular with many, because once installed they have a smooth surface without creases. Don't be misled into buying one too small for your requirements - they look far bigger out of the ground than they do when they are installed. You will be able to see examples of pre-formed pools both out of the ground and installed at any of our centres, to give you an idea of the difference in scale.

SEE PAGE 31-33



## 3. CONCRETE CONSTRUCTION

This is the least popular method as it can be more expensive than other methods. Foundations must be solid and reinforced to prevent cracking if the subsoil shifts during the course of the year. Once rendered, the pool must be painted with at least two coats of a purpose made pond paint.

## SITING PONDS

- ▲ Siting any ponds in areas prone to water logging or where there is a high water table must be avoided due to the risk of damage. This can be avoided by having a fully or a partially raised pond.
- ▲ No sunken pond should be emptied if the ground is saturated with water. Ground water will fill the excavation from under the liner causing serious damage.
- ▲ Partially raised ponds should not be emptied below ground level in wet conditions, as above.
- ▲ Raised Ponds should be safe to empty in most conditions.
- ▲ If emptying any pond ensure you drain the water well away from the pond. This will stop the drained water running under the liner and causing damage.
- ▲ Damage caused by poor siting or external water pressure would not be covered by any warranty.
- ▲ **REMEMBER:** - Should a liner or a preformed pool fail once it has been installed, the guarantee will only cover the replacement or repair of the liner, not the installation costs, so World of Water have made sure they only sell top quality liners. Care must be taken to avoid exposed liner showing above the water level once it has been installed. Not only does it look unsightly, but also sunlight can slowly degrade it.



## NATIVE POND PLANTS



**Marsh marigold**  
(*Caltha palustris*)



**Ragged robin**  
(*Lychnis flos-cuculi*)



**Amphibious Bistort**  
(*Persicaria amphibian*)



**Water Forget-me-not**  
(*Myositis scorpioides*)



**Water Crowfoot**  
(*Ranunculus aquatilis*)

# Natural Ponds

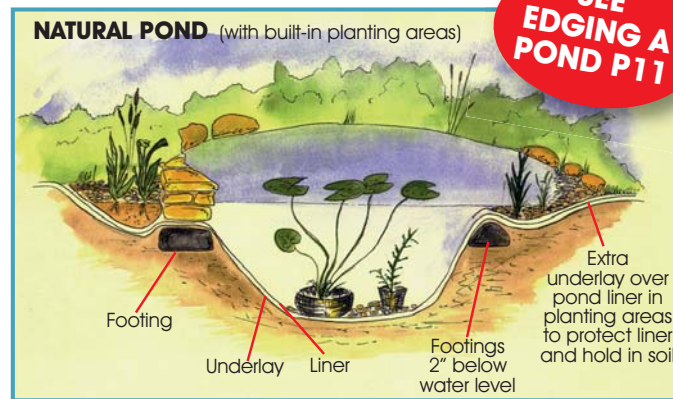
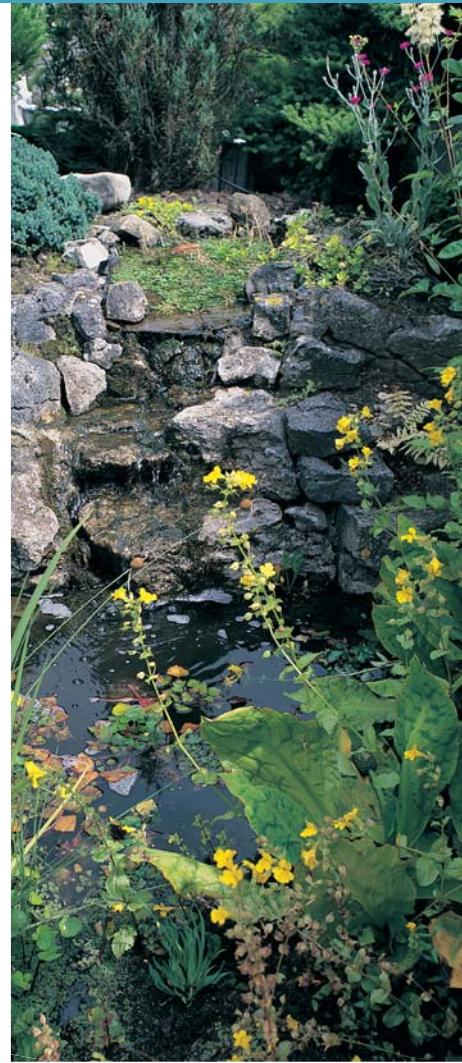
## A HAVEN WITHIN YOUR GARDEN

Natural ponds have become increasingly popular as we all become more aware of the environment around us and want to encourage wildlife into the garden. These ponds are not only truly beautiful, and very educational for children but you will also be helping the eco system of your whole garden... Did you know having a pool encourages frogs and toads, which eat slugs! You will also be visited by more birds and wildlife, some you may not have seen before.

To ensure a good balance in these pools you will need to ensure ample planting areas are built into the pool to support plants which in time will cover up to two thirds of the pool's surface area. Although these ponds will support some fish stocks, it is important to avoid fish such as Koi and Orfe. Fish should also be introduced very gradually as the plants grow and mature.

Over a period of time, as the new plants mature, along with the buildup of zooplankon such as Daphnia and naturally occurring helpful bacteria the pool will begin to balance and the water clear. It must be remembered that this could take up to eighteen months to achieve. However the end result can be magnificent, attracting a host of wildlife along with a splendid display of aquatic plants.

Usually these ponds do not require full filtration as described on the following pages, however they will benefit from being circulated by a pump to maintain oxygen levels. This assists in the maintenance of a healthy balance of helpful bacteria and avoids the water becoming stagnant.



### TIPS

**Design planting areas to support plants to cover two thirds of the pool.**

**Although filtration is not always necessary, a pump will help oxygenation.**

**Minimise fish stocks, avoiding Koi and Orfe, Introduce fish over a period of time.**

**Remove dead vegetation and leaves in the autumn.**

**The larger the pond, the easier it is to maintain a healthy balance.**

## NATIVE FISH



### Rudd

**A very active fish with red tipped fins. Will do best in larger wildlife ponds as they can breed quickly. Due to their active nature they can unsettle fish such as Koi if not given enough room.**



### Tench

**Great bottom feeders, being green in colour and rarely seen. They play an important part in a pond's ecosystem by foraging through the debris. Requires well planted ponds with plenty of cover.**



### Roach

**A good native fish for the wildlife pond growing to an average length of 20 cm. Capable of rapid breeding, the male fish can be identified by white spots in the spring. Should really only be kept in a sizable pond.**



### Minnow

**A fish growing up to 10cms. Ideal in small ponds. Will not uproot plants. Mid water insect feeder. Does best in shoals of 6 or more. Breeds rapidly where larger fish aren't eating its eggs. Ideal substitute for Orfe in a small pond.**



# Fish Ponds

SEE CHOOSING A FILTER P38

## FISH PONDS AND FILTRATION BASICS

For most people a pond is not complete until the addition of fish to add colour movement and interest. However fish ponds do require some form of filtration. Filtration does two important jobs. Firstly and most importantly it keeps the water healthy, and secondly if the correct package is chosen it will keep the water clear!

Therefore, choosing and installing a suitable filtration package for your pond is critical when planning a fishpond.

The size and capacity of the filter will depend on the pond volume and the anticipated stocking levels. To calculate your pond volume, refer to page 13, and for advice on choosing the size and type of filter, please refer to pages 13 and 38.

When deciding on a filter you will discover there are two popular types 'gravity return' and 'pressurised filters', each with their own benefits.



### GRAVITY RETURN FILTERS

**Filter outlet must be positioned higher than the point of return as water returns to the pond under the force of gravity.**

**Gravity return filters**, Water is pumped into the filter and returned to the pond under gravity. It is vital with gravity filters that the outlet is higher than the point of return, and for best results, use a short length of rigid pipe slanting slightly downwards towards the pond as illustrated. This type of filter is generally cheaper than the pressurised models for smaller ponds.

**Pressurised filters** They will cope with small to medium-sized garden ponds. Water is pumped into and exits under low pressure allowing the water to be pushed higher than the filter position. This provides flexibility in positioning and overcomes the problem of gravity return filters being higher than the water surface. Some models come with an easy cleaning system reducing maintenance time and effort.



### PRESSURISED FILTERS

**As the filter is pressurised the water leaves under pressure and may be delivered higher or lower in relation to the filter position.**

### TIPS

Remember to consider filtration position during the planning stage.

Gravity return filters should be as close to the point of return as possible.

Seek advice on the correct equipment from our staff.

Ensure hose and cable routes have been taken into consideration.



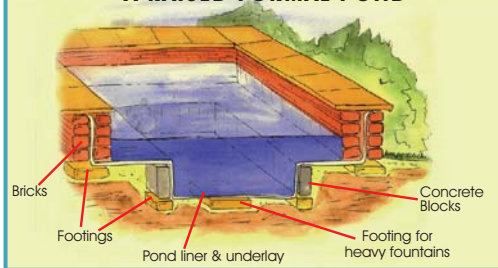
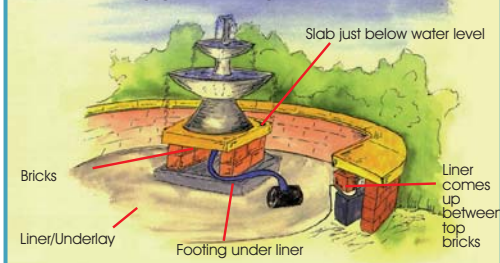
For larger ponds and koi ponds we stock a wide range of the latest state of the art specialist pump or gravity feed filters. Many systems now use screens to filter and flush out solids before they reach the biological part of the filter, reducing the loading on the filter and increasing the overall efficiency.

**Pump fed koi filters**, The water is pumped from the pond into the filter and returns to the pool under gravity.

**Gravity fed filters**, Pond water is drawn into the filter via gravity, then returned via a pump positioned in the last chamber of the filter.

The pipework involved with these filters is more complex. Please ask for advice from one of our experts for further information.



**A RAISED FORMAL POND****RAISED POOL WITH ROCKERY****POOL WITH ORNAMENT****RAISED PONDS**

Raised ponds can be either completely above ground or only partially raised. Partially raised ponds are more suitable for fish as they keep the temperature of the water more stable, particularly during the winter months.

Raised ponds often look particularly effective in formal gardens and have the added benefit of reducing the amount of excavation required and the quantity of soil needing to be removed from the site. Another important benefit is the safety factor provided by a raised pond when considering children and wheelchair users, as well as making the pool more accessible and workable for all.

Additional areas of consideration when planning a raised pond include adequate strength of construction of the walls and concealing a suitable filtration system. This is easier if the pond is only raised on three sides and soil is banked behind on the other, allowing scope for a waterfall flowing from the outlet of the filter. Alternatively, consider a pressurised filter, which can be hidden in a chamber next to the pond or an "in pool" filter, which are available for smaller ponds. Please seek advice or consult the filtration section of this manual (see page 36).

**TIPS ON RAISED PONDS:**

*Ensure the walls will support the weight of the pool.*

*Sandwich the liner between the last courses of bricks and up the cavity, this will hide the liner. (As shown)*

*Concrete blocks maybe used to form and shape planting shelves (see drawing).*

*Heavy fountains will need additional footings under the pool liner.*

**TIPS ON FORMAL PONDS**

*Careful measurements will be required to ensure the pool is square.*

*If circular, use a centre peg and string to create your shape.*

*Curved patio slabs can be purchased to create curves and circular shapes.*

*Filtration will need consideration.*

*Ensure ducting for cables is laid before paving surrounding areas.*

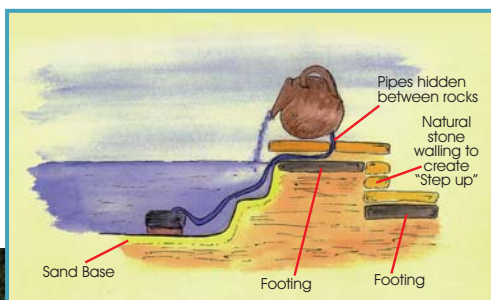
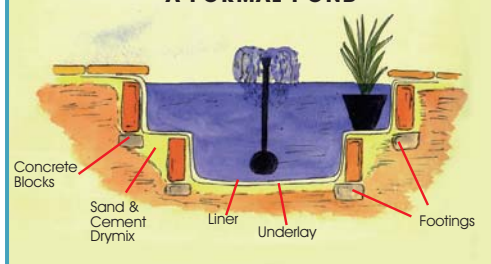
**FORMAL PONDS**

Formal ponds either raised or at ground level, are ideal on patios or lawned areas. Careful consideration should be taken in the design stages when choosing your edging method. When edging with slabs, it is advisable to position the slabs before excavation to create your pool template. This will also limit the number of slabs which require cutting. Crazy paving can provide an easy but attractive alternative especially on pools with curved edges. It is also possible to purchase a "round circle" of slabs from paving suppliers, which could create a perfect edge for a round pond!

Should you desire a heavy stone fountain in the pool, which looks effective in many formal situations, it may be necessary to form a concrete footing in the base of the excavation to support the weight of the fountain and its base before installing the liner.

**JUG FEATURE**

Installed with a submersible pool pump to gently pour water into the pond, circulating and oxygenating the water effectively.

**A FORMAL POND**

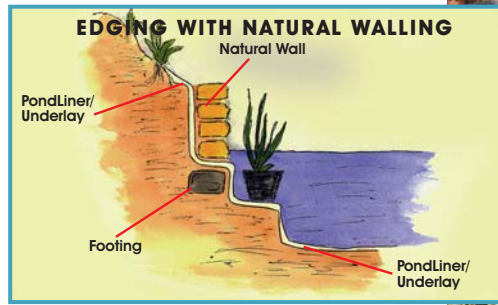


## INFORMAL PONDS

When constructing an informal pond your imagination and budget are the only real limiting factors whilst adhering to the basic rules of pond design already covered.

Informal pools give limitless scope to incorporate many different design features and textures into your water garden. Many different man made and natural materials can be used in the construction of your feature including decking, stone, walling, cobbles and sleepers etc.

In this example we show the use of a waterfall to link pools.

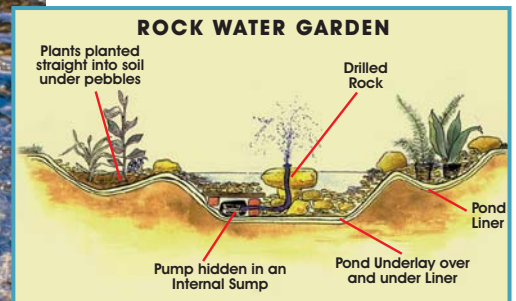
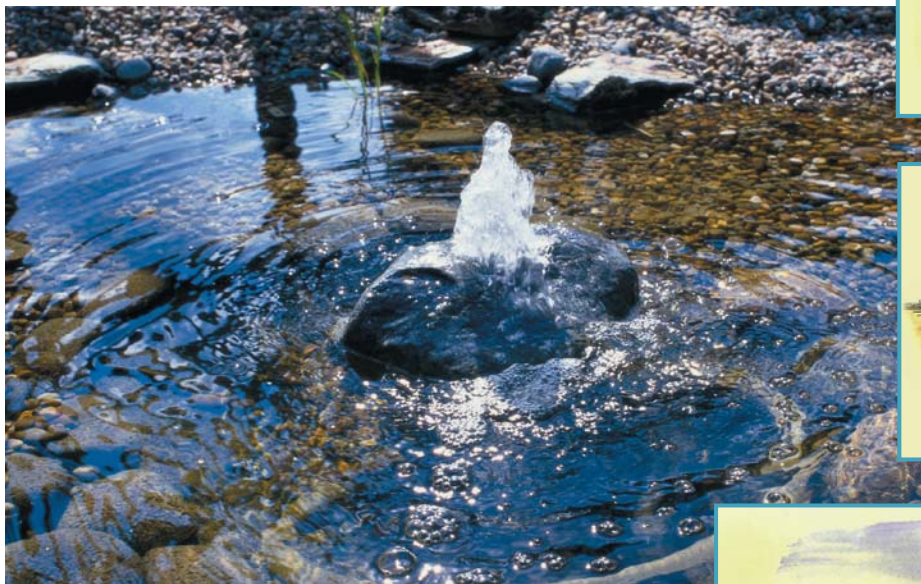
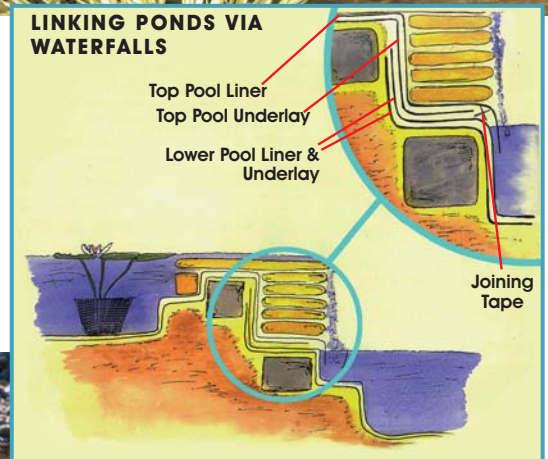


## PEBBLES AND ROCK PONDS

The use of pebbles and gravel in gardens is very popular and this is no exception when it comes to water gardens, with the glistening wet stones adding another dimension to your creation. The photograph shows the result of using gravel and pebbles combined with planting and a beautiful feature, with water bubbling gently from it.

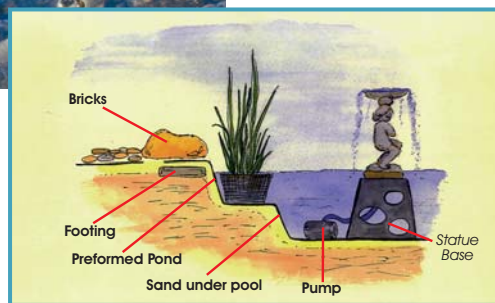
Plants can be placed in suitable pots straight into the gravel, or soil pockets can be hidden under the gravel so that the plants are not restricted in growth. The pump and hoses can be hidden under stones. Remember the pump should be housed in an accessible reservoir chamber as illustrated.

*Important:* - A heavy-duty liner should always be used for all pebble & gravel pools.



## ADDING A FEATURE FOUNTAIN

Here we show a simple illustration of how you would position a fountain in a pool. It must be remembered that heavy fountains may need additional support under the liner, this can be created by installing a footing under the liner when first building the pond (see overleaf) or if already constructed use a large slab to distributed the weight (it is best to use some old liner or underlay between the slab and pond liner)

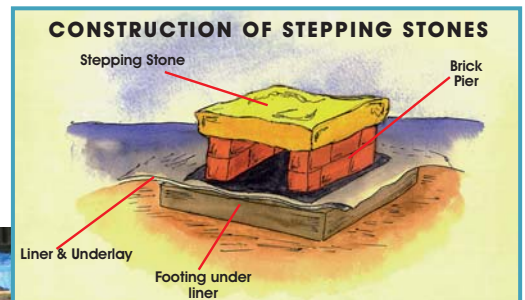
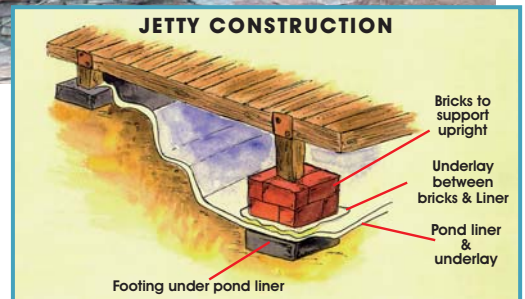
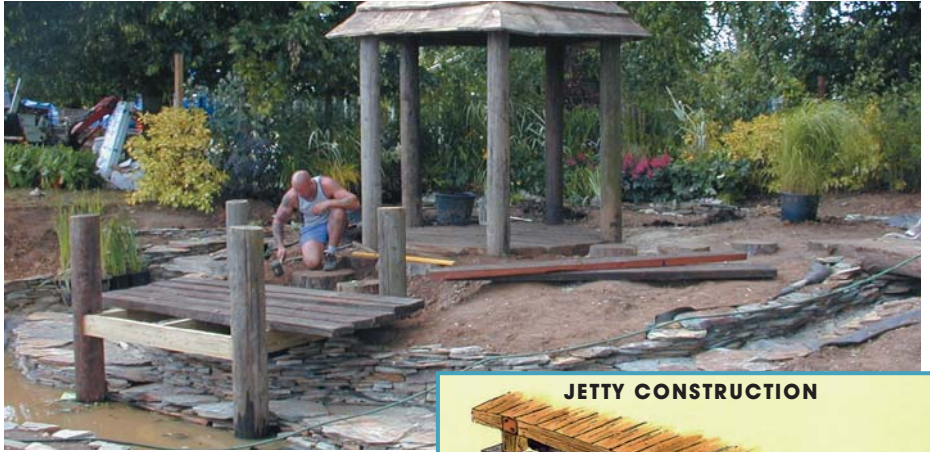


# Walking on water!

## BRIDGES, STEPPING STONES & JETTIES

Sometimes what really makes a pond impressive is one or two features that are unusual. Why not incorporate a bridge or some stepping stones, or even build a small jetty.

Thoughts about such a feature needs to be put in at the planning stage as some of these features will need extra footings (support) under the pond liner. This will mean that all the weight will be taken by a concrete pad under the liner avoiding any chance of subsidence. Even small bridges should have concrete bases on either side of the pond to sit on firmly.



### CONSTRUCTION TIPS

- 1 When constructing bridges, jetties or stepping stones you will need a footing under the liner.
- 2 After you have excavated your pool, work out where you will need the footings.
- 3 Dig out another 15cm deep area the size of the stepping stone, fountain base or about 45cm square for a jetty support, carefully calculating the position of the footing.
- 4 Fill and level these holes with concrete (3 sand/gravel to 1 cement).
- 5 Leave for at least 24 hours before placing underlay and liner on top. (Protect from frost while cement sets)
- 6 Position another piece of underlay above the pond liner and footings.
- 7 Build up with brickwork, for stepping-stones take the brickwork up to water surface level, and then place your stepping stone on top.
- 8 With a jetty you will only require enough bricks to brace the upright wooden leg.
- 9 For fountain plinths, take the brickwork up to about 15cm below the water surface level and place a slab for the fountain to sit on. This will allow only the feature to be visible.



# Are you on the level?

Following these basic tips will assist you in ensuring your pond is installed level. This avoids exposed pond lining, protecting it from sunlight damage, as well as making your pond look more attractive.

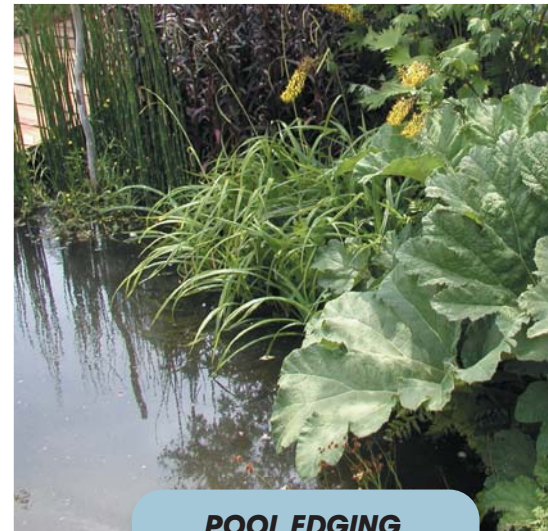
## PRE-FORMED PONDS

After excavation, cover the base of the hole with about 5cm of sand and level out, position the pond on the sand and place a spirit level across the top lips of the pond, reposition and add sand as necessary to achieve a level pond. Gradually fill the pond while back filling the sides. Do check manufacturer's instructions for specific installation information.

## LINER POOLS

Once your pond is excavated you need to consider the edging method you're going to use.

For a basic or wildlife pool edge, simply knock a stake into the centre of the excavation (The stake will need to be at least 15cm deeper than the pool, so when it's knocked into the soil it won't move). Drive the stake in until the top is at the desired finished pool level.



### POOL EDGING

**Decide on edging method before starting excavation.**

**Footings are essential for most edging, use ample concrete and a strong 3/1 sand cement mix.**

**Where the liner may come in contact with the footings or walling sandwich the liner with underlay for protection.**

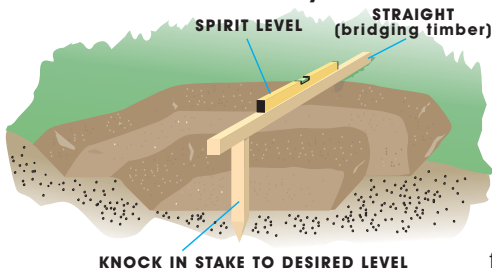
**Any cement work which will come into contact with water, should be treated to neutralise the lime. (Please ask in store for advice)**

**Hide ducting for all cables and pipes into the edging, a couple of spare ducts could be also very useful in the future.**

**Any cement work, which falls into the pool during construction, must be removed.**

**Always do a complete water change a few days after any cement work on a new pond before introducing any plant or fish life.**

### How to ensure the top edge is level all the way round



Now simply position a length of straight timber across from the stake to the side.

Position a spirit level on the straight timber. Then work your way around the pond removing or building up the edge, creating a perfect level all the way around.

Should you wish to build a more complex edging, you will need to lay footings. These must be laid level and at least 10-15cm deep.

To achieve this, firstly position a central stake as above, but this time the top should be at the finished level of the footing. Now take your straight (bridging) timber from the central stake to where the

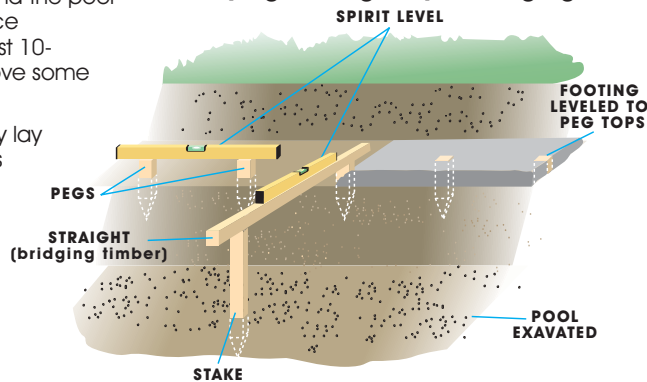
footing is going to be laid on the side. Take a peg approx. 30cm long and partially knock it into the soil. Then place the bridging timber across and check the level and if

required continue to knock the peg in further until the bridging timber is level. Carry this on around the pool placing pegs every 50-100cm apart. Once completed ensure all the pegs are at least 10-15cm proud of the soil, if necessary remove some more soil around the pegs.

Once these pegs are all in position, simply lay the footings to the top of the peg and this will leave you a perfect level footing all round your pool.

Note: With all ponds, you must not place heavy edging materials around the pond for at least a week, to allow the pond to settle.

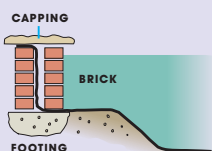
### Laying footing for pool edging



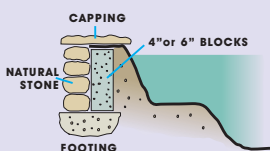
**HOWEVER much planning goes into creating a pond, poor edging can spoil the finished effect and look unsightly, as well as possibly leaving liners exposed to direct sunlight. This can cause the liner to perish, hence shortening its life expectancy and allowing it to become more vulnerable to accidental damage.**

**PLEASE NOTE:**  
The examples with flexible liners do not show an underlay although use of one is highly recommended

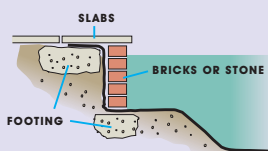
#### Formal Raised



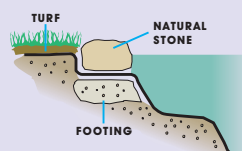
#### Informal Raised



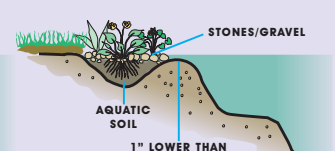
#### Formal



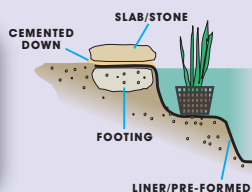
#### Informal



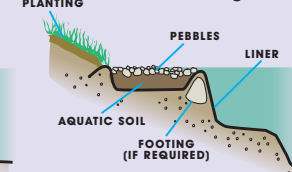
#### Wildlife



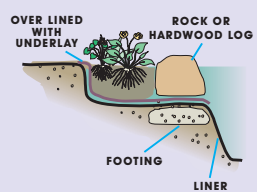
#### Basic Edging



#### Beach/Planting Area



#### Informal Planting Area



# Suggested Layout of Equipment

## NOW THIS IS IMPORTANT!

Below is a basic layout of a pond, showing an example of how equipment, cables, and hoses may be set out.

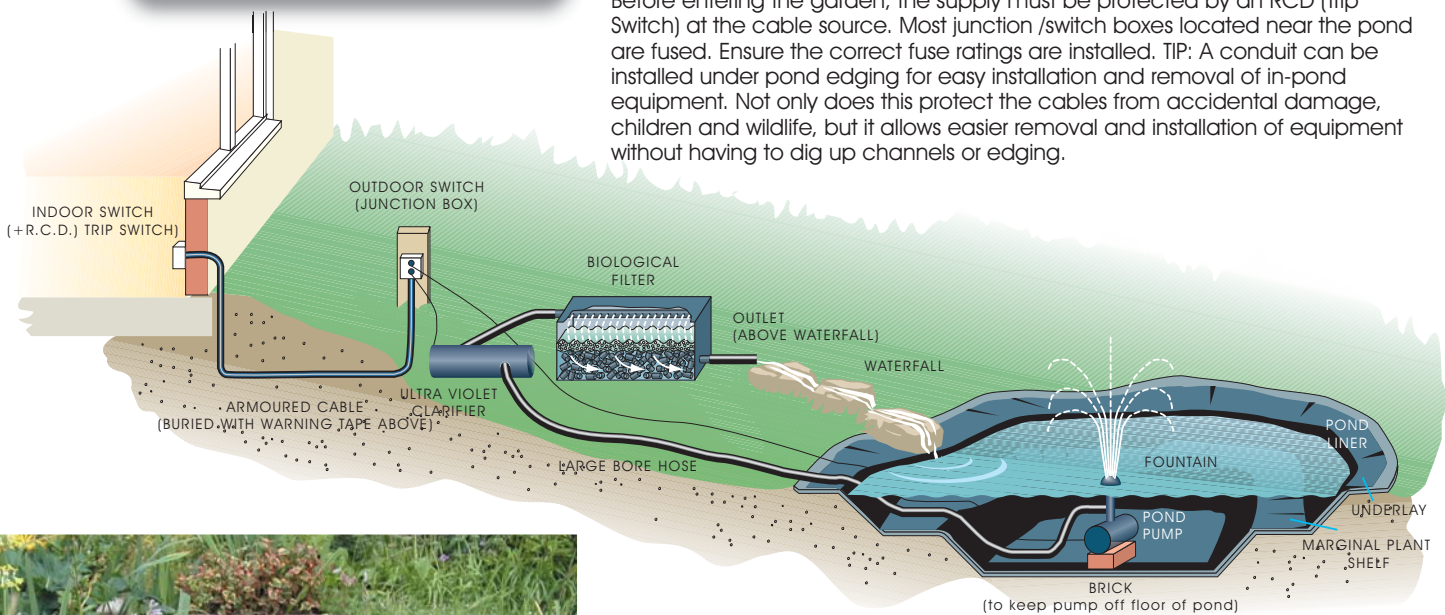
The electrics are critical and particular care should be taken to use the correct equipment. We advise seeking professional advice from a qualified electrician. An armoured cable should be installed (with a warning tape above if buried) to take power from a 13 amp source to a suitable junction switch box that is securely fixed above ground level next to the pool.

Before entering the garden, the supply must be protected by an RCD (Trip Switch) at the cable source. Most junction /switch boxes located near the pond are fused. Ensure the correct fuse ratings are installed. TIP: A conduit can be installed under pond edging for easy installation and removal of in-pond equipment. Not only does this protect the cables from accidental damage, children and wildlife, but it allows easier removal and installation of equipment without having to dig up channels or edging.



World of Water advise that a qualified electrician is consulted prior to installation of electrical equipment in, on or near water or ponds.

Visit [www.niceic.org.uk](http://www.niceic.org.uk)



Pipe work should be accessible while being buried to avoid damage and looking unsightly. (Hoses vary in strength - burying too deep may cause crushing).

It is recommended not to concrete pipes in. If they need to go through or under pond edging or a path, it is an excellent idea to sleeve the hose through a larger conduit, allowing easier access for replacement or repairs.

To achieve the maximum flow from your equipment, plan the shortest route for hoses while ensuring the correct size is used for your equipment - usually at least 1 inch (25mm) for a mid-range pump.

When considering positioning of equipment, always consult the suppliers instructions, and if required consult an expert for further advice. However some basic rules should be applied:

### PUTTING IT ALL TOGETHER

**Do not concrete in cables or hose, as access may be required in the future.**

**Always ensure suitable underlay protection is used.**

**Plan & install all electrical cabling before completing the project to avoid having to lift any freshly laid edging.**

**If digging in filter or waterfall hoses protect them from crushing.**

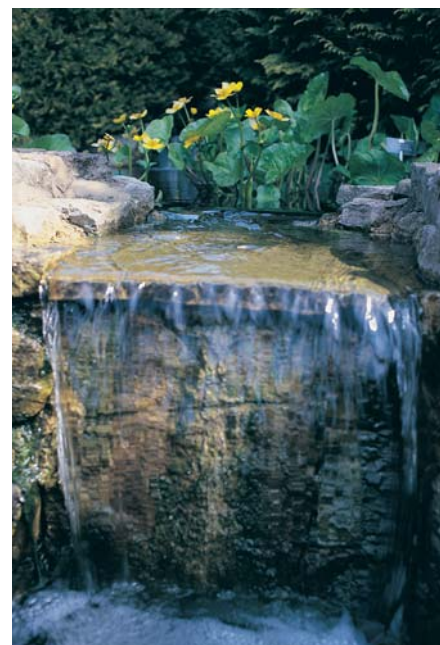
**Plan the routes for cables & hoses to leave the pond concealed.**

**Gravity return filter outlets need to be positioned as close as possible to the final point of return.**

**Ensure all electrical equipment is positioned to avoid accidental damage.**

**Follow the guides throughout this manual for individual product groups.**

- **Pumps should be positioned to allow easy access for maintenance**
- **Pay attention to filter location (gravity return filters should be positioned as close as possible to the return point, with a short declining rigid pipe)**
- **Ultra violet clarifiers, although designed for outdoor use, are best positioned in a protected and easily accessible place. Do not wrap in plastic**



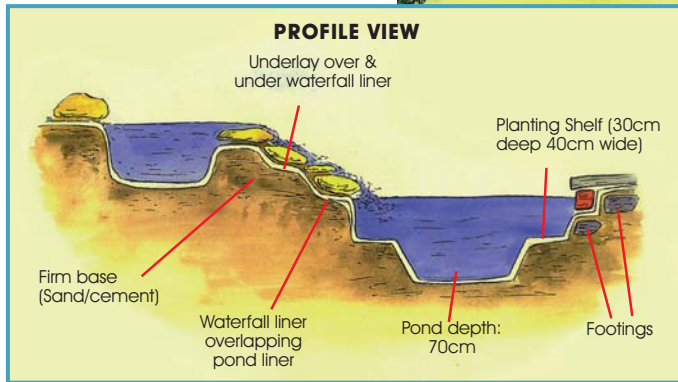
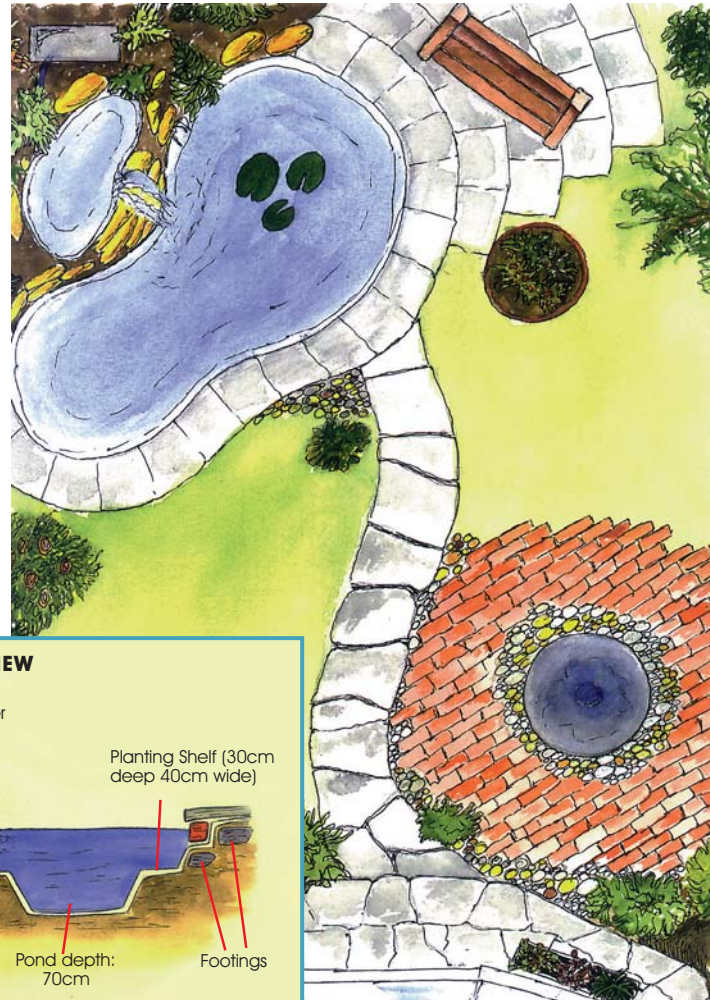
# The final planning stage

Now you have considered all the key factors affecting the style and position for your desired pond. You have consulted one of our experts about equipment and any additional advice required. You should now be ready to sketch out your plans.

## DRAW A GARDEN PLAN

The best way to achieve this is to draw out a scaled plan of the main area of your garden on some graph paper. This should include paths, trees, shrubs and any other permanent features with some basic contour lines showing slopes etc. Then, on some tracing paper overlaid on your plan, you can try various ideas for the proposed water garden and easily see which will be best suited. Try different shapes and positions around the garden, remembering to consider view points, sunlight levels, overhanging trees and all the other factors already covered previously.

When you are happy with your sketches, it is worth marking out the proposed pool in the garden using a rope or hose. Then walk around your garden and check the overall impact from all desired viewpoints. When you are completely satisfied with the general shape and location of the proposed pond, it can prove helpful to draw a more detailed plan of the actual pond including pond depth, planting areas, edging methods, filtration siting and routes for electric cables and hoses.



## Pond volume... You need to know!

To help you choose the correct equipment and for future pond husbandry, it is vital you know the correct volume of your pond.

If you have chosen a pre-formed pond the volume will be indicated on the relevant pages. Please make a note of it.

Average length	x	Average width	x	Average depth	x	Factor	=	Volume
metres	x	metres	x	metres	x	1,000	=	litres
feet	x	feet	x	feet	x	6.25	=	gallons

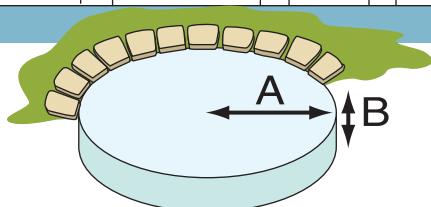
(If you have adjoining ponds repeat formula and add together for total volume)

### Example:

Average length	x	Average width	x	Average depth	x	Factor	=	Volume
<b>3</b> metres	x	<b>2</b> metres	x	<b>0.5</b> metres	x	1,000	=	<b>3,000</b> litres
<b>9.9</b> feet	x	<b>6.6</b> feet	x	<b>1.65</b> feet	x	6.25	=	<b>674</b> gallons

To calculate the volume of a circular pond (Pi x radius<sup>2</sup>):

Radius (A)	x	Radius (A)	x	3.14	x	Ave.depth (B)	x	Factor	=	Volume
metres	x	metres	x	3.14	x	metres	x	1,000	=	litres
feet	x	feet	x	3.14	x	feet	x	6.25	=	gallons



### CHECK LIST

- Position: Sun for at least half the day.**
- Avoid overhanging trees.**
- Consider power supply and accessibility of water.**
- Create sufficient planting areas.**
- Depth at least 45cm for general ponds, approx 1m for koi.**
- Good all-round access.**
- Enough room for waterfalls and filtration.**
- Avoid boggy wet areas.**
- Check there are no underground services etc.**
- Consider pond safety.**



# A Guide to Planting

Not only do aquatic plants enhance the beauty of your pond, but they also play an important role in maintaining the balance of the pond and in keeping it clear. Plants absorb nutrients and reduce light levels in the water, which could otherwise promote the growth of algae, which causes green water. Plants will also provide shelter for fish and natural material on which they might spawn.

## CHOOSING THE RIGHT PLANTS FOR YOUR POND

It is important in any pond or feature to have a good balance of plants that offer a variety of colour and foliage at different times of the year for your enjoyment, and the plants required for a successful ecosystem for the pond.

Research the plants you choose as you would for the garden. All the plants at World of Water are clearly labelled to show the height they attain, their spread and the depth of water they prefer. Mature specimens can be seen in our show gardens and members of our staff will happily answer any questions.

You will find that some plants are very vigorous and are only suitable for larger ponds, and some slower growing plants are best suited for the smaller feature. However if you need quick cover on any pond you can always add some fast growing, spreading plants to offer shade. Once your chosen plants have matured simply remove them or trim the excess back and transfer to the compost heap. By removing or trimming the plant, excess nutrients are being harvested from the pond, helping to keep the pond balanced and healthy.

Always remember to take into account the potential height of the plant, as some grasses and rushes can grow very tall and would obscure a pond if poorly positioned.

**The table here offers a rough guide to the number of plants you may require to start a successful pond. Simply work out the approximate surface area of your pond (e.g. A pond 4m x 2m = 8m square.)**

Plants	Pond Surface Area Square Metre					
	2m <sup>2</sup>	4m <sup>2</sup>	6m <sup>2</sup>	8m <sup>2</sup>	10m <sup>2</sup>	12m <sup>2</sup>
Water Lilies	1	2	3	3	4	5
Deep Marginal Plants	1	2	2	5	6	8
Marginal Plants	8	14	18	24	30	36
Oxygenating Plants (bunches)	15	30	45	60	75	90
Floating Plants	2	3	4	6	8	12

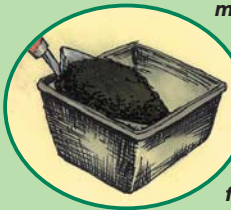
### WHY PLANTS?

- 1 They improve the overall look of a pond.
- 2 They can produce Oxygen and absorb Carbon Dioxide.
- 3 Plants offer shade for fish and reduce light levels, which reduce algae levels.
- 4 Good planting absorbs excess nutrients from the water, which Algae would otherwise thrive on.
- 5 Plant life will attract an array of wildlife to the pond, creating your own mini-wildlife reserve!
- 6 Plants offer fish great spawning sites and the fry protection and food.



## How to Plant Aquatic Baskets

**CONSIDER basket size - Tall marginals will need larger baskets to avoid being blown over.**



**Using a suitably sized basket, line with a hessian or foam liner - Fine Mesh baskets do not need to be lined although it is beneficial.**

**FILL THE BASKET about two thirds full with aquatic soil.**

**MAKE A HOLE in the soil for the plant.**

**GENTLY TAP the pot your new plant is in and loosen any roots protruding from the bottom.**

**IT SHOULD then easily lift out of its original pot.**



**LOOSEN the root ball gently.**

**PLACE the new plant into the prepared basket.**

**GENTLY surround the plant roots with the soil in the basket.**

**NOW top the basket up to about 4cm from the top with more soil.**

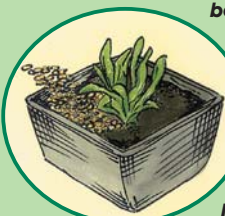
**REMEMBER you will need to top the basket off later with gravel.**

**NOW water in the plant.**

**ENSURE you water gently.**

**Allow the soil to become saturated.**

**IF THE SOIL reduces down below about 6cm, top the basket up slightly with soil.**



**NOW top the basket off with gravel.**

**DO NOT use limestone gravel.**

**TAKE CARE not to damage the plant. Do not bury the plant's leaves.**

**NOW water in the plant again.**

**GENTLY lower the plant into its final position.**

**SOME lilies will need to be lowered to their final position over a period of a few weeks.**



# General Rules

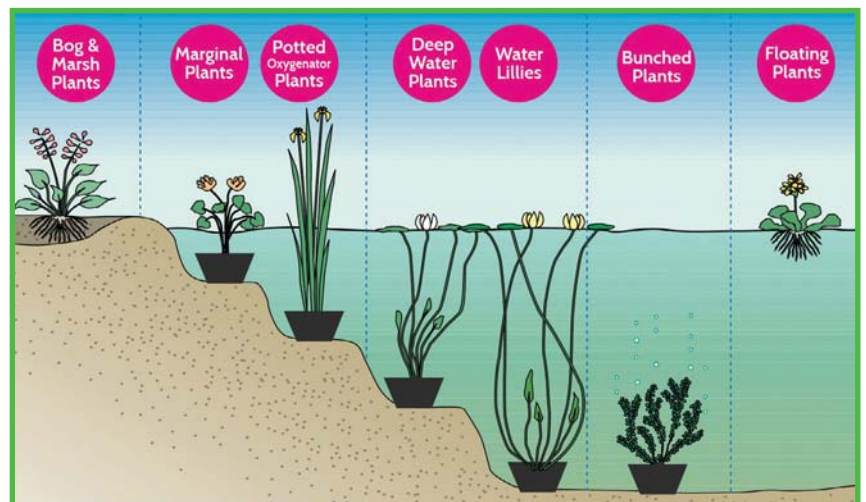
To avoid disappointment always use the correct soil and containers in your pond, as this will promote the growth and flowering of your plants.

Using general bedding compost could have potentially fatal effects on fish as it has high fertiliser content designed for quick release. Aquatic compost has a slow release fertilizer, thus avoiding pollution, as the plants will absorb the nutrients as they are released from the soil. The soil texture is also important; a heavy loam is best as a peat-based soil could simply float away!

Aquatic baskets have been designed with mesh to help retain the soil. The use of an additional hessian liner will further reduce any soil leaching. The hessian liner will rot in time but by then the root structure of the plant should hold the soil together. The roots will eventually grow through the mesh, absorbing natural nutrients from the pond.

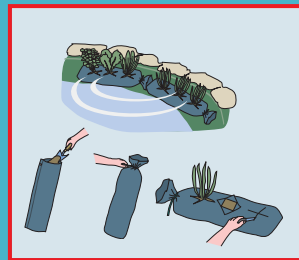
## POSITIONING

The following illustration shows the ideal planting zones for aquatic plants. It is important to follow this and the planting information label that comes with each plant to achieve optimum plant growth.



## Alternative Planting Solutions

### Pond Socks



### Floating Baskets

- Ideal for showing plants on pond surface making planting and easy maintenance
- They provide excellent soil containment and protect plants from fish



Planting...  
the key  
to a  
balanced  
pond

## Bog & Marsh Plants

Bog plants are ideal for planting areas where the soil remains wet but not submerged for example in the shallow areas of a wildlife pond. It is worth remembering most marginal plants will happily grow in these conditions, but bog plants will not do well on marginal shelves. These plants will add more colour, extend the flowering season around the pond and look great next to the traditional marginal plants

### HOW TO PLANT

These plants are ideally suited for planting directly into soil around the pond edge, maybe where the pond overflows, or in a purpose built bog garden made from surplus pond liner.

When they are to be placed in a beached area it may be desirable to plant into an aquatic container that is then directly buried into the gravel. Some bog garden plants can have their root balls wrapped in Hessian with some soil, then placed into the gravel.

Ensure that these plants are not planted in areas that are likely to be submerged during the winter. Take care to protect less hardy plants over winter by leaving their dead leaves on or covering with straw for protection, especially Gunnera.



New Bigger Range

Pond  
Plants

Online & In stores  
across the UK



### POND MOLLUSCS

Although ponds attract plenty of wildlife which find their way surprisingly quickly to a newly established pond, there are a selection of molluscs which you can add to the pond. Ramshorn and Trapdoor snails eat algae from the sides and bottom of the pond, while swan and painter mussels are filter feeders which filter algae out of the water.



*Painter mussel*





**Angelica archangelica**

Statuesque plant with large architectural foliage and round seed heads.

Depth: 0cm | Height: 250-300cm | Position: Sun / Part Shade  
Flowers: July - Aug - Sept | Growth Rate: Fast



**Astilbe red (False Goat's Beard)**

Dark green foliage, bright red plumed flowers. Grows better in moist shaded areas.

Depth: 0cm | Height: 60-80cm | Position: Sun / Part Shade  
Flowers: June - July - Aug | Growth Rate: Medium



**Darmera peltata (Indian Rhubarb)**

White or yellow coloured flowers blooming in spring before large round scalloped edges leaves appear

Depth: 0cm | Height: 60-90cm | Position: Sun / Part Shade  
Flowers: March - April | Growth Rate: Medium



**Fritillaria meleagris (Snake's Head Fritillary)**

This attractive spring bulb has attractive, checker-board, drooping purple or white flowers. Easily grown provided the soil does not become too dry.

Depth: 0cm | Height: 20-30cm | Position: Sun / Part Shade  
Flowers: April - May | Growth Rate: Slow



**Gunnera manicata (Giant Prickly Rhubarb)**

Very large leaves, stout prickly stems to a metre in diameter. Large green/red club shaped flowers.

Depth: 0cm | Height: 150-300cm | Position: Sun / Part Shade  
Flowers: July - Aug | Growth Rate: Fast



**Hosta 'Bressingham Blue'**

Striking blue leaves with white flowers standing elegantly above the leaves.

Depth: 0cm | Height: 30-50cm | Position: Part Shade  
Flowers: July - Aug | Growth Rate: Medium



**Ligularia den Desdemona**

Branched heads of large orange, daisy-like flowers with large round beetroot red foliage.

Depth: 0cm | Height: 60-90cm | Position: Sun / Part Shade  
Flowers: July - Aug - Sept | Growth Rate: Medium



**Primula denticulata**

The drum stick shaped flowers have small yellow centres.

Depth: 0cm | Height: 10-30cm | Position: Sun / Part Shade  
Flowers: March - April | Growth Rate: Slow



**Primula veris (Cowslip)**

Common native cowslip produces several clusters of small yellow flowers on 15cm tall stems.

Depth: 0cm | Height: 15-30cm | Position: Sun / Part Shade  
Flowers: April - May- June | Growth Rate: Slow



**Ramshorn snails**

Eats algae from the sides of the pond



**Swan mussels**

Can grow up to 17 x 9cm and are said to be excellent water filters



**Trapdoor snails**

Eats algae from the bottom of the pond.



# Marginal Plants

As the name suggests these plants grow along the poolside usually in aquatic planting baskets. These plants provide splashes of colour throughout the growing season. Certain plants, such as Veronica Beccabunga, will raft across the water offering shade for the fish, reducing sunlight levels and thus hindering the growth of algae. Many of the grasses are especially useful for removing excess nutrients from the water and have a wide range of variegated foliage to give colour throughout the season. Some plants, such as Caltha Palustris are ideal for an early display of colour. There are also excellent spreading plants such as Mimulus, which will quickly fill the top of a basket, making it a suitable companion for a tall plant, such as an attractive iris.

Careful thought should be put into the positioning of marginal plants, ideally placing the tall grasses, iris's and rushes at the back of the pond while keeping the plants which tend to spread and raft at the front of your display.

## HOW TO PLANT

These plants are generally sold either as immature plants in small pots or more mature plants in small aquatic baskets. It is recommended to replant all these into larger baskets. Plants such as tall Iris's and grasses will need a deep large basket as they are prone to blowing over in the wind, and these deep baskets will provide some counter balance against the wind and plenty of room for root growth. Spreading and rafting plants can be planted into shallower baskets, but remember they will need plenty of room for growth, so it is always worth while replanting regularly to ensure the best possible display.

In wildlife pools it may be possible to plant directly into a pre-made planting area (See Edging a Pool). Should you wish to contain the growth of these plants in such an area it may still be worth considering sinking the plant in a basket to limit its spread.



**Acorus Calamus (Sweet flag)**  
Dark green iris like foliage with a small, green, horn shaped bloom. It grows from a rhizome which runs across the ground.

Depth: 2-12cm | Height: 60-90cm | Position: Sun / Part Shade  
Flowers: June - July | Growth Rate: Medium



**Acorus Calamus 'Variegatus' (Variegated Sweet Flag)**  
As Acorus calamus but with green and cream vertical striped leaves.

Depth: 2-15cm | Height: 50-80cm | Position: Sun / Part Shade  
Flowers: June - July | Growth Rate: Medium



**Anemopsis californicum (Apache beads)**  
It has beautiful, white scented flowers and broad dark green leaves. The flowers and leaves can be dried for potpourri.

Depth: 0-15cm | Height: 15-40cm | Position: Sun / Part Shade  
Flowers: June - July - Aug | Growth Rate: Medium



**Butomus umbellatus (Flowering rush)**  
Pretty pink flowers in umbels rise above triangular leaves which turn red to dark green as they mature.

Depth: 3-25cm | Height: 60-100cm | Position: Full Sun  
Flowers: June - July | Growth Rate: Fast



**Caltha palustris (Marsh Marigold)**  
Once established it produces a mass of bright yellow flowers in early spring.

Depth: 0-15cm | Height: 30-50cm | Position: Sun / Part Shade  
Flowers: March - April | Growth Rate: Slow



**Caltha palustris alba (White Himalayan marigold)**  
A little less prolific flowering than caltha palustris, but once mature it always has a second flowering later in the year

Depth: 0-10cm | Height: 20-30cm | Position: Sun / Part Shade  
Flowers: March - April | Growth Rate: Slow



: Native to Britain



: Perfect for Bees



**Caltha palustris plena**  
(Double Marsh Marigold)

As *Caltha palustris*, but with beautiful, double yellow flowers in early spring. It was first discovered and cultivated in Austria in the late 16th century

Depth: 1-10cm | Height: 20-30cm | Position: Sun / Part Shade  
Flowers: March - April | Growth Rate: Slow



**Caltha palustris polypetala**  
(Giant king cup)

A much bolder plant than *Caltha palustris* with striking, large, single yellow flowers that appear in early spring and continue for longer.

Depth: 0-20cm | Height: 60-100cm | Position: Sun / Part Shade  
Flowers: April - May - June - July | Growth Rate: Medium



**Cardamine pratensis**  
(Cuckoo flower)

Mounds of pale green, ferny foliage with pale lilac blooms. It is one of the main food plants of the Orange Tip butterfly.

Depth: 1-10cm | Height: 20-30cm | Position: Sun / Part Shade  
Flowers: April - May - June | Growth Rate: Slow



**Carex acuta** (Slender-tufted sedge)

A tall, slender, tufted sedge that grows in rivers, streams and lakes throughout the British Isles

Depth: 0-15cm | Height: 60-90cm | Position: Sun / Part Shade  
Flowers: May - June - July - Aug | Growth Rate: Medium



**Carex pseudocyperus** (Cyperus sedge)

Bright green, grassy leaves with drooping, many flowered spikelets, popular with landscapers for native planting schemes to provide cover for wildfowl.

Depth: 0-20cm | Height: 60-90cm | Position: Sun / Part Shade  
Flowers: May - June - July - Aug | Growth Rate: Medium



**Carex riparia** (Greater pond sedge)

A coarse grass with broad leaves and brown spikelets. It is larger than the other sedges which makes it popular with landscapers

Depth: 0-20cm | Height: 60-120cm | Position: Sun / Part Shade  
Flowers: May - June | Growth Rate: Fast



**Colocasia rubra Black Magic**  
(Elephant Ear)

Stunning large dark leaves. It has a yellow flower but this is often hidden by the leaves.

Depth: 0cm | Height: 80-120cm | Position: Sun / Part Shade  
Flowers: May - June - July - Aug | Growth Rate: Medium



**Cotula coronopifolia** (Brass buttons)

A pretty, creeping plant with numerous, bright yellow flowers like buttons. This plant is an annual.

Depth: 0-10cm | Height: 15-20cm | Position: Sun / Part Shade  
Flowers: May - June - July - Aug - Sept | Growth Rate: Slow



**Equisetum hyemale** (Dutch rush)

This stunning, evergreen plant adds interest to the garden throughout the year.

Depth: 0-15cm | Height: 100-180cm | Position: Sun / Part Shade  
Flowers: June - July - Aug | Growth Rate: Medium



**Eupatorium cannabinum** (Hemp agrimony)

A tall, native marginal with bold, dome-shaped clusters of tiny, fluffy, dusty pink flower heads in late summer and early autumn.

Depth: 0-10cm | Height: 60-120cm | Position: Sun / Part Shade  
Flowers: July - Aug - Sept | Growth Rate: Fast



**Geum rivale** (Water avens)

This prolific flowering plant produces delicate nodding, bell-shaped, pinky-red flowers continuously from May through to September.

Depth: 0-8cm | Height: 30-50cm | Position: Sun / Part Shade  
Flowers: May - June - July - Aug - Sept | Growth Rate: Slow



**Glyceria maxima variegata**  
(Variegated reed sweet grass)

A relatively vigorous plant but with attractive pinkie-red striped grass foliage in Spring maturing to yellow & white later in the year. It is graced with purplish-green flowering panicles in late summer.

Depth: 3-25cm | Height: 30-60cm | Position: Sun / Part Shade  
Flowers: June - July - Aug | Growth Rate: Fast

# Marginal Plants



**Houttuynia cordata 'Chameleon'**  
(Harlequin plant)

This very popular, brightly coloured plant has red, yellow and green scented leaves.

Depth: 0-10cm | Height: 20-50cm | Position: Sun / Part Shade  
Flowers: May - June - July - Aug - Sept | Growth Rate: Medium



**Houttuynia cordata Plena**  
(Orange peel plant)

White flowers, made of numerous bracts, prolific May to September. The leaves have an attractive orange peel scent.

Depth: 0-10cm | Height: 20-60cm | Position: Sun / Part Shade  
Flowers: May - June - July - Aug - Sept | Growth Rate: Medium



**Hypericum tetrapterum**  
(Square-stalked St John's wort)

Small creeping perennial. Soft round leaves with yellow flowers in clusters

Depth: 0-5cm | Height: 25-30cm | Position: Sun / Part Shade  
Flowers: July - Aug - Sept | Growth Rate: Slow



**Iris louisiana 'Black Gamecock'**

As with all Louisiana iris, this has beautiful, large flowers. They have yellow and white petals with a green throat. As with all iris the tubers are harmful if eaten.

Depth: 0-20cm | Height: 50-70cm | Position: Sun / Part Shade  
Flowers: June - July | Growth Rate: Medium



**Iris louisiana 'Her Highness'**

Snow white flowers with just a hint of yellow. As with all iris the tubers are harmful if eaten.

Depth: 0-15cm | Height: 75-90cm | Position: Sun / Part Shade  
Flowers: June - July | Growth Rate: Medium



**Iris louisiana 'Pegaletta'**

It has striking purple flowers with a yellow throat. As with all Louisiana iris, the flowers are large & showy, typically 12cm in diameter. Iris tubers are harmful if eaten.

Depth: 0-20cm | Height: 70-90cm | Position: Full Sun  
Flowers: Aug - Sept | Growth Rate: Medium



**Iris louisiana 'Sea Wisp'**

This beautiful iris has large, delicate powder blue flowers with contrasting green foliage. As with all iris the tubers are harmful if eaten.

Depth: 0-20cm | Height: 80-100cm | Position: Sun / Part Shade  
Flowers: June - July | Growth Rate: Medium



**Iris pseudacorus (Yellow flag)**

The only native aquatic iris, it can be vigorous in boggy soil. It is the origin of the famous Royal French emblem, Fleur de lis.

Depth: 0-20cm | Height: 80-100cm | Position: Sun / Part Shade  
Flowers: June - July | Growth Rate: Fast



**Iris pseudacorus 'Alba'**

Broad green foliage and large creamy white flowers. The signal is etched in charcoal grey.

Depth: 0-20cm | Height: 80-100cm | Position: Full Sun  
Flowers: June - July | Growth Rate: Medium



**Iris robusta 'Gerald Darby'**

Large, mauve blue flowers with attractive purple stained leaves. New foliage is purple with purple to black flowers stems.

Depth: 0-15cm | Height: 60-90cm | Position: Sun / Part Shade  
Flowers: June - July | Growth Rate: Slow



**Iris versicolor (Poison flag)**

Narrow, erect foliage and branched stems bearing several bluish-purple flower with spotted yellow throat.

Depth: 0-15cm | Height: 60-90cm | Position: Sun / Part Shade  
Flowers: June - July | Growth Rate: Slow



**Iris versicolor 'Kermesina'**  
(Northern Blue Flag)

Handsome grey-green foliage sets off rich claret-purple flowers highlighted with white veining. As with all iris the tubers are harmful if eaten.

Depth: 0-15cm | Height: 60-90cm | Position: Sun / Part Shade  
Flowers: June - July | Growth Rate: Slow



: Native to Britain



: Perfect for Bees



**Juncus effusus spiralis** (Corkscrew rush)  
This evergreen is a must-have for any small pond. It has an unusual corkscrew twist to the cylindrical foliage.

Depth: 0-10cm | Height: 25-45cm | Position: Sun / Part Shade  
Flowers: June - July - Aug | Growth Rate: Slow



**Lobelia fulgens 'Queen Victoria'**  
The wonderful purplish-red foliage contrasts excellently with the brilliant red flowers. Harmful if eaten.

Depth: 0-15cm | Height: 80-100cm | Position: Sun / Part Shade  
Flowers: Aug - Sept | Growth Rate: Slow



**Lobelia siphilitica** (Great Blue lobelia)  
This showy perennial has lanceolate, light green leaves. The erect stems produce lavender-blue, tubular flowers crowded together on the upper part.

Depth: 0-5cm | Height: 60-90cm | Position: Sun / Part Shade  
Flowers: Aug - Sept | Growth Rate: Slow



**Luronium natans** (Floating Water-plantain)  
Unusual, rare native plant which has oval leaves that float on the water in shallow water, but can extend out to up to 4 m deep.

Depth: 1-40cm | Height: 0-2cm | Position: Full Sun  
Flowers: Aug - Sept | Growth Rate: Medium



**Lysichiton camtschatcensis** (White Skunk Cabbage)  
As *Lysichiton americanus* but with white flowers and slightly shorter growing. Harmful if eaten/skin & eye irritant.

Depth: 0-20cm | Height: 30-60cm | Position: Sun / Part Shade  
Flowers: April - May | Growth Rate: Slow



**Lysimachia nummularia** (Creeping Jenny)  
Excellent for ground cover and blending in the edge of a pond as it can grow on dry land and raft across the surface of the water.

Depth: 0-20cm | Height: 10-15cm | Position: Sun / Part Shade  
Flowers: June - July - Aug | Growth Rate: Medium



**Lysimachia thysiflora** (Tufted loosestrife)  
An erect form of *Lysimachia* bearing tall spires of tapering green leaves and many dense golden-yellow flowers in early summer.

Depth: 0-15cm | Height: 30-60cm | Position: Sun / Part Shade  
Flowers: June | Growth Rate: Fast



**Lythrum salicaria Robert** (Loosestrife)  
A stunning plant for a medium to large pond. Pink blooms can be seen from some distance, and is free flowering in summer.

Depth: 0-5cm | Height: 60-80cm | Position: Full Sun  
Flowers: July - Aug - Sept | Growth Rate: Medium



**Mazus reptans** (Chinese Marshflower)  
A low creeping marginal that forms dense mats of blue flowers prolifically throughout the summer.

Depth: 0-5cm | Height: 2-5cm | Position: Sun / Part Shade  
Flowers: May - June - July - Aug | Growth Rate: Slow



**Mentha aquatica** (Water Mint)  
A strong mint scented herb, covered with pinkish lilac flower heads. It used to be grown for its essential oils.

Depth: 0-20cm | Height: 30-60cm | Position: Sun / Part Shade  
Flowers: July - Aug - Sept - Oct | Growth Rate: Fast



**Mentha cervina** (Water spearmint)  
Aromatic plant covered with lilac flower heads. It has a spearmint smell.

Depth: 0-5cm | Height: 30-40cm | Position: Sun / Part Shade  
Flowers: July - Aug - Sept | Growth Rate: Fast



**Mentha pulegium** (Pennyroyal Pudding grass)  
A creeping variety with small leaves and, as member of the *Mentha* family, it has a minty smell.

Depth: 0-5cm | Height: 5-30cm | Position: Sun / Part Shade  
Flowers: July - Aug - Sept - Oct | Growth Rate: Fast

# Marginal Plants



## **Menyanthes trifoliata** (Bog Bean)

A rambling plant with trifoliolate olivgreen foliage that creeps over the surface of the water

Depth: 0-20cm | Height: 20-30cm | Position: Sun / Part Shade  
Flowers: April - May - June | Growth Rate: Fast



## **Mimulus guttatus** (Common Monkeyflower)

Numerous bright yellow flowers with small reddish spots throughout the summer make it a popular choice.

Depth: 0-10cm | Height: 30-50cm | Position: Full Sun  
Flowers: June - July - Aug | Growth Rate: Fast



## **Mimulus ringens** (Lavender musk)

Longer & narrower leaves than the other Mimulus varieties with small violet-blue flowers on tall stems. A native of eastern and central North America

Depth: 0-15cm | Height: 40-60cm | Position: Full Sun  
Flowers: July - Aug | Growth Rate: Medium



## **Myosotis scorpioides** (Water Forget-me-not)

This delicate little native plant has numerous clusters of long flowering, small blue flowers which attract abundant pollinators throughout the summer.

Depth: 0-20cm | Height: 20-30cm | Position: Sun / Part Shade  
Flowers: May - June - July - Aug - Sept | Growth Rate: Fast



## **Myosotis scorpioides 'Snowflakes'**

(White water forget-me-not)

White flowers on green leaves.

Depth: 0-20cm | Height: 20-30cm | Position: Sun / Part Shade  
Flowers: May - June - July - Aug - Sept | Growth Rate: Fast



## **Myosotis scorpioides variegata**

(Variegated water forget-me-not)

Blue flowers surmount striking green and white variegated leaves

Depth: 0-20cm | Height: 20-30cm | Position: Sun / Part Shade  
Flowers: May - June - July - Aug - Sept | Growth Rate: Medium



## **Oenanthe javanica 'Flamingo'**

(Variegated water dropwort)

Pink, white & green tricolour spring foliage, maturing to a darker green & pink. Tiny, creamy white flowers in umbels appear in mid-summer.

Depth: 0-12cm | Height: 30-40cm | Position: Sun / Part Shade  
Flowers: July - Aug | Growth Rate: Fast



## **Persicaria bistorta** (Adderwort)

Attractive, prominently veined, ovate leaves have poker shaped, bottle brush like mauve pink flowers rising above them.

Depth: 0-15cm | Height: 30-80cm | Position: Sun / Part Shade  
Flowers: July - Aug | Growth Rate: Medium



## **Phalaris arundinacea var picta**

(Gardener's Garters)

An attractive grass type aquatic with narrow leaves that are boldly striped with white pale and dark green.

Depth: 0-15cm | Height: 60-90cm | Position: Sun / Part Shade  
Flowers: July - Aug - Sept | Growth Rate: Fast



## **Pontederia cordata** (Pickerel Weed)

Heart shaped green leaves with clusters of blue flowers borne on a spike. A tall late flowering structural plant.

Depth: 10-20cm | Height: 70-90cm | Position: Sun / Part Shade  
Flowers: July | Growth Rate: Medium



## **Pontederia cordata 'alba'**

(White pickerel weed)

Shorter than Pontederia cordata, it is a late flowering, structural plant with heart shaped green leaves with clusters of white flowers.

Depth: 10-20cm | Height: 50-70cm | Position: Sun / Part Shade  
Flowers: July - Aug - Sept | Growth Rate: Medium



## **Pontederia cordata lanceolata**

(Giant pickerel weed)

As Pontederia cordata but much taller, with longer flower spikes. It is free flowering and makes an excellent addition to any pond.

Depth: 10-20cm | Height: 90-120cm | Position: Sun / Part Shade  
Flowers: July - Aug | Growth Rate: Medium



: Native to Britain



: Perfect for Bees



**Potentilla palustris** (Marsh Cinquefoil)  
Pretty, sharply jagged toothed leaves divided into leaflets. The stem is a reddish brown from which the red purple flowers extend.

Depth: 0-10cm | Height: 30-50cm | Position: Sun / Part Shade  
Flowers: June - July - Aug - Sept | Growth Rate: Medium



**Ranunculus acris Flore Pleno**  
(Yellow batchelor's buttons)  
Masses of small yellow tight double button-like flowers are produced on almost leafless stems.

Depth: 0-10cm | Height: 25-30cm | Position: Sun / Part Shade  
Flowers: June - July | Growth Rate: Medium



**Rorripa nasturtium aquaticum**  
(Water Cress)

Dark green foliage with small, white flowers. Commonly called watercress.

Depth: 0-10cm | Height: 15-60cm | Position: Sun / Part Shade  
Flowers: May - June - July - Aug | Growth Rate: Fast



**Sagittaria sagittifolia** (Arrowhead)

Sagittaria sagittifolia Long arrow-shaped leaves. White flowers with dark purple almost black centres.

Depth: 2-20cm | Height: 50-70cm | Position: Sun / Part Shade  
Flowers: July - Aug - Sept | Growth Rate: Medium



**Scirpus lacustris tab Zebrinus 'Zebrinus'**  
(Zebra Rush)

A striking plant standing erect and over 1 m tall. Striking green and white markings in horizontal bands

Depth: 5-30cm | Height: 75-110cm | Position: Sun / Part Shade  
Flowers: June - July | Growth Rate: Fast



**Stachys palustris** (Marsh woundwort)

This free-flowering plant is covered in bumble bee attracting spikes of bright purple flowers all summer. Good for medium or large ponds.

Depth: 1-15cm | Height: 60-120cm | Position: Sun / Part Shade  
Flowers: June - July - Aug - Sept | Growth Rate: Fast



**Thalia dealbata** (Powdery Alligator Flag)

A striking plant with large glaucous leaves and small purplish flowers held high on long thin stems.

Depth: 0-15cm | Height: 100-250cm | Position: Full Sun  
Flowers: June - July - Aug | Growth Rate: Medium



**Typha gracilis** (Medium Reedmace)

A smaller Typha, this is excellent for medium and large ponds. It has milk chocolate coloured seed heads.

Depth: 1-30cm | Height: 10-150cm | Position: Full Sun  
Flowers: July - Aug - Sept | Growth Rate: Fast



**Typha minima** (Miniature Bullrush)

A miniature version, this has delicate round milk chocolate coloured brown seed heads and is ideal for small ponds

Depth: 1-12cm | Height: 40-60cm | Position: Full sun  
Flowers: July - Aug - Sept | Growth Rate: Slow



**Veronica beccabunga** (Brookline)

Very prolific, succulent plant, having smooth, ovate leaves with clusters of blue flowers

Depth: 0-15cm | Height: 20-30cm | Position: Sun / Part Shade  
Flowers: May - June - July - Aug - Sept | Growth Rate: Fast



**Zantedechia aethiopica 'Crowborough'**  
(Arum Lily)

Glossy, arrow-shaped leaves, large, white arum flowers with a yellow spathe. Harmful if eaten and skin and eye irritant.

Depth: 0-20cm | Height: 60-90cm | Position: Full Sun  
Flowers: June - July - Aug | Growth Rate: Slow



**Zephyranthes candida**  
(White rain lily)

White, crocus - like flowers late summer/early autumn.

Depth: 0-2cm | Height: 15-30cm | Position: Sun / Part Shade  
Flowers: Aug - Sept | Growth Rate: Slow

# Water Lilies & Deep water plants

Water lilies are the most exquisite and colourful plants in the water garden and can give months of pleasure during the summer. It is also important not to forget that they play an important part in a pond ecosystem by shading the pond surface during the height of the summer. Other deepwater plants will also add interest and colour to some of the deep pond areas. Water Hawthorn, which flowers in the spring and autumn, makes a perfect partner for lilies giving you months of foliage cover and a beautiful display

A wonderful selection of lilies can be seen in our stores. The Pygmaea varieties are ideal for small ponds and features with their tiny leaves and delicate flowers. Where a large amount of cover is desired a Nymphaea Alba or Attraction will offer an economic solution, with one plant throwing a large pad of leaves and plenty of flowers. There is a huge range of lilies to suit all tastes, from the wonderful deep red of James Brydon to the impressive double flowered pink M. W Gonnere.

## HOW TO PLANT

Lilies need plenty of nutrition to thrive, and it is therefore important to replant them in a suitably large basket with fresh aquatic compost when they are first purchased. It is also possible to purchase lily fertilizer tablets to slip into the basket to help promote growth and flowering, particularly in new, nutrient poor ponds.

When planting a Lily the basket should be a reasonable size for the plant, lined with a hessian or foam liner then part filled with soil. Place the lily in the basket with the "crown" pointing upwards, and then fill the rest of the basket with soil ensuring the "eyes" are showing through. To finish off you will need to put some gravel on top to hold the soil down and to discourage fish from disturbing the lily. Don't just drop the plant into the depths, you will need to soak the basket first and then very slowly lower it down. Smaller and immature lilies may benefit from being positioned in shallower water to start with and gradually moved deeper over a couple of months. If you have Koi in your pond you will need to put larger stones on the top of the basket and use a hardy variety of lily. You would probably be best advised against putting a young lily into an established Koi pond as mature fish will probably destroy the plant before it has a chance to get established.



## DEEP WATER



### **Aponogeton Distachyos (Water Hawthorn)**

Free flowering for most of the year. Very hardy, if protected from frost, it will flower all winter. It dies back for a short time in August.

Depth: 10-90cm | Spread: 70-90cm | Position: Sun / Part Shade  
Flowers: Winter Flowering



### **Nuphar Lutea (Brandy Bottle)**

This is a vigorous plant that is tolerant of running water and heavy shade. It has a slightly alcoholic smell.

Depth: 50-100cm | Spread: 80-100cm | Position: Sun / Part Shade  
Flowers: June - July - Aug



### **Nymphaoides Peltata (Fringed Water Lily)**

A delicate little plant that has a profusion of yellow flowers on plantlets that float across the water surface.

Depth: 10-50cm | Spread: 10-50 | Position: Sun / Part Shade  
Flowers: June - July - Aug - Sept



### **Alba (White Water Lily)**

Britain's only native water lily has handsome, green foliage and white, but not prolific, flowers.

Depth: 50-150cm | Spread: 80-150cm | Position: Full Sun  
Flowers: June - July - Aug - Sept



### **Albatross (White Water Lily)**

As it matures, the rich purple foliage turns to an attractive green. The luxuriant flowers are brilliant white. Graceful & easy-to-grow.

Depth: 40-90cm | Spread: 60-100cm | Position: Full Sun  
Flowers: June - July - Aug - Sept



### **Almost Black (Red Water Lily)**

Flowers are an intense, plum colour, foliage has a striking bronze flush, turning green as it matures.

Depth: 30-80cm | Spread: 70-90cm | Position: Full Sun  
Flowers: June - July - Aug - Sept



### **Attraction (Red Water Lily)**

Once well established, the large, deep rose red booms of this popular, free flowering lily are flecked with white.

Depth: 40-100cm | Spread: 80-120cm | Position: Full Sun  
Flowers: June - July - Aug - Sept



### **Aurora (Variable Water Lily)**

The blooms of this lily start yellow, turning orange on the second day, then taking on a pinkish-red colour.

Depth: 30-60cm | Spread: 70-90cm | Position: Full Sun  
Flowers: June - July - Aug - Sept





: Native to Britain

**L** : large

**M** : medium

**S** : small

**D** : dwarf



**M**

**Barbara Dobbins (Yellow Water Lily)**

This prolific water lily has unusual yellow/peachy flowers with a pink flush. Leaves are mottled with maroon and turn dark green

Depth: 45-90cm | Spread: 70-100cm | Position: Full Sun  
Flowers: June - July - Aug - Sept



**M**

**Black Princess (Premium Red Water Lily)**

Highly sought after, this relatively new variety can be hard to find. The flower is dark red, almost black and never fails to impress.

Depth: 26-90cm | Spread: 70-80cm | Position: Full Sun  
Flowers: June - July - Aug - Sept



**L**

**Charles de Meurville (Red Water Lily)**

This highly attractive and prolific water lily is prized for its luxurious, wine coloured blooms, carried above handsome foliage.

Depth: 40-100cm | Spread: 100-150cm | Position: Full Sun  
Flowers: June - July - Aug - Sept



**L**

**Colonel A J Welch Water Lily**

Canary yellow flowers stand above the water. While not particularly free flowering, over time it can grow into water up to 3 metres.

Depth: 50-150cm | Spread: 70-100cm | Position: Full Sun  
Flowers: June - July - Aug - Sept



**L**

**Colorado**

Prized for its cactus shaped, salmon pink flowers which stand above the water. Continue to flower late in the season

Depth: 50-100cm | Spread: 70-120cm | Position: Full Sun  
Flowers: June - July - Aug - Sept



**L**

**Conqueror**

Free flowering with large, deep rose-red blooms. Slightly darker and larger flowers than N. Attraction.

Depth: 40-100cm | Spread: 80-100cm | Position: Full Sun  
Flowers: June - July - Aug - Sept



**L**

**Darwin 'Hollandia' (Pink Water Lily)**

This free flowering lily bears beautiful, large, soft pink double flowers.

Depth: 50-120cm | Spread: 100-150cm | Position: Full Sun  
Flowers: June - July - Aug - Sept - Oct



**M**

**Escarboucle (Premium Red Water Lily)**

Golden stamens and rich green foliage, has bright red petals, outer petals are a little paler.

Depth: 40-120cm | Spread: 120-150cm | Position: Full Sun  
Flowers: June - July - Aug - Sept

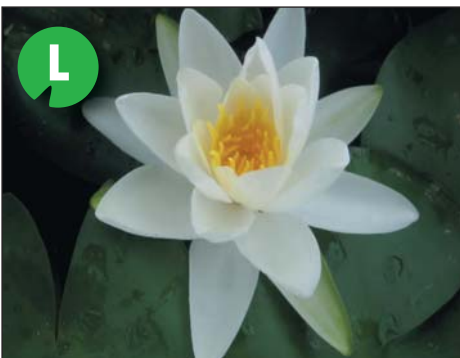


**M**

**Fabiola (Pink Red Water Lily)**

A strikingly pretty water lily whose distinctively rounded pink petals are progressively lighter at the outer edges.

Depth: 25-90cm | Spread: 70-90cm | Position: Full Sun  
Flowers: June - July - Aug - Sept

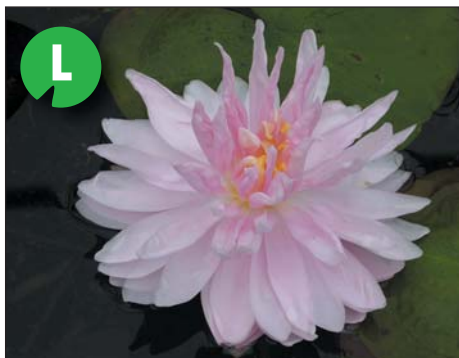


**L**

**Gladsoniana (White Water Lily)**

An outstanding choice for a large ponds and lakes, this wonderfully showy, white water lily has impressively large blooms

Depth: 50-150cm | Spread: 90-180cm | Position: Full Sun  
Flowers: June - July - Aug - Sept



**L**

**Gloire de Temple Sur Lot (Pink Water Lily)**

The very unusual and attractive flower is often considered to be Marliac's ultimate hybrid

Depth: 60-90cm | Spread: 100-120cm | Position: Full Sun  
Flowers: June - July - Aug - Sept



**L**

**James Brydon (Red Water Lily)**

The cup shaped flowers of this enchanting water lily are a rich carmine red, and look very striking set against the foliage.

Depth: 30-90cm | Spread: 70-90cm | Position: Full Sun  
Flowers: June - July - Aug - Sept

## Water Lilies



M

**Joey Tomocik (Yellow Water Lily)**

Standing clear of the surrounding water, the deep lemon blooms of this graceful, free flowering water lily are very impressive.

Depth: 30-90cm | Spread: 75-100cm | Position: Full Sun  
Flowers: June - July - Aug - Sept



S

**Laydekeri Lilacea (Red Water Lily)**

A fragrant, free flowering lily with rose pink to magenta flowers surrounded by green leaves.

Depth: 30-60cm | Spread: 60-80cm | Position: Full Sun  
Flowers: June - July - Aug - Sept



M

**Lemon Mist (Yellow Water Lily)**

Surrounded by attractive, green foliage, the pale lemon blooms of this stately water lily are free flowering.

Depth: 45-90cm | Spread: 70-90cm | Position: Full Sun  
Flowers: June - July - Aug - Sept



M

**Madame Wilfron Gonnere (Pink Water Lily)**

The large, double, rose-pink blooms of this classic water lily are surrounded by elegant foliage.

Depth: 30-90cm | Spread: 75-100cm | Position: Full Sun  
Flowers: June - July - Aug - Sept



L

**Marliacea Carnea (Pink Water Lily)**

Free flowering and showy, the large blooms of this water lily are pale pink at the base of the petals changing to white at the tips.

Depth: 50-120cm | Spread: 80-100cm | Position: Full Sun  
Flowers: June - July - Aug - Sept

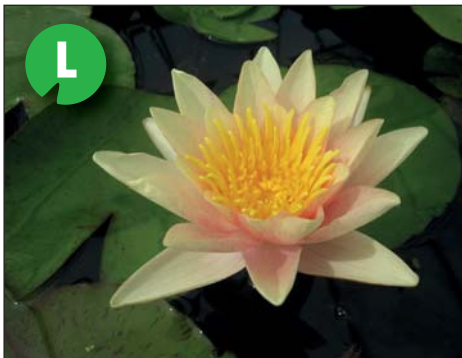


S

**Perry's Baby Red (Red Water Lily)**

Valued for its dainty, compact habit, this exceptionally pretty water lily has well-formed, prolific deep red blooms and elegant foliage.

Depth: 25-70cm | Spread: 60-80cm | Position: Full Sun  
Flowers: June - July - Aug - Sept



L

**Nymphaea Paul Hariot (Changeable Water Lily)**

Changeable Water Lily. The flowers of this beguiling water lily open apricot-yellow, and mature to a graceful orange-pink.

Depth: 30-80cm | Spread: 70-90cm | Position: Full Sun  
Flowers: July - Aug - Sept - Oct



L

**Marliacea Chromatella (Yellow Water Lily)**

The mottled, olive-green leaves with primrose-yellow blooms, which have bright golden stamens.

Depth: 30-90cm | Spread: 75-90cm | Position: Full Sun  
Flowers: June - July - Aug - Sept



M

**Masaniello (Red Water Lily)**

The cup shaped, showy blooms of this shapely water lily are a deep rose colour

Depth: 30-100cm | Spread: 70-90cm | Position: Full Sun  
Flowers: June - July - Aug - Sept



M

**Mayla (Pink Water Lily)**

Rich, fuchsia-pink blooms surrounded by elegant foliage.

Depth: 30-90cm | Spread: 60-90cm | Position: Full Sun  
Flowers: June - July - Aug - Sept



M

**Odorata Firecrest (Pink Water Lily)**

The fragrant flowers of this attractive water lily have petals that lie widely open, and red tipped stamens that stand erect.

Depth: 30-90cm | Spread: 60-90cm | Position: Full Sun  
Flowers: June - July - Aug - Sept



M

**Odorata Sulphurea (Yellow Water Lily)**

This tuberous-rooted variety has attractive, purple-blotched foliage and large, sulphur-yellow flowers.

Depth: 30-90cm | Spread: 80-100cm | Position: Full Sun  
Flowers: June - July - Aug - Sept

**L** : large

**M** : medium

**S** : small

**D** : dwarf



**Perry's Double White (White Water Lily)**  
Hybridized by the breeder Perry D. Slocum, this free flowering water lily has striking white flowers with a double layer of petals.

Depth: 30-80cm | Spread: 50-100cm | Position: Full Sun  
Flowers: June - July - Aug - Sept



**Perry's Fire Opal (Pink Water Lily)**  
The deep pink double flowers of this graceful water lily look superb against the fiery, multi coloured foliage

Depth: 25-60cm | Spread: 30-90cm | Position: Full Sun  
Flowers: June - July - Aug - Sept



**Pygmaea alba (Pygmy White Water Lily)**  
This enchanting water lily has miniature, cup-shaped white flowers and is the smallest of the white lilies. It is well suited to patio pools and small, shallow water features.

Depth: 20-50cm | Spread: 30-50cm | Position: Full Sun  
Flowers: June - July - Aug - Sept



**Pygmaea helvola (Pygmy Yellow Water Lily)**  
Prolific tiny star-shaped soft flowers. It has the smallest flowers of any hardy nymphaea

Depth: 15-40cm | Spread: 30-45cm | Position: Full Sun  
Flowers: June - July - Aug - Sept



**Pygmaea rubra (Pygmy Red Water Lily)**  
The flowers of this exquisite water lily open reddish-pink and darken gracefully as they age. Its compact habit makes it perfect for even the smallest ponds.

Depth: 15-40cm | Spread: 30-45cm | Position: Full Sun  
Flowers: June - July - Aug - Sept



**Rose Arey (Pink Water Lily)**  
The large, rose pink, stellate flowers of this charming water lily have slightly incurved petals.

Depth: 30-70cm | Spread: 50-90cm | Position: Full Sun  
Flowers: June - July - Aug - Sept



**Sirius (Red Water Lily)**

A robust lily that has abundant flowers. The flowers have an intense colour and pleasant fragrance.

Depth: 100-150cm | Spread: 40-100cm | Position: Full Sun  
Flowers: June - July - Aug - Sept



**Sioux (Variable Water Lily)**

Opening soft yellow, the beautifully proportioned flowers of this popular water lily mature to a reddish copper

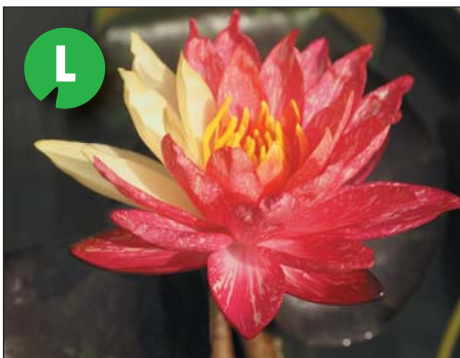
Depth: 30-80cm | Spread: 50-90cm | Position: Full Sun  
Flowers: June - July - Aug - Sept - Oct



**Sunny Pink (Pink Water Lily)**

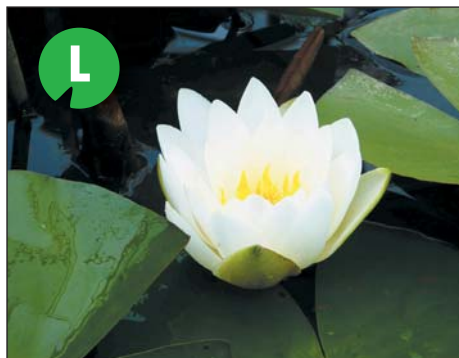
The peony shaped flowers of this lovely water lily are borne in a range of shades, from strong pink to yellow pink.

Depth: 30-100cm | Spread: 80-120cm | Position: Full Sun  
Flowers: June - July - Aug - Sept



**Wanvisa (Premium Changeable Water Lily)**  
The flowers of this unique variety are predominantly pink with cream flecks but sometimes they are part or all yellow.

Depth: 40-100cm | Spread: 100-150cm | Position: Full Sun  
Flowers: June - July - Aug - Sept



**White Sultan (White Water Lily)**

Pure white blooms are borne over a long season. The elegant green foliage provides an ideal backdrop. Suitable for medium to large ponds.

Depth: 30-60cm | Spread: 90-150cm | Position: Full Sun  
Flowers: June - July - Aug - Sept



**Xiafei (Red Water Lily)**

Introduced recently, this highly attractive, free flowering water lily has petite red blooms and green foliage, edged with scarlet.

Depth: 15-40cm | Spread: 30-45cm | Position: Full Sun  
Flowers: June - July - Aug - Sept

# Oxygenating plants

Considered one of the most important groups of plants in the pond. An oxygenator is the term applied to a wide variety of fast growing plants. Originally so named because it was thought that they give out oxygen constantly though like all plants they give out oxygen during the day and use it up at night. Their primary benefit in a pond is their ability to grow rapidly, using nutrients that would otherwise be used by algae such as blanketweed. By occasionally thinning the oxygenators in the pond, a good healthy balance can be maintained.

**Aquatic and marginal plants can grow vigorously. When thinning they should be disposed of carefully to avoid them colonizing and harming lakes, ponds, canals or natural waterways. Composting is considered the most suitable form of disposal.**

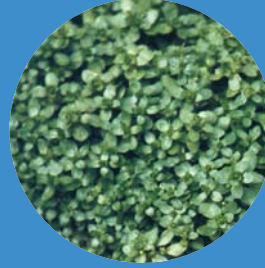
## HOW TO PLANT

You can buy oxygenators either in pots or as bunches. Potted oxygenators in small pots are best replanted into larger baskets and lowered into the water so that their foliage is coming through the water surface. Bunches with a weight which can be placed straight into the water or potted first before being placed on the deeper shelved areas of a pond. Potting gives the plant access to nutrients which improves growth.

## FLOATING PLANTS

A simple way to achieve extra shading. You will find a number of floating plants available in our stores. It must be noted that a few of them will only survive one season in this country as they are imported from warmer climates, but they should spread during the summer making a good investment. Alternatively there are some native floating plants such as the popular Water Soldier, which will come back each year adding shade and cover to your pond.

## BUNCHED OXYGENATORS



*Callitriche Stagnalis*  
Common Water Starwort



*Ceratophyllum demersum*  
Hornwort



*Fontinalis antipyretica*  
Willow Moss



*Ranunculus aquatilis*  
Water Crowfoot

## examples of FLOATING PLANTS



*Hydrocharis morsus ranae*. Frogbit



*Pistia Stratiotes*.  
Water Lettuce.



*Stratiotes Aloides*.  
Water Soldiers.



*Trapa Natans*.  
Water Chestnuts.

**Note: A number of floating plants are imported from warmer climates and therefore will be vulnerable to frosts and are unlikely to be overwintered successfully.**

**Therefore some of these plants should be considered as annuals.**

## PLANT PESTS AND PROBLEMS

**By: Tetra Pond Products**

Just like fish, pond plants may at times suffer from various health problems. The following table will help you identify and resolve some of these. Following these simple tips and using suitable aquatic products will ensure that you are able to create a beautifully planted pond with the minimum of trouble.

SYMPTOMS	LIKELY CAUSE	ACTION
<i>Small, black aphids on lily leaves.</i>	<i>Water lily aphid.</i>	<i>Spray nearby fruit trees in the winter with an ovicide to kill eggs. Knock aphids into water with hose where fish can eat them.</i>
<i>Small dark brown/black beetles, and tiny black larvae on lilies. Causes disfigurement of leaves.</i>	<i>Water lily beetle.</i>	<i>Knock beetles into water with hose. Tidy up pond side vegetation during winter.</i>
<i>Jelly-like masses appear on leaves, plants eaten away.</i>	<i>Snails, in particular greater pond snails.</i>	<i>Float lettuce on water, remove when covered in snails.</i>
<i>Dark patches on surface of leaves.</i>	<i>Water lily leaf spot.</i>	<i>Remove affected leaves and discard.</i>
<i>Sudden blackening of leaves and flower stems. Rootstock goes gelatinous and foul smelling.</i>	<i>Water lily crown rot.</i>	<i>Remove all affected plants and destroy them.</i>



**Eleocharis acicularis** (Needle spike Rush)  
Slender little tufted plant with needle-like stems, each terminating in a brown spikelet.  
Depth: 0-60cm | Height: 15-40cm | Position: Sun / Part Shade  
Flowers: Aug - Sept | Growth Rate: Slow



**Hippuris vulgaris** (Mare's Tail)  
Attractive low growing vertical bottle brush type stems rise out of the water.  
Depth: 0-15cm | Height: 25-30cm | Position: Sun / Part Shade  
Flowers: June - July - Aug | Growth Rate: Slow



**Hottonia palustris** (Water Violet)  
A good oxygenator. This charming native bares handsome foliage & whorls of lilac flowers.  
Depth: 5-80cm | Height: 5-15cm | Position: Part Sun  
Flowers: June - July - Aug | Growth Rate: Medium



**Hydrocotyle nova zealand** (Miniature Pennywort)  
This perennial forms a carpet of miniature round leaves.  
Depth: 0-25cm | Height: 10-15cm | Position: Sun / Part Shade  
Flowers: April - May - June | Growth Rate: Medium



**Hydrocotyle sibthorpioides variegata**  
An attractive perennial that forms a carpet of miniature round leaves edged with cream.  
Depth: 0-25cm | Height: 10-15cm | Position: Sun / Part Shade  
Flowers: April - May - June | Growth Rate: Medium



**Lilaeopsis brasiliensis** (Oxygenating plant)  
It forms a lawn like carpet at the bottom of the pond making it a good oxygenator  
Depth: 0-60cm | Height: N/A | Position: Sun / Part Shade  
Flowers: N/A | Growth Rate: Slow



**Marsilea quadrifolia** (Water Shamrock)  
The clover like leaves rise above the surface of the pond.  
Depth: 0-25cm | Height: 8-15cm | Position: Sun / Part Shade  
Flowers: July - Aug - Sept | Growth Rate: Fast



**Myriophyllum brasiliensis red stem**  
Bright green feathery foliage with red stems above the water.  
Depth: 0-25cm | Height: 15-25cm | Position: Sun / Part Shade  
Flowers: June - July | Growth Rate: Medium



**Myriophyllum crispatum** (Upright Water Milfoil)  
This attractive foliage rises above the water and produces small reddish flowers.  
Depth: 0-25cm | Height: 15-25cm | Position: Sun / Part Shade  
Flowers: June - July | Growth Rate: Medium



**Pilularia globulifera** (Pepper Grass)  
Leaves are hair-like and arise from a creeping stem.  
Depth: 0-30cm | Height: 10-15cm | Position: Sun / Part Shade  
Flowers: N/A | Growth Rate: Slow



**Ranunculus hederaceus** (Ivy-leaved Crowsfoot)  
A pretty little creeping plant. It grows in shallow water or on mud and has little white flowers above the surface.  
Depth: 0-30cm | Height: 1-3cm | Position: Sun / Part Shade  
Flowers: April - May - June - July | Growth Rate: Medium



**Scirpus cernuus** (Fibre Optic Plant)  
The glossy thread-like leaves have minute white flower spikes on the tips of each leaf.  
Depth: 0-10cm | Height: 20-30cm | Position: Sun / Part Shade  
Flowers: July | Growth Rate: Slow



Interest Free Finance Available

**0% APR\***  
Representative

On Purchases Over £250  
Subject to status, terms & conditions apply.  
\*See page 3 for full details

# Oase

## OASE Pond Liners...

Creating a pond using flexible liners gives you the ultimate freedom in terms of design, shape and depth. It is easy to build in shelves surrounding deeper zones or a shallow beach area. The larger the pond, the thicker and more robust the liner should be. To protect the liner from damage, from items such as stones and roots, you should always use a dedicated protective layer under the liner.

### Alfafol 0.5mm PVC Liner

- Single-ply black PVC liner for small to medium sized ponds
- 0.5mm thickness
- UV resistant
- Rot resistant
- Cold resistant
- 15 year guarantee

### OASEFol 1.0mm EPDM Rubber Liner

- Black EPDM rubber liner for medium sized to large ponds
- 1.0mm thickness
- Particularly robust and stretchy material
- UV resistant
- Cold resistant
- Tear resistant
- Ozone resistant
- Lifetime guarantee



### 0.75mm GreenSeal EPDM

- Ideal for all sized ponds
- Extremely durable and flexible
- Reduced creasing
- UV & Ozone resistant
- Cold resistant to -40
- Available to order



**UNDERLAY PROTECTS your liner & warranty**



AlfaFol PVC Liner Pre-Packs
2m x 1.5m
2m x 3m
4m x 3m
4m x 5m
6m x 4m
6m x 5m
6m x 6m
8m x 6m

OASEFol EPDM Rubber Liner Rolls Widths	
3.05m (10')	7.32m (24')
3.66m (12')	8.02m (26.3')
4.27m (14')	10.06m (33')
4.88m (16')	12.19m (40')*
5.49m (18')	15.24m (50')*
6.10m (20')	
*Special and larger sizes available on request	

## CALCULATING YOUR LINER SIZE

### POND DIMENSIONS

LENGTH (A)	WIDTH (B)	MAX DEPTH (C)
m/ft	m/ft	m/ft

### LINER LENGTH

2 x Max Depth (C)	m/ft
Plus Max Pond Length (A)	m/ft
Plus 0.3m(or 1 ft) for overlap	m/ft
= LINER LENGTH	m/ft

### LINER WIDTH

2 x Max Depth (C)	m/ft
Plus Max Pond Width (B)	m/ft
Plus 0.3m (or 1 ft) for overlap	m/ft
= LINER WIDTH	m/ft

Minimum Liner Size =

m/ft X m/ft

Example:

### POND DIMENSIONS

LENGTH (A)	WIDTH (B)	MAX DEPTH (C)
4 m/ft	3 m/ft	0.8 m/ft

### LINER LENGTH

2 x Max Depth (C)	1.6 m/ft
Plus Max Pond Length (A)	4.0 m/ft
Plus 0.3m (or 1 ft) for overlap	0.3 m/ft
= LINER LENGTH	5.9 m/ft

### LINER WIDTH

2 x Max Depth (C)	1.6 m/ft
Plus Max Pond Width (B)	3.0 m/ft
Plus 0.3m(or 1 ft) for overlap	0.3 m/ft
= LINER WIDTH	4.9 m/ft

Minimum Liner Size =

5.9 m/ft X 4.9 m/ft

## HOW TO INSTALL YOUR POND LINER

**1** Dig the hole to the required shape, taking care to make the sides slightly sloping rather than vertical.

To create marginal planting areas leave steps 20 cm to 40 cm deep (as shown in the illustration). For a perfect finish, ensure

that the top edge is level making edging easier with minimal visible liner exposed.

**2** Ensure area is free from sharp stones, place underlay on the base and sides and then position the liner. Should you need to tread on the liner remove

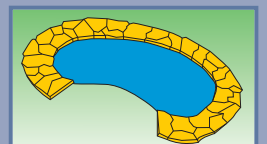
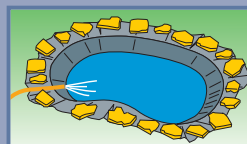
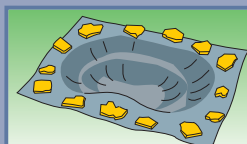
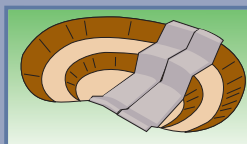
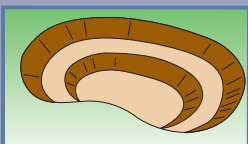
shoes to avoid piercing. Lightly anchor the liner around the edge of the liner.

**3** Run water into the pool gradually, at the same time pulling and tucking the liner into shape ensuring a neat finish. You'll notice that the liner

will stretch at first, then as the weight of water increases, it will mould itself to the shape of the sides. Fill the pool completely, checking that the liner fits closely all round. Leave overnight, to ensure proper settlement of the liner. Trim off excess

liner leaving at least a 30cm overlap for anchorage.

**4** After a week you can complete your pool by edging in stone, or paving as desired, allowing for a small overhang to hide the liner from direct sunlight. See page 11 for edging.



# Pond Products

British Pond Excellence

Glassfibre ponds are easy to install, have proven long life expectancy and do not suffer from unsightly creases (unlike liner ponds). Glassfibre ponds reduce the work of planning and overall pond design.



- TOLERANT IN TEMPERATURE DOWN TO -50C
- TOLERANT IN TEMPERATURE UP TO +80C
- CHEMICALLY INERT
- IMPACT RESISTANT



**GEORGIA**  
270 Lts / 60 Gals  
146 x 120 x 50cm



**MARLIN**  
1104 Lts / 245 Gals  
235 x 177 x 61cm



**BARRACUDA**  
2000 Lts / 440 Gals  
302 x 215 x 77cm



**LAGOON**  
721 Lts / 160 Gals  
206 x 131 x 63cm



**PACIFIC**  
1398 Lts / 310 Gals  
283 x 219 x 60cm



**NEVADA**  
3635 Lts / 800 Gals  
366 x 241 x 76cm



**BLENHEIM**  
1210 Lts / 266 Gals  
200 x 140 x 60cm



**ATLANTIC**  
2516 Lts / 554 Gals  
260 x 180 x 61cm



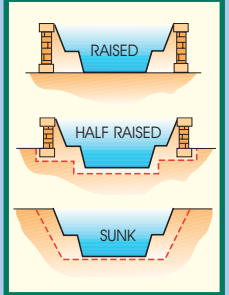
**NIIGATA**  
4950 Lts / 1100 Gals  
363 x 242 x 93cm

## INSTALLING A PREFORMED POND

### BEFORE YOU START

Avoid siting a pond in areas prone to water logging or where there is a high water table due to the risk of damage. A fully or a partially raised pond could be considered in such an area. Never empty buried or part buried ponds when the ground condition is saturated with water.

### Choice of Installation:



1 Place the pond in position and mark the outline. Remove the pond and excavate the hole 5cm wider and deeper than the pond.



2 Line the excavation with approx 5cm of damp sand.



3 Using a spirit level check that the layer of sand covering the bottom of the excavation is level.



4 Place the pond into the prepared area.

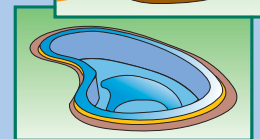
5 Gradually fill the pond with water while filling in the gaps between the pond

and the edge of the excavation with sand and top soil, making sure the pond remains level.



### IMPORTANT

A pond should be filled and allowed to settle for at least 7 days before any edging work is done.



**Home Delivery Service** available in selected areas. Please check with local store or website for details



**WARNING**  
Young children must be supervised near open water of any kind

# Oase

## PREFORMED PONDS PE

Organic shapes for a natural impression

- Preformed plastic ponds up to 1m<sup>3</sup>
- Fast easy planting into integrated marsh and plant zones
- Easy pump installation
- 15 year guarantee



PE500  
L178 x W126 x H56cm  
500 Litres



PE750  
L210 x W140 x H60cm  
750 Litres



PE150  
L120 x W80 x H45cm  
150 Litres



PE250  
L135 x W92 x H54cm  
250 Litres



PE1000  
L240 x W140 x H62cm  
1000 Litres

**Pond  
Products**  
British Pond Excellence

## INSTANT POOLS

Lifetime  
Guarantee

Please check  
availability at your  
local store



**Chub**  
Max Width 74 cm - 2'5"  
Max Length 89 cm - 2'11"  
Depth 30 cm - 12"  
Surface Area 0.3 sq. m - 4.0 sq. ft.  
Capacity 62 litres - 13 gallons



**Bream**  
Max Width 112 cm - 3'8"  
Max Length 137 cm - 4'6"  
Depth 42 cm - 16.5"  
Surface Area 1.1 sq. m - 11.8 sq. ft.  
Capacity 273 litres - 60 gallons



**Perch**  
Max Width 76 cm - 2'6"  
Max Length 137 cm - 4'6"  
Depth 36 cm - 14"  
Surface Area 0.6 sq. m - 6.3 sq. ft.  
Capacity 150 litres - 33 gallons



**Roach**  
Max Width 99 cm - 3'3"  
Max Length 137 cm - 4'6"  
Depth 36 cm - 14"  
Surface Area 0.8 sq. m - 8.9 sq. ft.  
Capacity 190 litres - 42 gallons



**Tench**  
Max Width 81 cm - 2'8"  
Max Length 137 cm - 4'6"  
Depth 33 cm - 13"  
Surface Area 0.6 sq. m - 6.3 sq. ft.  
Capacity 105 litres - 23 gallons



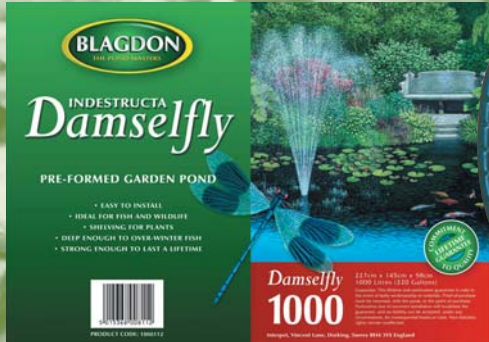


## INDESTRUCTA PONDS

The Blagdon Indestructa ponds incorporate spacious shelving designed to accommodate the majority of planting basket shapes. This enables easy planting giving that natural pond look.

All Indestructa ponds are ideal for fish and wildlife, are easy to install and with volumes ranging from 150 litres to 1250 litres, there is a size to suit all.

The ponds are made from high quality HDPE, are exceptionally durable and backed by Blagdon's lifetime commitment to quality guarantee.



DAMSELFLY		
Model	Size cm	Capacity
500	179x114x48	500 litres
750	204x131x53	750 litres
1000	227x145x58	1000 litres
1250	246x157x61	1250 litres



MAYFLY		
Model	Size cm	Capacity
150	110x73x40	150 litres
250	126x84x45	250 litres
500	163x111x50	500 litres
750	185x125x55	750 litres
1000	205x135x60	1000 litres

Please check availability at your local store

**Square 1m x 1m**  
Height Options:  
690mm & 800mm

**Square 1.5m x 1.5m**  
Height Options:  
690mm & 800mm.

**Square 2m x 2m**  
Height Options:  
690mm, 800mm & 940mm

**Rectangular 1.5m x 1m**  
Height Options:  
690mm & 800mm

**Rectangular 2m x 1m**  
Height Options:  
690mm, 800mm & 940mm

**Rectangular 2m x 1.5m**  
Height Options:  
690mm, 800mm & 940mm

**Filtration Planks**  
Allows hidden entry & exit of pipework.

**4ft Octagonal**  
Height Options: 800mm

**6ft Octagonal**  
Height Options:  
800mm & 1070mm

**8ft Octagonal**  
Height Options:  
800mm & 1070mm

**10ft Octagonal**  
Height Options:  
800mm & 1070mm

**12ft Octagonal**  
Height: 1070mm,  
10,405 litres

**Stretched Octagonal 12ft x 8ft**  
1070mm high - 6452 litres

## Self Build WOODEN FISH PONDS

**Guaranteed Quality**  
These precision engineered ponds are produced in a state-of-the-art manufacturing facility for guaranteed quality.

- Unrivalled Structural Integrity**
- Notched tongue and groove system, ensuring the ponds are structurally solid.
  - Fully pressure treated timber.
  - 44mm wood thickness with 10 year guarantee.

**Crease-free Liner**  
No "flat-sheet" overlap Pond Liners. PVC liners are tailor-made, utilising high frequency welding to create a perfect fitting and crease free waterproof membrane. Liners are supplied with the "Beaded Linerlock" system commonly used in swimming pools, resulting in a perfect fit.

**Ease of installation**  
Designed for self builds; the range offers fast, simple installation for competent DIY enthusiasts.

**Visually stunning**  
The combination of chunky, thick timber and a crease-free Liner will ensure that your Pond is the focal point of your garden.

**Free Delivery**  
Free weekday curbside delivery to UK mainland addresses.

SEE THE FULL RANGE [worldofwater.com](http://worldofwater.com)



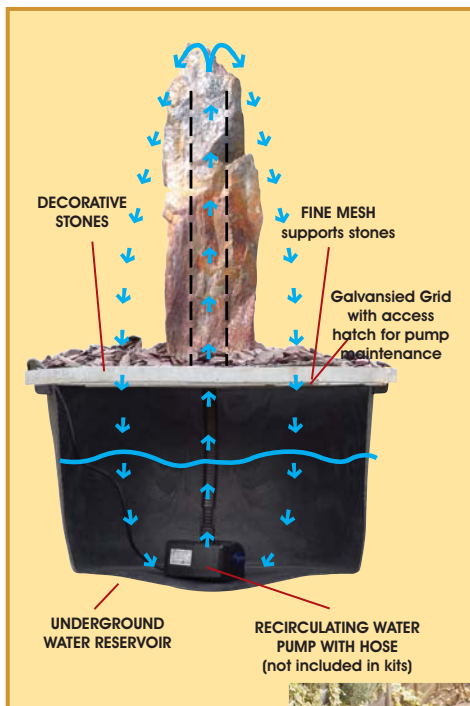
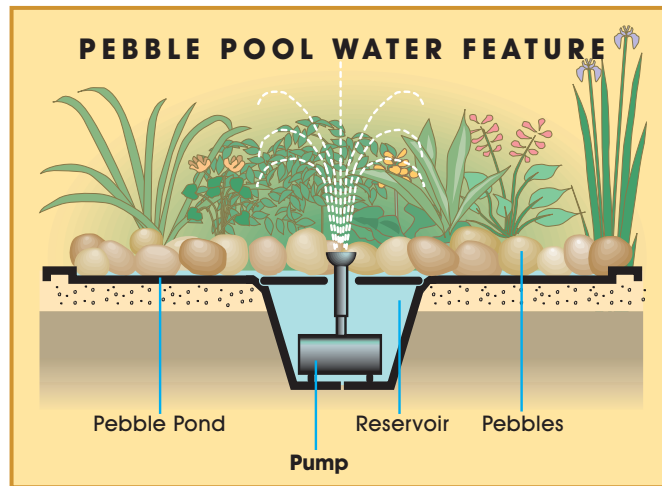
# Pebble Pools & Sump Kits

## THE MOST POPULAR WAY OF CREATING A PERSONALISED WATER FEATURE

Pebble pools provide a means by which the simplest and safest of water features can be tailored to your individual taste.

The pebble pool is simply a sump in which to house your pump, surrounded by a tray to catch and return the water from your feature. The sump is covered with a lid through which the fountain or pipe extends to supply water to the feature. The whole unit can then be covered with pebbles.

This feature is very adaptable and enables you to achieve incredible results by adding your own individual touches. For example, a terracotta pot or a small ornament on the side pouring water into the pool, different fountain heads, a drilled rock or millstone with the water gently tumbling over the sides.



## SUMP & GRIDS

To suit most sizes of water features. Just select your feature, pump and pebbles



## INSTALLING SUMPS KITS

Installing your water feature installation only takes a few hours using the simple step by step instructions here.



Turn reservoir upside down and mark out circumference with spade.



Add 2.5cm (1") layer of sand in bottom of hole to make a level base.



Place grid on reservoir. Cover with two layers of fine mesh to prevent debris falling in. Cut hole in centre of mesh and pull tubing through.



When the reservoir is full, switch pump on and adjust water flow until you are satisfied with the effect. Finally cover mesh with stones, arrange the plants, stand back - and enjoy.

# Waterfalls, Streams & Cascades

Installing a waterfall will add an extra dimension to the beauty of your water garden, as the falling water sparkles in the sunlight while you enjoy the delightful relaxing sound of tumbling water.

## HOW TO...

There are many ways to create a waterfall or stream. Using one of the large selection of pre-formed waterfalls illustrated in this manual and available from World of Water is one easy and effective method.

You will find ranges to suit all budgets, pool sizes, rock colour and type. Some cascade units look great on their own, or you may decide to go for a selection of units, which interlock to create a complete stream!

## INSTALLING A PRE FORMED WATERFALL

Before starting any waterfall project, consider the size of pump required as the higher and wider the waterfall, the larger the pump needed. In simple terms approximately 1,400Ltrs (300 gallons) per hour is required for a 15cm (6") wide fall. All pumps lose volume (flow) the higher you pump the water, so if using an existing pump check it's capacity. If planning to purchase a new pump, ensure it is of adequate power for your waterfall. Check out our pump guide in this manual.

When installing pre-formed waterfalls it is always recommended to conceal a piece of pond liner under the units overlapping into the pond as this will catch any water splash and return it to the pool. The feed hose that is installed should usually be at least 25mm (1 inch) in diameter, but do consult an expert for the correct hose for your pump as a small hose will seriously reduce the potential flow of any pump.

A firm base is required to avoid subsidence. Positioning the units on about 2cm of dry sand and cement mix will hold the units in the desired position. To make any new units look more rustic, it is possible to use some heavy gravel/cobbles and place trailing plants around the units. For further hints on installation, seek advice from one of our experts.



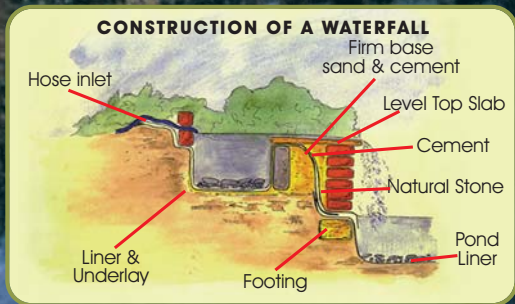
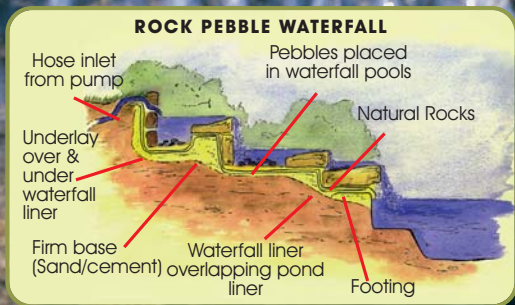
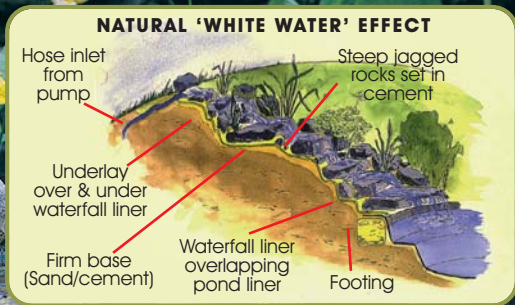
## BUILDING YOUR OWN WATERFALL

**Building your own waterfall from nature rock or stone can give you a personalised and stunning feature. Here are some tips.**

Dig out and step the slope as required leaving it a few cm's deeper than the rocks you're going to use.

Line area with underlay & a single liner ensuring it overlaps the pond. Consider the route for the supply hose.

waterfall. It is usually possible to build the hose outlet into the top, however it is best not to cement this in immediately so it may be adjusted after testing the flow.



Starting from the bottom, begin building your waterfall, using flatter stones for the spill lips ensuring the facings are level. Sitting the front lip slightly higher than the back allows water to pool in each step.

Once completed trim the liner so it is higher than any likely water flow. Cement work can be pointed once it has began to cure. An easy way is to use an old paint brush to dab the cement to blend it in as it dries.

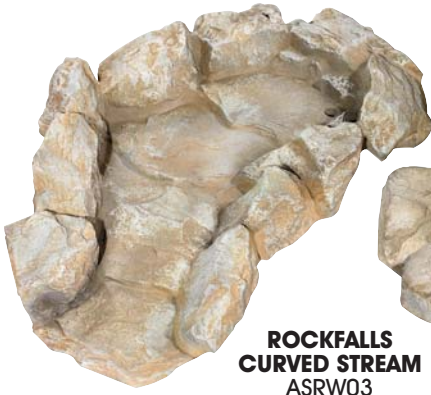


Continue working up the waterfall, remembering to ensure there is plenty of liner coming up each side of the

**Do not run the waterfall for a few days remembering too much cement in the pond can cause health problems so water changes and pH checks may be required.**



**ATLANTIS ROCK CASCADE**



**ROCKFALLS  
CURVED STREAM**  
ASRW03  
L107cm x W70cm



**ROCKFALLS  
CASCADE**  
ASRW01  
L68cm x W69cm



**ROCKFALLS  
TIERED CASCADE**  
ASRW02  
L64cm x W63cm



**ROCKFALLS  
LARGE FALL**  
ASRW04  
L123cm x W73cm

**ATLANTIS MIDI RANGE**



**MIDI  
SINGLE STEP**  
AMWO1P  
L43cm x W60cm



**MIDI  
DOUBLE STEP**  
AMWO3P  
L90cm x W51cm



**MIDI  
SLATE DROP**  
AMWO6S  
L69cm x W49cm



**MIDI  
SLATE CURVED**  
AMWO5S  
L57cm x W65 cm



**MIDI  
SLATE RAPID**  
AMWO7S  
L78cm x W53cm

**ATLANTIS SLATE RANGE**



**SLATE STEP**  
ASWO2  
L120cm x W74cm



**SLATE LARGE STREAM**  
ASWO3S  
L144cm x W82cm x H228cm

**ATLANTIS HIGHLAND**



**HIGHLAND TIERED  
CASCADE**  
AHWO2P  
L68cm x W69cm



**HIGHLAND ROCK  
FALL**  
AHWO4P  
L87cm x W65cm





**NIAGARA FALLS**



**Spring (with inlet)  
FGRS21a**

Shown in Slate Brown  
L70 x W98 x H15cm  
Max Flow 4000 LPH

Order No: Slate Brown 33047 / Grey 33048



**Overhang  
FGRS22**

Shown in Grey  
L80 x W105 x H12cm  
Max Flow 4000 LPH

Order No: Slate Brown 33049 / Grey 33057



Combination of  
**FGRS21a / FGRS22**

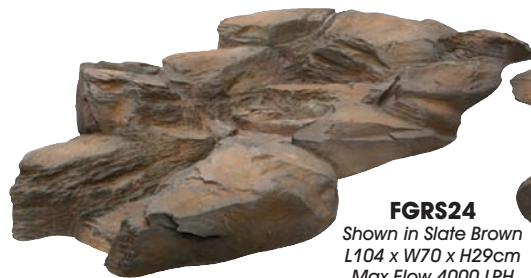
**WATERFALL ONE PIECE**



**FGRS35**

Shown in Slate Brown  
L125 x W104 x H45cm  
Max Flow 4000 LPH  
Order No: 51055

**CAUCASUS**



SIDE VIEW

**FGRS24**

Shown in Slate Brown  
L104 x W70 x H29cm  
Max Flow 4000 LPH  
Order No:  
Slate Brown 33058  
Grey 33059



FRONT VIEW

**GRAND CANYON**

**Cliff  
FGRS38**

Shown in Slate Brown  
L85 x W80 x H24cm  
Max Flow 4000 LPH  
Order No:

Slate Brown 33067 / Grey: 33068

**Grand Canyon Left  
FGRS36**

Shown in Slate Brown  
L100 x W90 x H15cm  
Max Flow 4000 LPH  
Order No:

Slate Brown 73680 / Grey 73681

**Grand Canyon Right  
FGRS37**

Shown in Slate Brown  
L90 x W80 x H20cm  
Max Flow 4000 LPH  
Order No:

Slate Brown 73682 / Grey 73683

**SLATE SMALL WATERCOURSE**



**STAUBBACH FALLS LEFT  
(with inlet) FGS1A**

Shown in Slate Brown  
L59 x W58 x H19cm  
Max Flow 1500 LPH  
Order No:

Slate Brown 73684 / Grey 73685

**STAUBBACH FALLS  
RIGHT (with inlet)  
FGS2B**

Shown in Slate Brown  
L58 x W53 x H19cm  
Max Flow 1500 LPH  
Order No:

Slate Brown 73686 / Grey 73687

**VICTORIA FALLS**



**SIN1**

Shown in Grey  
L95 x W63 x H30cm  
Max Flow 4000 LPH

Order No: Slate Brown 51046 / Grey 33075

**ABER FALLS**



**Aber Falls Step  
FGAB1**

L67 x W57 x H16cm  
Max Flow 1500 LPH  
Order No: 76632



**Aber Falls Drop  
FGAB2**

L64 x W62 x H20cm  
Max Flow 1500 LPH  
Order No: 76633



# Filtration

## Putting it simply

There are two main types of successful pond filtration. An ULTRA VIOLET filter kills green water to keep the water clear, while a BIOLOGICAL FILTER looks after the water quality to keep the fish healthy and happy. Most modern filters combine these methods into one unit for convenience and ease of installation.

### BIOLOGICAL FILTRATION

Most beginners believe a pond filter works by removing physical dirt and it is this which keeps the water sparkling clean.

In fact this is not the case, although a small amount of suspended particles are strained out by the biological filter.

A biological filter works like a mini sewage system for the pond. In simple terms the media within the filter creates a huge surface area, which becomes home to many millions of helpful bacteria. It is vital to keep these oxygenated by passing pond water through the filter 24 hours a day.

These helpful bacteria break down invisible toxins produced directly from the fish and the decaying of physical waste such as fish faeces, excess food or organic material at the bottom of the pond. This is done by the helpful bacteria breaking down the initial toxin Ammonia into Nitrite. A different type of helpful bacteria then breaks this dangerous Nitrite down to Nitrate which then can be absorbed by plants as they grow and is harmless to fish except in high concentrations. The bigger the pond or the more fish the larger the filter will need to be. Hence it is vital to purchase a filter which can easily cope with your pond volume and anticipated fish stocking level.

Please always check the capacity of your chosen filter with a member of staff.

Some advanced filter systems can strain out more solids from the water, but it has to be remembered that these still have to be biologically broken down unless physically removed by flushing or draining.

It is important to know when first starting a biological filter it can take up to six weeks for helpful bacteria to colonise the filter. During this period care should be taken to keep feeding down and to monitor your water quality regularly with a test kit.

### ULTRA VIOLET CLARIFIERS – ELIMINATING GREEN WATER

Ultra violet clarifiers are available as a standalone unit to be added to existing biological filtration units or more commonly they are combined with a biological filter.

An ultra violet clarifier is an electrical unit through which water is pumped before it enters the biological filter, and its purpose is to eliminate green water and reduce harmful bacteria in the pond.

As the water is passed through the unit, it is subjected to high levels of U.V. light. This U.V. light causes the microscopic single cell algae to be clumped together allowing them to be collected and broken down by the biological filter, thus eliminating the problem of green water.

**REMEMBER:**  
**CLEAR WATER ISN'T ALWAYS HEALTHY WATER!**

Although the clarity of the water will improve after a couple of weeks of turning on your Ultra Violet Clarifier, you must check the toxin (Ammonia and Nitrite) levels to make sure the biological filter is coping with all the extra waste produced by the coagulated algae.

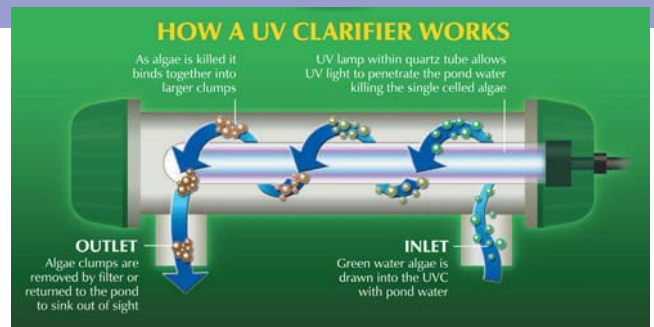
*Large fish such as ghost carp and koi can cause murky water by stirring up the bottom of the pond. This murky water should not be confused with suspended algae.*

### DO ALL PONDS NEED FILTRATION?

No. If you are intending not to have any fish, or you're creating a wildlife pond with high plant stocks and just a few fish you may choose not to have a filter, and try to create a natural balance instead.

It is a relatively simple process but can take a very long time to get a balanced nitrogen cycle within your pond, hence why most people still opt for a filter of some kind.

The principle is very simple. You will need plenty of plants, probably covering two thirds of the pond area. These plants, along with naturally occurring helpful bacteria in the pond, will then use and digest any toxins left by fish and rotting organic waste, hopefully providing a good natural balance and a clear pond. It is important to remember that the plants should be well established before gradually introducing fish, and it could take at least eighteen months to create a naturally balanced pond.



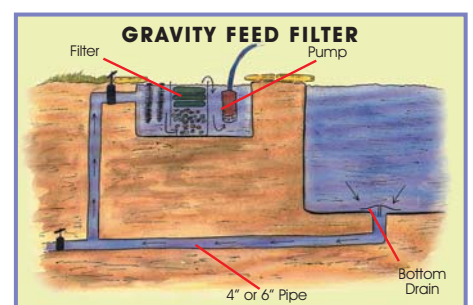
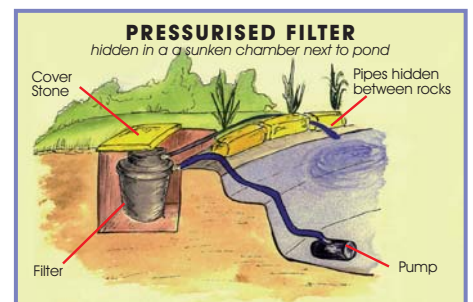
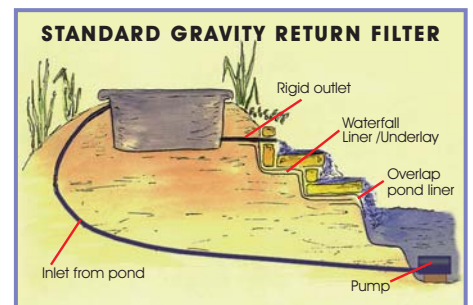
### DIFFERENT TYPES OF FILTERS

There are three common types of filter, mostly available with combined Ultra Violet Clarifiers. It is important to bear in mind installation options before purchasing.

**Gravity Return Filters.** These filters are pump fed and gravity return. These will require a pump in the pond that feeds the filter. Water will then simply pass through the filter and return to the pond under gravity. This means the filter outlet must be higher than the point at which you want the water to return.

**Pressure Filters** are ideal for small to medium size pools and are directly fed from a pump in the pond. However since the filter is a sealed unit the water is still under pressure when leaving the filter, allowing much more flexibility in the positioning of the unit.

**Gravity Fed Filters** are ideal for larger Koi ponds. They are complex units to install and expert advice is available in our stores.



## MAINTENANCE

**Biological filter:** Only clean the filter media as instructed by the manufacturer or when absolutely necessary. It is usually obvious when they need cleaning by either water flow reduction through a pressurised filter or by some water passing over media in gravity filters.

When cleaning is required always rinse the media in bucket of pond water rather than tap water, as tap water contains chlorine that will kill the beneficial bacteria. Do not clean all the media at once, but stagger cleaning to keep a high population of the helpful bacteria.

Bacterial supplements are now readily available and can be used to boost the performance of the filter during the course of the season. They are also particularly useful to use when you have just installed a new filter, or cleaned an established one.

**Ultra Violet Clarifiers:** Always isolate the power supply before starting any work and never look directly at an illuminated U.V. bulb. Consult the manufacturers instructions for individual unit requirements.

The U.V. bulb will generally need replacing after six months work. When replacing the bulb, it is a good idea to change the "O" rings and seals. The quartz sleeve is very delicate, so handle with care. Remove any hard water residue or dirt from the Quartz sleeve as necessary. Drain and store in the winter if not being used.

## WHICH ONE?

All the filters in this guide have been given three different ratings for varying conditions, as illustrated by the symbols below. Follow these simple steps to find the filter that suits your needs.

- 1. If you don't know your pond volume, refer to page 13.**
- 2. Pick the symbol from below that most represents your pond & stocking level.**
- 3. Study the different makes and types of filters on the following pages and pick the type best suited to your needs.**
- 4. Look down the column with the symbol, which represents your pond until you find one which easily handles your pond volume.**
- 5. Always go up one model if it only just copes with your pond volume or your pond is in direct sunlight. Also remember fish grow and breed!**

Remember: the more fish in a pond, the more waste generated, and the more helpful bacteria needed to break it down - therefore the bigger the filter the better.



## TIPS ON INSTALLING A FILTER

**MOST filters have a gravity outlet therefore the outlet must be higher than the point of return.**

**With gravity outlet filters, keep the return pipe full bore, gently angled down and as short as possible.**

**To maximise water flow ensure the largest possible inlet hose is used.**

**Most top outlet filters will work better if partially buried keeping the sides tight around the media when full of water.**

**Always follow manufacturers instructions for individual model requirements.**

## TIPS ON RUNNING A FILTER

**Filters must run 24 hours a day (Certainly from March to October).**

**Pass your pond water through the filter at least every 1-2 hours.**

**Regularly check pump pre-filter to ensure good flow.**

**Remember a filter will take weeks to become biologically active.**

**Clear water does not mean healthy water. Test your water regularly.**

**Use a bacterial supplement to start and improve filter performance.**

**Always clean filter material in a bucket of pond water not in tap water.**

**Only clean media when flow is being inhibited.**

**Always test water and seek advice if fish suddenly look lethargic or unwell.**

## The Symbols

Example... your pond is 13,750 litres and has a good mix of fish and plants

POND ENVIRONMENT	FILTER SYMBOL TO SELECT					
	Symbol 1		Symbol 2		Symbol 3	
Heavy planting/ few fish	[Symbol 1]		[Symbol 2]		[Symbol 3]	
Medium planting/ Average fish stock	[Symbol 1]		[Symbol 2]		[Symbol 3]	
Light planting/ Heavy fish stocks	[Symbol 1]		[Symbol 2]		[Symbol 3]	

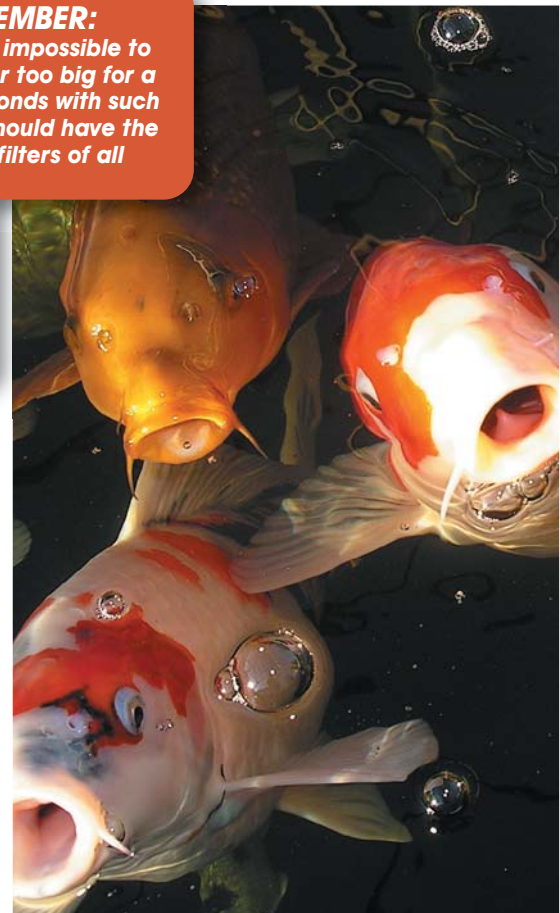
**REMEMBER:**  
It is simply impossible to have a filter too big for a pond. Koi ponds with such large fish should have the biggest filters of all

MODEL	APPROX. SIZE CM	Symbol 1		Symbol 2		Symbol 3		REC. FLOW	
		LTS	GALS	LTS	GALS	LTS	GALS	LTS	GALS
Compact	12(ht)x38x25	5,000	1,100	3,750	820	2,500	500	1,250	275
Medium	26(ht)x63x41	15,000	3,300	11,250	2,470	7,500	1,650	3,750	825
Large	46(ht)x63x41	25,000	5,500	18,750	4,100	12,500	2,750	6,250	1,375

## WHICH UVC?

- 1. You will need to know your pond volume to choose a suitable U.V.C. (refer to page 13).**
- 2. To find the right U.V.C. simply use the best suited symbol on this chart and match it to your pond size in the tables.**
- 3. The table shows the absolute maximum capacity a particular unit is capable of. Always go up a model if in any doubt.**

Which of these descriptions best suits your pond?	Clarifier symbol to select
<b>FISH STOCK/SUN LEVEL</b>	[Cloud symbol]
Lightly stocked/full shade	[Fish and Cloud symbol]
Lightly stocked/part shade Medium stocked/part shade Medium Stocked/full shade	[Fish, Sun, and Cloud symbol]
Lightly stocked/full sun Medium stocked/full sun Heavy stocked/full shade Heavy stocked/part shade Heavy stocked/full sun	[Fish and Sun symbol]



# EVOLUTION AQUA

INNOVATION IN WATER

## evouV

### ULTRAVIOLET CLARIFIERS FOR PONDS

- Eradicates greenwater in garden ponds
- Features highly efficient ballasts
- IP rating of IP65
- Easy to install and maintain
- Easy to maintain with replaceable control boxes
- Connects to flexi hose or rigid pipework
- Six models available; 15, 25, 30, 55, 75 and 110W



MODEL	☁️ 🐟		☁️ ☀️ 🐟		☀️ 🐟		MAX FLOW/HR		
	LTS	GALS	LTS	GALS	LTS	GALS	LTS	GALS	WATTS
evo15	15000	3300	11250	2475	7500	1650	7500	1650	15
evo25	20000	4400	17500	3850	15000	3300	10000	2200	25
evo30	30000	6600	27500	6050	25000	5500	15000	3300	30
evo55	55000	12100	42500	9350	30000	6600	20000	4400	55
evo75	75000	16500	65500	14410	55000	12100	25000	5500	75
evo110	75000	16500	65500	14410	55000	12100	25000	5500	110

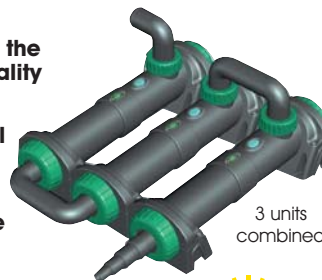
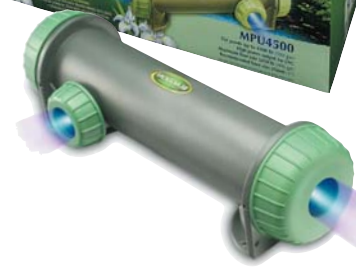
These figures are for guidance only, please seek advice from our experts or refer to manufactures detailed specifications.



### EFFECTIVE LONG TERM CONTROL OF GREEN WATER

## MINIPOND WATER GARDEN GREEN WATER UV CLARIFIER

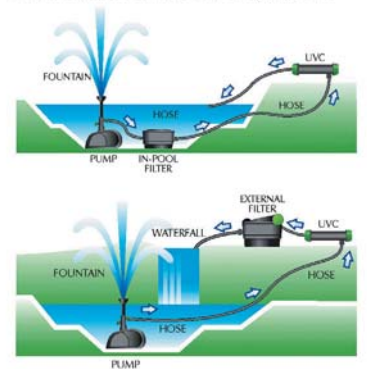
- UV light lamp kills green water algae
- Chemical-free solution
- No detrimental effects to the environment or water quality
- Economical to run
- Safe and simple to install
- Effective in conjunction with all filter systems
- Designed for outdoor use
- 2 year guarantee



3 units combined

### CONVENIENT INSTALLATION

Minipond UVC can be used in conjunction with any in-pool or external filter for effective control of green water.



MODEL MINI/MINIPOND	☁️ 🐟		☁️ ☀️ 🐟		☀️ 🐟		REC. FLOW		UVC WATTS	INLET/OUTLET MM/INCHES
	LTS	GALS	LTS	GALS	LTS	GALS	LTS	GALS		
4500	4500	990	3375	742	1265	278	2250	495	5	25mm / 1"
6000	6000	1320	4500	990	1687	371	3000	660	9	25mm / 1"



# Oase

- Automatic built-in cleaning device for quartz sleeve
- Advanced ultra violet clarifier
- Increased flow and light levels
- Integrated magnets reduce limescale build-up on the quartz sleeve, thus increasing effectiveness and life expectancy
- Built-in bypass system for highly effective decimation of algae
- Visual function check
- 2+1 year guarantee available on Bitron Eco models

## BITRON ULTRA VIOLET AND MAGNETIC CLARIFIERS

Automatic self-cleaning function - the flow of water causes a cleaning rotor to continuously rotate around the quartz sleeve, meaning less maintenance is required, and longer periods of high efficiency are achieved



MODEL BITRON	APPROX SIZE (L X W X H)CM	NATIVE POND		TYPICAL GARDEN POND		EXCLUSIVE FISH POND		MAX FLOW		
		LTS	GALS	LTS	GALS	LTS	GALS	LTS	GALS	WATTS
24C	44 x 18 x 20	25000	5500	12500	2750	6500	1430	15000	3300	24
36C	60 x 18 x 20	40000	8800	20000	4405	10000	2200	30000	6600	36
55C	60 x 18 x 20	60000	13200	30000	6600	15000	3300	30000	6600	55
72C	73 x 22 x 20	75000	16500	37500	8260	19000	4185	40000	8800	72
110C	73 x 22 x 20	110000	24200	55000	12100	27500	6057	40000	8800	110
ECO 120W	72.5x22.7x24.8	120000	26430	60000	13215	30000	6600	50000	11000	120
ECO 180W	72.5x22.7x24.8	180000	39595	90000	19825	45000	9912	50000	11000	180
ECO 240W	72.5x22.7x24.8	240000	52860	120000	26430	60000	13215	50000	11000	240
Prem 120W	70x38.7x30.5	185000	40694	100000	21997	66000	14518	70000*	15400*	120

\* Flow rate when pumped. Max gravity flow/hour is 33000gals/ 7259l



## MINIPOND COMBINED FILTER & UVC

ALL YOU NEED FOR A CLEAN AND HEALTHY POND

Minipond filters create a clean and healthy environment for your fish.

A minimum of maintenance is needed due to the unique Minipond's five-stage filter design.

- Hinged lid allows easy access for cleaning and maintenance
- Built in green water clarifier UVC light
- Open cell foam in reducing grades
- Professional Ceramic Biological Media
- Replaceable polymer wool pad polishes the water
- Replaceable carbon impregnated foam removes chemical pollutants for sparkling clear water



MODEL MINI/MIDPOND	APPROX. SIZE CM			UVC WATTS	LTS		GALS		REC. FLOW			
	L	H	W		LTS	GALS	LTS	GALS	LTS	GALS		
9000	46	40	35	5	4500	990	3375	742	1265	278	2250	495
12000	46	40	35	9	6000	1320	4500	990	1685	371	3000	660



## PONTEC MULTICLEAR

- Compact filter design
- Combined UVC clarifier fits on lid
- Multistage Filtration: Easy to clean Japanese matting, coarse and fine filter foam and Bio Balls media
- Separate chambers to optimise the flow inside the filter
- 50mm outlet (75mm on 15000 set)
- Also available as set with pump & hose



**KIT OPTION**  
comes complete with pump



MODEL MULTICLEAR	APPROX. SIZE CM			UVC WATTS	LTS		GALS		MAX FLOW		SETS INC. PUMP	
	L	H	W		LTS	GALS	LTS	GALS	LTS	GALS		
5000	38.5	28.5	35	7	5000	1100	2500	550	1500	330	1500	330
8000	38.5	28.5	48	11	8000	1760	4000	880	2500	550	2500	550
15000	38.5	56	41	11	15000	3300	7500	916	3750	825	3450	759

The Pontec Multiclear is NOT recommended koi ponds or ponds with high stocking density.

# Clear Pond



**Clarity & Purity...An advanced 7 stage filter with a high powered U.V.C and quick action back flush (De-sludge) system.**

**Combined U.V.C:** All models come with high powered U.V.C to ensure green water elimination.

**Multi chambered design:** Including filter brushes to help catch physical waste.

**Biological Filtration:** Filter foam cartridges & Bio Media help create a mass area for beneficial bacteria, which break down harmful toxins.

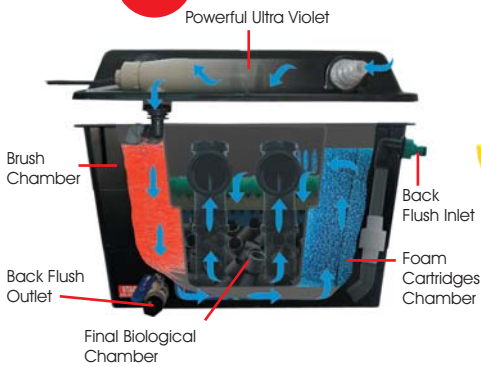
**Back Flush** - A simple way to remove sludge and silt build up from the filter tank.

**Top in - Top Out:** Can be partly buried.

**Creates a Clean, Clear, Healthy Pond:** Pick the most suitable model for your pond (Always going up a model if close to capacity). Combine with the recommended pump and watch your pond clear.



## Advanced 7 Stage Filtration System



CLEARPOND MODEL	SIZE CM			WATTS	1 Stage		2 Stage		3 Stage		REC. FLOW	
	L	H	W		LTS	GALS	LTS	GALS	LTS	GALS	LTS	GALS
Clearpond 18	46	30	41	18	15000	3300	10000	2200	6000	1300	3000	660
Clear Pond 25	54	40	39	25	25000	5500	18000	4000	12500	2750	4800	1060
Clear Pond 50	68	49	42	50	40000	8800	29000	6300	18000	4000	9000	2000
Clear Pond 80	80	60	48	80	50000	11000	37500	8250	25000	5500	11250	2500

# GREEN GENIE™

## THE ANSWER TO GREEN WATER PROBLEMS



Lotus Green Genie™ pond filtration systems have been developed after consultation with water garden professionals and specialists in the field of water treatment.

The award winning Green Genie combines one of Europe's most successful bio-filters with state of the art UV technology.

Dimple Foam and Bio Media filter-medium combined with an integral spray bar ensure optimum mechanical and biological efficiency.

The proven technology of the ultra violet clarifier completes the clear water process.

- Clear Water Guaranteed
- Compact Single Unit
- In Ground Capability
- Low Power Usage



### GREEN GENIE™

GENIE MODEL	APPROX			1 Stage		2 Stage		3 Stage		OPTIMUM FLOW		UVC WATTS
	L	H	W	LTS	GALS	LTS	GALS	LTS	GALS	LTS	GALS	
3500	38	27	30	3500	770	1750	385	875	192	1800	396	10
6500	38	27	30	6500	1430	2165	476	1083	238	2500	550	18
12500	46	30	41	12500	2750	4165	916	2083	458	3450	759	18
18000	54	40	39	18000	3959	9000	1980	4500	990	4500	990	18
24000	54	40	39	24000	5279	12000	2640	6000	1320	6000	1320	25
30000	68	49	42	30000	6599	15000	3300	7500	1650	9000	1980	25
48000	68	49	42	48000	10559	24000	5279	12000	2640	10000	2200	50
60000	80	60	48	60000	13210	30000	6600	15000	3300	12000	2640	80



## CLEAN POND MACHINE

- Turn to wash 'Clean hands' cleaning system
- Integrated Green Water UV clarifier
- Revolutionary foam-free 2-in-1 CHI media with lifetime guarantee
- Paired with Clean Pond Pods for 5-in-1 cleaning solution (FREE Pods included in pack)
- Direct to filter Pod dosing chamber
- Economical to run - low wattage
- Convenient installation - above or in ground
- Clearwater guarantee
- 3 Year guarantee

The Clean Pond Machine has a unique, innovative, foam-free design solving the issue of many traditional foam pond filters including frequent & messy cleaning routines, blocked & clogged filters, causing ineffective filtration resulting in a cloudy and or green pond.

### Clean Pond Pods

The Clean Pond Machine unique design includes a direct to filter dosing chamber for Clean Pond Pods (free starter pack included with filter). Each soluble pod pouch harmlessly dissolves, releasing the gentle active ingredients, getting straight to work to clean and clear your pond.

- Algae such as blanket weed
- Encourages healthy plant growth
- Makes tap water top-ups safe
- Eats pond sludge - further reducing filter cleaning
- Suitable for use in all ponds: planted, wildlife, Koi and other fish ponds

### 2-in-1 CHI Media

The Clean Pond Machine uses the latest 2-in-1 CHI pond filter media, working both as mechanical and biological filtration. Unlike foams, the media comes with a lifetime guarantee and will never deteriorate or need replacing and will go on effectively and consistently cleaning your pond for years to come!

### Cleaning is a Breeze

Using the Turn to Wash, "clean hands" system. Simply rotate the handle to break up the media and flush out the collected dirt captured from the pond. The flushed, dirty water can be recycled on your plant borders and is beneficial to the garden.

### Compact Size

The filter body has been specifically designed to be smaller than conventional pressure filters while still delivering exceptional performance. Convenient above or in-ground installation, along with its size, makes it more subtle and easier to locate.

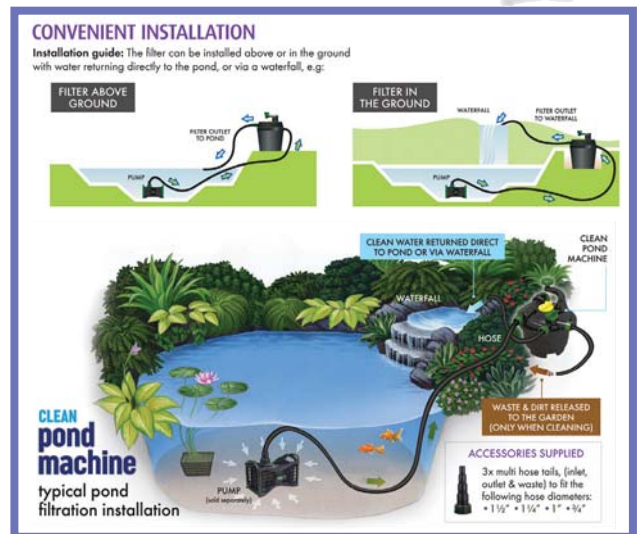
### Peace-of-Mind

The Clean Pond Machine comes with a selection of guarantees:

- 3-year manufacturers guarantee
- CHI media lifetime guarantee
- Clear water guarantee - delivered by the integrated UV Clarifier.

### Convenient Installation

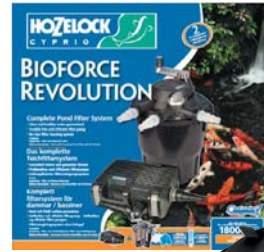
The Clean Pond machine can be installed above or in ground with water running directly to the pond, or via a waterfall etc.,



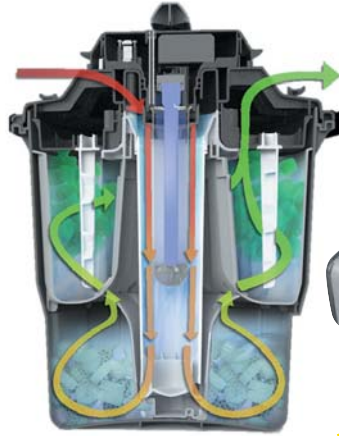
CLEAN POND	CMS		GALS		LTS		MAX FLOW GALS	LTS	COMB. UVC GALS	WATTS	REC. FLOW		REC HOSE SIZE
	LTS	GALS	LTS	GALS	LTS	GALS							
7000	42 x 42 x 40	3500	770	1900	418	984	216	3500	770	9	1500	330	25mm / 1"
10000	42 x 42 x 40	5000	1100	2800	616	1406	309	5000	1100	11	3000	661	25mm / 1"
13000	50 x 42 x 40	6500	1430	3600	792	1828	402	6500	1430	13	5000	1101	32mm / 1 1/4"
16000	50 x 42 x 40	8000	1760	4500	990	2250	495	8000	1760	18	7000	1542	40mm / 1 1/2"



## NEW BIOFORCE REVOLUTION FILTERS



- Powerful UV Clarifier eliminates green water
- Mechanical Filtration - Cypricube foams with +50% surface area ensure clear water and facilitate easy cleaning mechanism
- Biological Filtration - Large surface area with Kaldnes K3 biological media
- No fuss cleaning system - No more dirty hands simply turn the handle to activate the internal cleaning blades that separate solids from the Cypricube foams.
- Pressurised filtration without clogging or flow loss with Cypricube foam filters effectively remove waste but do not clog.
- Warranty: filter 2 Year, pump 5 Year (3+2 year)
- Clear Water Warranty



HOZELOCK BIOFORCE	APPROX. SIZE CM	UVC WATTAGE	☁️		☀️		☀️		REC FLOW		INC PUMP WHEN SOLD AS KIT
			LTS	GALS	LTS	GALS	LTS	GALS	LTS	GALS	
Bioforce Revolution 6000	52 x 42	18	12000	2640	9000	2000	6000	1300	4000	880	Aquaforce 4000
Bioforce Revolution 9000	52 x 42	24	18000	3960	13500	3000	9000	2000	4500	990	Aquaforce 6000
Bioforce Revolution 14000	62 x 42	36	28000	6150	21000	4600	14000	3100	7000	1540	Aquaforce 8000

These figures are for guidance only, please speak to a member of staff about your individual requirements. Alternatively for full details visit [www.hozelock.com](http://www.hozelock.com)

# Oase

## OASE SKIMMERS

OASE skimmers effectively collect debris from the pond surface into an easy to empty basket.

Removal of debris from the pond ecosystem before it starts to break down noticeably improves water quality and clarity.

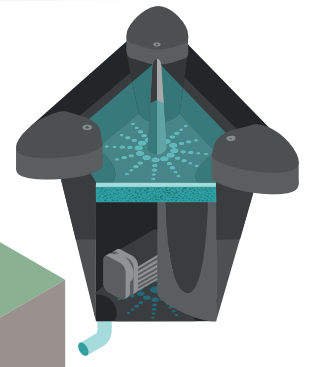
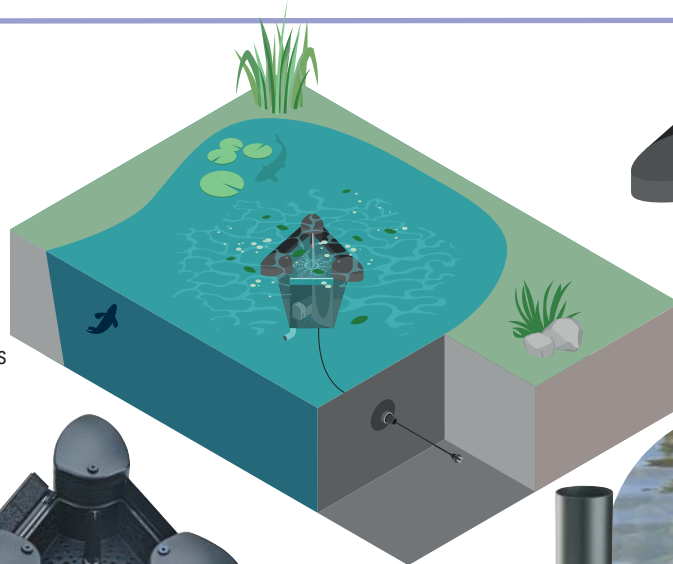
### SwimSkim 25

- For ponds up to 25m<sup>2</sup>
- 2500lph integrated pump
- Includes injector for increased oxygen
- Ice preventing function due to surface water movement
- Quick & easy to empty filter basket
- Automatically adapts to any water level
- Guarantee 2 years



### SwimSkim 50

- For ponds up to 50m<sup>2</sup>
- Integrated 3500 l/h pump
- Aerator function of 600 l/h
- Large Collection Basket
- Whirlpool effect stirs up debris on pond floor so that it can be removed by skimmer /filter.
- 3-year request guarantee



## AQUASKIM SKIMMERS

AquaSkim is a great addition to your filter system and can help improve water quality and viewing depth by removal of pollutants from the water surface.

AquaSkim 20 for ponds up to 20m<sup>2</sup>

AquaSkim 40 for ponds up to 40m<sup>2</sup>

AquaSkim Gravity model available to order



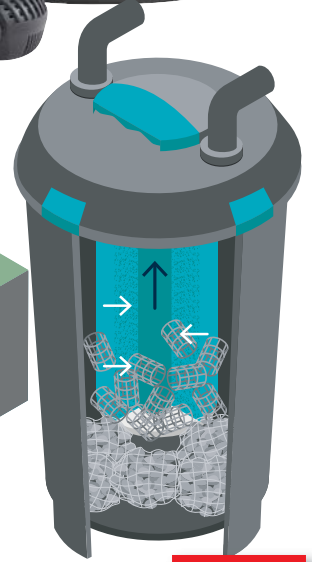
# Oase

## BIOPRESS FILTERS & KITS

Biopress filters help create a clear and healthy environment for fish and other pond inhabitants.

Complete with the OASE Clear Water guarantee when installed according to OASE recommendations (Terms apply).

The Easy-Clean technology employed in the design of these filters makes the necessary maintenance tasks much quicker and simpler, giving you more time to enjoy your pond.



- **Guaranteed clear water thanks to mechanical-biological filtration combined with an effective UV clarifier**
- **Complete sets including OASE filter pump and hose**
- **Simple and easy cleaning of the filter via the cleaning mechanism**
- **Quick-release catches on the filter lid facilitate easy access to the filters for maintenance purposes**
- **Can be almost completely buried so will not impact on the aesthetics of the garden**
- **Can supply cleaned water to a higher-elevated waterfall or stream**

**KIT OPTION**  
comes complete with pump

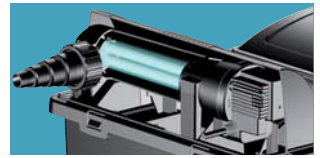
BIOPRESS FILTER SET	APPROX SIZE MM	WATTS	☁️		☀️		☀️		OPT FLOW RATE LTS GALS	MAX LIFT	INC PUMP WHEN SOLD AS KIT
			LTS	GALS	LTS	GALS	LTS	GALS			
4000	225 dia x 335	7	4000	880	2000	440	1000	220	1500 330	1.9m	FP 1500
6000	350 dia x 450	9	6000	1320	3000	660	1500	330	2500 550	2.2m	FP 2500
10000	350 dia x 570	11	10000	2200	5000	1100	2500	550	3400 750	2.7m	FP 3500

These figures are for guidance only, please speak to a member of staff about your individual requirements. Alternatively for full details visit [www.oase-livingwater.com](http://www.oase-livingwater.com)

## OASE BioSmart Complete Filtration System

The OASE BioSmart filtration systems provide exceptional filtration for all garden ponds, up to 36000 litres (see table).

- **Guaranteed clear and healthy water**
- **Biological and mechanical cleaning**
- **Integrated UVC to combat green water**
- **Easy maintenance with cleaning handles on each foam filter**
- **Pollution level indicator**
- **Sludge drain for removing collected waste material**
- **Temperature gauge**
- **Supplied with an OASE FP pump or an Aquamax Eco Start pump, matched to the size of the filter**



OASE BIOSMART	☁️		☀️		☀️		COMB. UVC WATTS	INCLUDED PUMP (WITH SETS ONLY)
	LTS	GALS	LTS	GALS	LTS	GALS		
Biosmart Set 7000	7000	1540	3500	770	1700	370	9	FP 2500
Biosmart Set 14000	14000	3080	7000	1540	3500	770	11	FP 3500
Biosmart Set 18000	18000	4400	9000	2200	4500	990	18	Aquamax Eco 5500
Biosmart Set 24000	24000	5290	12000	2640	6000	1320	24	Aquamax Eco 5500
Biosmart Set 36000	36000	7920	18000	3960	9000	1980	36	Aquamax Eco 11500

# Oase

## FILTOCLEAR

The *ADVANCED Filter Generation From OASE*

**Simple to install:**

The FiltoClear pressure filter can be placed anywhere outside of your pond. Just dig the FiltoClear into the ground. Then connect the hoses to the filter pump and return flow - that's it.

**Simple to clean:**

The internal filter sponges can be cleaned conveniently and thoroughly using the patented pull-out mechanism; without needing to open the filter. The integrated UVC lamp can also be easily changed even while running via the filter head

**Simply invisible:**

The FiltoClear can be buried almost up to the filter head.

**Simply safe:**

OASE's filters enable you to enjoy a pond that is clear, safe and long-lasting - engineered in Germany.

- New pull-out mechanism that allows filter sponges to be conveniently cleaned.
- OASE Bypass technology ensures constant water flow and prevents clogging
- UVC simple lamp replacement while the filter is running
- New clamping ring to make opening and closing the filter even easier
- 2 + 1 request year guarantee



RECOMMENDED PUMP TO COMPLETE KIT

FILTOCLEAR MODEL	APPROX SIZE	WATTS	Plants		Small Fish		Large Fish		MAX. FLOW LTS	MAX. FLOW GALS	OUTLET	AQUAMAX ECO PREMIUM
			LTS	GALS	LTS	GALS	LTS	GALS				
5000	380dia x 370mm	18w	5000	900	2500	450	1250	220	5000	900	all 38-50mm (1 1/2-2in)	4000
13000	380dia x 488mm	24w	13000	2350	7000	1250	3500	630	9000	1625		6000
19000	380dia x 608mm	42w	19000	3430	10000	1800	5000	900	13000	2350		8000
31000	380dia x 280mm	60w	31000	5600	15000	2700	7500	1350	17000	3070		10000

These figures are for guidance only, please speak to a member of staff about your individual requirements. Alternatively for full details visit [www.oase.com](http://www.oase.com)

# Oase

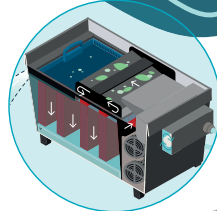
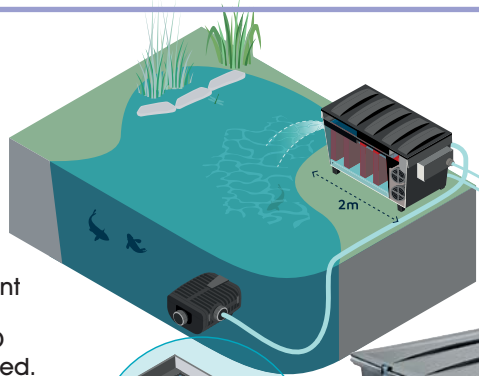
## Biotec ScreenMatic<sup>2</sup>

**Intelligent Monitoring:** Sensors detect pollutant levels on the filter screen which automatically activates the belt to clean the screen. The LED display shows when manual cleaning is required.

**Optimised water distributor:** Ensures an even water flow across the screen for optimised filtration

**Sludge basket:** Easy to remove

**Rubberised separator lip:** Improved separation as a result of non-uniform pollution build up.



Interest Free Finance Available  
**0% APR\***  
Representative

On Purchases Over £250  
Subject to status, terms & conditions apply.  
\*See page 3 for full details

## Biotec ScreenMatic<sup>2</sup> Filtration Sets

Complete filtration systems, including an energy-efficient AquaMax Eco Premium filtration pump, Bitron C UVC and Biotec ScreenMatic<sup>2</sup> filter

Please note the figures shown are a guide only. If you require further information, please speak to a member of staff.

SCREENMATIC <sup>2</sup> FILTRATION SETS	APPROX. SIZE CM L X W X H	Plants		Small Fish		Large Fish		INCLUDED FILTER	INCLUDED UV	INCLUDED PUMP
		LTS	GALS	LTS	GALS	LTS	GALS			
Set 40,000	79 x 59 x 45	20000	4405	15000	3304	10000	2203	ScreenMatic2 <sup>2</sup> 40,000	Bitron 36C	Aquamax Eco Prem 12000
Set 60,000	79 x 59 x 55	30000	6608	22500	4956	15000	3304	ScreenMatic2 <sup>2</sup> 60,000	Bitron 55C	Aquamax Eco Prem 16000
Set 90,000	79 x 59 x 55	45000	9740	33750	7305	22500	4870	ScreenMatic2 <sup>2</sup> 90,000	Bitron 110C	Aquamax Eco Prem 20000
Set 110,000	120 x 80 x 76	55000	12115	40000	8811	27500	6057	ScreenMatic2 <sup>2</sup> 140,000	Bitron 110C	Aquamax Eco Prem 16000
Set 120,000	120 x 80 x 76	60000	13216	45000	9912	30000	6608	ScreenMatic2 <sup>2</sup> 140,000	Bitron 110C	Aquamax Eco Prem 20000
Set 140,000	120 x 80 x 76	70000	15419	52500	11564	35000	7709	ScreenMatic2 <sup>2</sup> 140,000	Bitron 110C	Aquamax Eco Twin 30000

FILTER ONLY OR SET OPTIONS

FILTER SETS INCLUDING PUMP & UV

The Biotec model number relates to the filters max capacity when there are no fish stocks.(litres)



## OASE Control

- Smart networking of OASE Control products
- Central control of pumps, drum filters or lighting
- Bidirectional and intelligent communication solution
- Compatible with off-the-shelf routers for integration in the home network



### The smart revolution

With OASE CONTROL the age begins in which all important functions in and on the pond or in the garden can be centrally controlled via the home network. It enables convenient operation and control of the connected devices with an app via smart phone or tablet.

OC products can be networked with the mobile OASE Cloud, so that you can control your garden pond at any time, from anywhere in the world.

**1. OASE FM-Master series** is the heart of the Easy Control system. It enables control via tablet or smart phone with IOS or Android (Router required if linking to home wifi).

**2. RGB spotlight ProfiLux Garden LED.** This LED spotlight offers colour illumination effects with easy programming. It can be activated via the FM-Master WLAN EGC app and extended to as many as 4 light fixtures per controller.

**3. ProfiClear Premium EGC:** The ProfiClear Premium with extensive analyses concerning rinse water consumption, temperature curves, or mobile information in the event of malfunctions. Gravity-fed models have an additional sensor which detects failure of pumps.

**4. Eco Expert Pumps:** A range of powerful, energy efficient pumps especially suited for larger ponds. With the EGC connection the pumps can be networked with other OASE EGC products, allowing feedback concerning operating status, power consumption or performance data (Page 58)



- Innovative, new compact drum filter for small to medium sized ponds, particularly koi ponds
- High separation performance in the pump-fed as well as gravity fed model
- Minimal space requirement

## ProfiClear Premium Compact Filters

Intelligent filter system for near-to-nature ponds up to 140,000lts.

Automatic coarse debris extraction system easily flushes any contaminations out of the filter with clean pond water using the integrated powerful pressure pump.

Plug and play watertight micro controller system monitors and controls the main functions, operation is as easy as child's play.

Pollutant rakes on the sieves aids removal of string algae and other larger particles from the drum.

Continual particle separation will remove waste from the water before it has a chance to break down and contribute to nutrient levels. This can help to prevent blanket weed and string algae along with maintaining very good water quality.

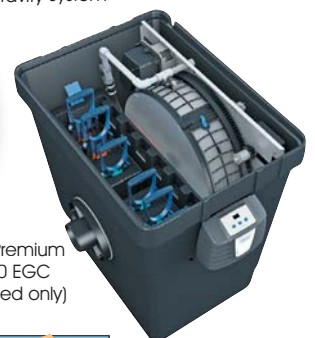


Premium Compact M EGC pump fed

Premium Compact L EGC Gravity System



Premium Compact M EGC with Moving Bed Filtration



Biotec Premium 80,000 EGC (Pump Fed only)

PROFICLEAR FILTER MODEL	SIZE L X W X H	LTS		GALS		LTS		GALS		MAX FLOW	
		LTS	GALS	LTS	GALS	LTS	GALS	LTS	GALS		
Premium Compact M EGC (Pump fed)	89 x 68 x 82	40000	8811	30000	6608	20000	4405	12500	2750		
Premium Compact L EGC (Pump fed)	134 x 89 x 82	60000	13200	50000	11000	30000	6600	20000	4405		
Premium Compact L EGC (Gravity)	134 x 89 x 82	70000	15420	52500	11560	35000	7700	25000	5500		
BioTec Premium 80,000 EGC (Pump fed)	89 x 68 x 82	40000	8811	30000	6608	20000	4405	12500	2750		

The ProfiClear filter will require an AquaOxy 2000 Air Pump, this is not included with the filter (Biotec Premium requires no air pump)

# Oase

## ProfiClear Premium Filtration

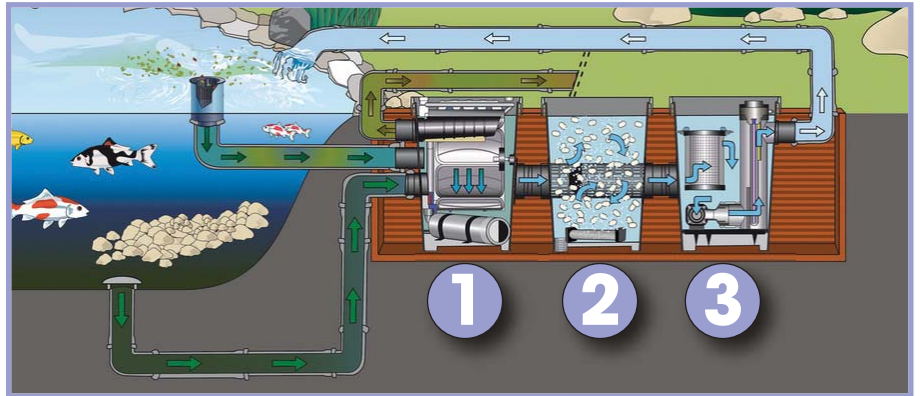
Perfect for koi ponds, swim ponds and other large bodies of water.

Innovative modular filter system for professional water quality.

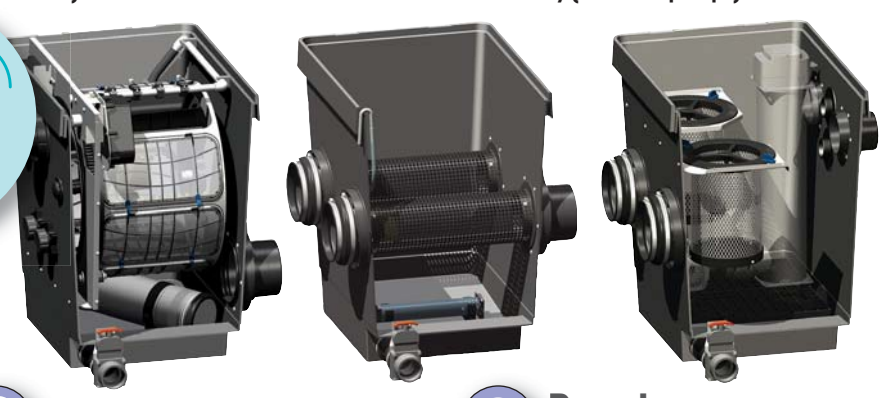
Developed by and with koi experts

Excellent decomposition rates of ammonium/ammonia and nitrite.

The ProfiClear Premium range can be integrated into the OASE Control system (Optional controller required). With OASE Control all operations and menu settings can be controlled using your home network. A clear view of all setting parameters and current filter status provides for complete control.



- Intelligent high-end module filter system for Koi ponds and other large bodies of water to 530m<sup>3</sup> (100m<sup>3</sup> with koi) with the NEW ProfiClear Premium XL range, available to order
- Modern module filter system for professional water quality where space is at a minimum
- Outstanding filter capacity with intelligent control functions
- Intelligent self-cleaning function (drum filter module)
- Highly effective decomposition of pollutants, thanks to professional filter media and moving bed process (Moving Bed)
- Flexible adaptation of the filter system to individual requirements (individual module)
- Mature, professional technology with more than 6 years of development time
- Innovative and reliable filtration made in Germany (Excludes pumps)



### 1 ProfiClear Premium DF-L OC

- Most effective filter performance with flow rate of up to 33m<sup>3</sup> per hour for crystal clear water
- Unique, completely automatic self cleaning offers minimal maintenance
- Flexible use, ideal for gravity or pump fed systems
- Long life quality product, developed to a high standard. German production!
- Extensive VDEP tested, certified safe function
- Conveniently control settings via app, through the OASE Control (OC) System, upgrading existing systems is possible with the upgrade kit - available separately.

### 2 Premium Moving Bed Filter

- Extremely large protected settlement surface for microorganisms using original Hel-X biomedica for nutrient reduction and removal of toxins like ammonia and nitrites
- Hel-X creates 40% more surface area for microorganisms than Kaldnes K1: (Hel-X 704m<sup>2</sup>/m<sup>3</sup> | Kaldnes K1 500m<sup>2</sup>/m<sup>3</sup>)
- Innovative Bypass technology enables the optimal movement of the Hel-X media even with high flow rates
- New XL Moving Bed comes with the latest PondPad bio-filter media with an increased settlement surface area of 5000 m<sup>2</sup>/m<sup>3</sup>.
- Pre-installed diffuser for optimal oxygen enrichment and turbulence. For use with AquaOxy air pumps.

### 3 Premium Individual Module

- Easy installation of Aquamax Gravity Eco filter pumps or Bitron Gravity UVC
- Included in the filter area are pre installed stainless steel baskets for individual addition of extra filter material from A (active carbon) to Z (Zeolite)
- Flexible installation possibilities with minimum loss of pressure thanks to DN110 pipe work on the Bitron Gravity
- Convenient placement of Individual baskets with up to 8 litres filling volume



**Selecting Your System:** The guide below is only a simple guide to the components you may require. However, every ponds requirement may differ depending on variants such as stocking level, size, exposure to sun and depth. Please talk to one of our trained OASE experts for advice on your set up.

**Interest Free Finance Available**  
**0% APR\*** Representative  
 On Purchases Over £250.  
 Subject to status, terms & conditions apply.  
 \*See page 3 for full details

	20,000LTS/4,400GAL			40,000LTS/8,800GAL			60,000LTS/13,200GAL		
	NO FISH	FISH	KOI	NO FISH	FISH	KOI	NO FISH	FISH	KOI
Drum Filter Module	1	1	1	1	1	1	1	1	2
Moving Bed Module	1	1	1	1	1	2	1	2	3
Individual Module	1	1	1	1	1	1	1	1	2
Bitron 72W	1	1		1	1		1		
Bitron 110W			1						
Bitron ECO 120W					1			1	
Bitron ECO 180W						1			
Bitron ECO 240W									1
OR Bitron Gravity UVC 55w	1	1	1	1	1	2	1	2	4
Pump Flow Rate Per Hour	2500	5000	13335	5000	10000	26667	7500	15000	40000

This is for guidance only, please always consult one of our OASE trained experts for individual requirements.



# eazypod

AUTOMATIC SYSTEM



EazyPod Automatic

## EAZYPOD

A compact member of the Nexus family, the EazyPod is a mechanical and biological filter system for ponds up to 10,000 litres.

- The EazyPod utilises 18 litres of static K1 Micro, which provides enhanced biological benefits
- Available in Grey or Granite Green colours
- Three model configurations

## THE EASIEST OF GARDEN POND FILTERS JUST GOT EVEN EASIER

- Hassle free filtration with automatic cleaning
- Control box operates valves and pumps
- Adjustable timer controls cleaning cycle
- Manual cycle can be carried out at touch of a button
- Now utilises K1 Micro for improved water quality
- Available as EazyPodComplete or EazyPod models
- Available in Grey or Granite Green colours

EVOLUTION  
**AQUA**

INNOVATION IN WATER



eazypod<sup>TM</sup>  
complete

MODEL	MAX FLOW		LTS		GALS		UVC WATTS	AIR PUMP		
	LTS	GALS	LTS	GALS	LTS	GALS				
EazyPod	10000	2200	10000	2200	7500	1650	6000	1320	N/A	N/A
EazyPod Air	10000	2200	10000	2200	7500	1650	6000	1320	N/A	Air Pump 70 Kit (Supplied)
EazyPod Complete	10000	2200	10000	2200	7500	1650	6000	1320	18	Air Pump 70 Kit (Supplied)
EazyPod Automatic	10000	2200	10000	2200	7500	1650	6000	1320	N/A	Built In
EazyPod Automatic UV	10000	2200	10000	2200	7500	1650	6000	1320	18	Built In

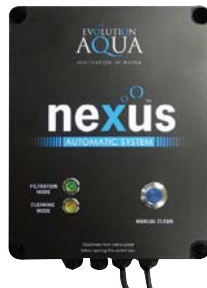


UPGRADE NOW FOR AUTOMATED CLEANING

# nexus+

ADVANCED FILTRATION WITH K+ MEDIA

- Uses K+Media for better biological filtration
- Vastly improves filtration and delivers faster maturation
- K1 Media inside the EAZY for mechanical Filtration
- Easy to install, simple to maintain
- Install on a pump-fed or gravity-fed set-up
- Manufactured ready for easy upgrade to Automatic System

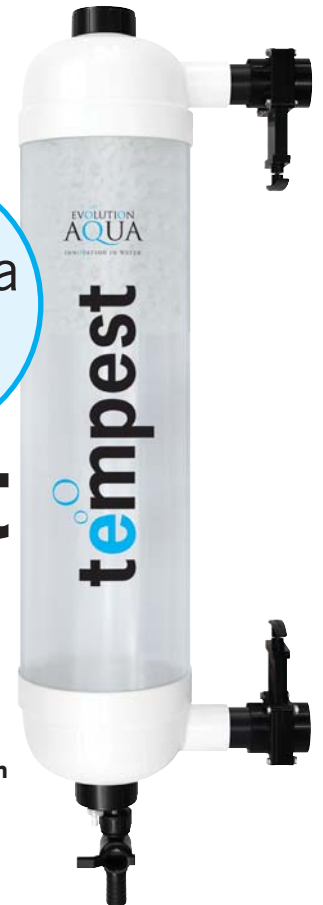


K+Media  
USES OUR  
ADVANCED  
FILTRATION  
MEDIA

# tempest

NEW INNOVATIVE POLISHER FOR PONDS

- Improves water quality and clarity
- Includes advanced K+Media
- Traps particles down to one micron
- Patent pending air backwash system
- Use in conjunction with any filtration system
- Easy to install, simple to clean
- Evolution Aqua filter media independently tested
- Works best as a polisher but can also be used as a standalone filter for small ponds up to 5,000 litres



MODEL	LTS		GALS	
	LTS	GALS	LTS	GALS
NEXUS 220+	Up to 18,000	Up to 4,000	10,000	2,200
NEXUS 320+	Up to 34,000	Up to 7,500	13,000	2,860

# Combined Pond Pump Filters

## An easy all in one pump and filtration solution for smaller garden ponds

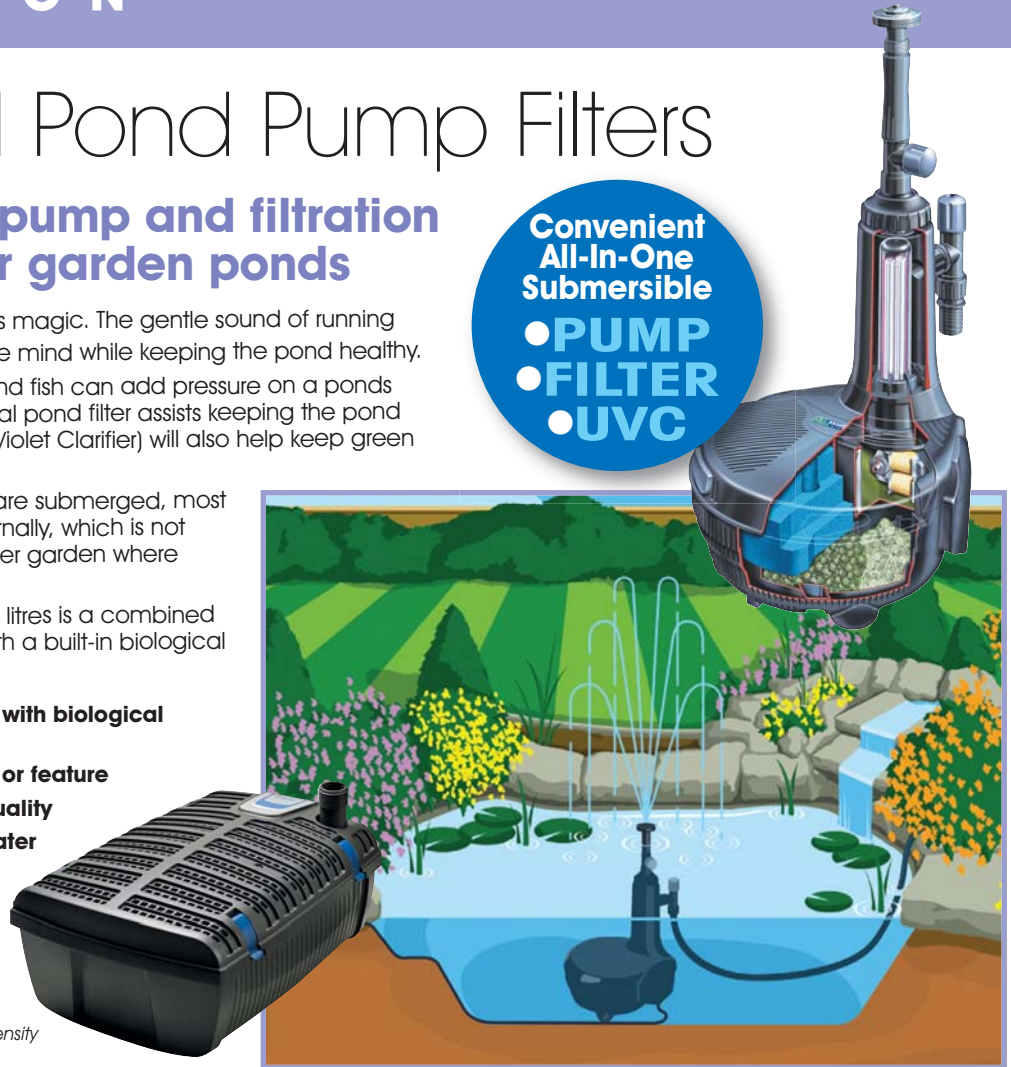
Moving water in any garden pond adds magic. The gentle sound of running water sparkling in the sunlight relaxes the mind while keeping the pond healthy. Fish creates even more interest, but pond fish can add pressure on a ponds delicate ecosystem. Adding a biological pond filter assists keeping the pond water healthier. For clarity, a UVC (Ultra Violet Clarifier) will also help keep green water at bay.

However, while nearly all pond pumps are submerged, most biological pond filters are located externally, which is not always desirable when designing a water garden where space is tight.

A perfect solution for ponds up to 9000 litres is a combined submersible (All In One) pond pump with a built-in biological filter and UVC.

- Combined submersible pond pump with biological filter and UVC
- Pond pump for a fountain, waterfall or feature
- Biological filter to maintain water quality
- Combined UVC controlling green water
- Only one electrical supply required
- Easy to install and maintain
- Suitable for garden ponds up to 9000 litres\*

\*Not recommended for koi or high fish stocking density



## INPOND ALL IN ONE

SIMPLE TO INSTALL, IN POND SOLUTION. CREATES A CLEAR AND HEALTHY POND.

The Blagdon Inpond All In One is a complete in-pond solution, which includes pump, filter, UV clarifier and LED spotlight.

- Significantly lower maintenance than other in-pond solutions, due to the large filtration surface area. (up to 3 times larger)
- Stunning LED night illumination for your enjoyment throughout the evening
- Easy to change Polymer wool cartridge, to ensure crystal clear water
- Clear water guaranteed with our built in UV system
- Adjustable fountain extension and ball joint flow control adjuster
- 3 attractive fountain features, single daisy jet, super daisy jet and bell jet (+ tulip for the 6000 & 9000)
- 3 year guarantee
- Available in 4 sizes for ponds up to 9000 litres



INPOND MODEL	MAX FLOW LTRS	2000 SMALL POND		3000 MEDIUM POND		6000 LARGE POND		UVC WATTS	MAX HEAD	PUMP WATTS
		LTS	GALS	LTS	GALS	LTS	GALS			
2000	650	143	441	1500	330	1000	220	5	1.25	10
3000	700	154	461	2250	496	1500	330	5	1.25	10
6000	1500	330	1322	4500	991	3000	661	9	1.3	26.5
9000	3000	661	1982	6750	1487	4500	991	9	2	49.5



## EASYCLEAR

The EasyClear range comes in five sizes for ponds up to 9000 ltrs.

These fully integrated units combine a pump, filter and UVC and can be completely hidden in the pond.

They deliver clear and healthy water, are easy to install, and make an attractive fountain and/or waterfall

### EasyClear Benefits:

#### CLEAR WATER

- The UVC eliminates green water
- Filter foam sieves out solid particles in the water

#### HEALTHY WATER

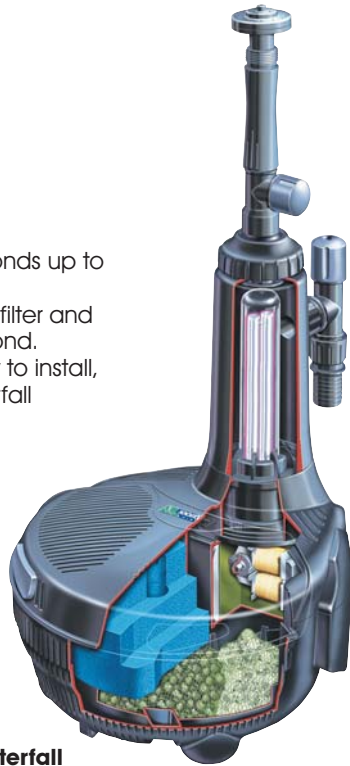
- Kaldnes biomedica ensures that the water is healthy for fish and plants

#### FOUNTAIN & WATERFALL

- Reliable and attractive fountain and/or waterfall display. (EasyClear 6/9000 simultaneous operation)
- 3 fountainhead options (2 tier, 3 tier and bell)

#### EASY INSTALLATION

- One power cable for simple installation.
- Ball joint for easily levelling of the fountainhead
- Fountain stem extension for varying pond depths



**Add the Hozelock LED FOUNTAIN LIGHT**  
Fits Hozelock Cascade & Easyclear Pumps (Not Included)



EASYCLEAR MODEL	MAX FLOW		PUMP POWER	1		2		3		UVC POWER
	LTS	GALS		LTS	GALS	LTS	GALS	LTS	GALS	
3000	1260	275	25	2500	550	2000	440	1000	220	5w
4500	1260	275	28	3750	825	3000	660	1500	330	7w
6000	1700	370	40	5000	1100	4000	880	2000	440	9w
7500	1700	370	43	6250	1380	6425	1415	2500	550	11w
9000	2850	625	55	7500	1650	5250	1150	3000	660	13w

# Oase

## FILTRAL UVC



OASE Filtral offers a multi-functional solution for small ponds and pre-formed pools of up to 9000 litres.

A compact filter unit with an integrated UVC and pump helping to create a healthy and attractive environment.

As the pond filter is integrated into the pump there is no need for an external filter system requiring hoses which can be difficult to hide.

### Compact high-performance filter with UVC and pump

- Guaranteed clear water
- Only one power cable
- Suitable for ponds of up to 9000 litres
- Four filter materials for optimum filtration
- Complete Filtral system can be submersed in the pond

Additionally the OASE Filtral is ideal for running a small waterfall or feature. If you desire a fountain this can be operated with the optional fountain jet and tee piece kit.

**Clear Water Guarantee.** The Filtral is supplied with a clear water guarantee when used in accordance with OASE recommendations.

These figures are for guidance only, please speak to a member of staff about your individual requirements. Alternatively for full details visit [www.oase.com](http://www.oase.com)



MODEL	MAX FLOW		1		2		UVC WATTS	MAX HEAD	TOTAL WATTS
	LTS	GALS	LTS	GALS	LTS	GALS			
FILTRAL 1500	560	123	1500	330	700	154	5	0.9	18
FILTRAL 3000	1200	264	3000	660	1500	330	9	1.8	63
FILTRAL 6000	1700	374	6000	1320	3000	660	11	2.1	52
FILTRAL 9000	1700	374	9000	1980	4500	990	13	2.1	58

# Adding life to your pond

## THE IMPORTANCE...

A pump brings your pond to life. The reflections, ripples and sounds of moving water, whether gentle or dramatic, will greatly enhance the beauty of your pond and your enjoyment of it.

More importantly, a pump will assist in maintaining the health of your pond by circulating and aerating the water. Good aeration will mean that oxygen levels in the water will be kept high even during the warmest weather, when fish could otherwise be at risk.

A pump could be described as the heart of the pond, enabling water to be run through ultra violet clarifiers and filters, or to fountains and waterfalls, adding life and health to the whole feature.



**General Purpose Pumps:** An all round garden pump designed to operate fountains, waterfalls and even filters

simultaneously.

They usually come complete with various fountain jets

and most now have a foamless prefilter for reduced maintenance. This pump is perfect for most small to medium sized garden ponds. These pumps are ideal to be used for fountains because the prefilter protects the small holes in the fountain head from constantly blocking. However the pre filter is still quite fine and does not allow larger solids to pass through to the filter, which is beneficial with koi or in larger ponds.



## WHICH ONE?

At World of Water you will find pumps of many different types and sizes. We can break them down into three general groups as follows:

**Feature Pumps:** A small pump designed to operate features such as pebble pool fountains, ornaments or small self contained features. They really aren't suitable for use in a garden pond due to the size of prefilter. Most models come with selected fountain attachments as standard.



**Solid Handling:** Designed to allow larger soft solids to pass through making these pumps perfect for filtration as they deliver waste straight to the filter. Also ideal for waterfalls as they rarely clog and need maintaining. Due to the design of these pumps they are not suitable for running fountains. Many water gardeners will use one of these pumps to operate their waterfall/filtration 24 hours a day and use a general purpose pump to operate a fountain which can be switched off when not required.

**It is very important to consider all your needs before purchasing a pump and this general guide has been provided to help you make the right choice.**

**However, there can be no substitute for a chat with one of our in-store experts who will be able to show you all the options available and suggest the correct pump for your individual requirements.**



### TIPS ON SELECTING A POND PUMP

*Always seek advice from an instore expert.*

*Ensure you have decided on all your requirements before choosing a pump.*

*Never purchase a pump which is only just powerful enough.*

*If only running a filter, consider a solid handling pump.*

*It can be advisable to run a separate fountain pump, to allow you to turn off your fountain without affecting your filter performance.*

### TIPS ON PLUMBING FOR POND PUMPS

*Always use the recommended hose size for the pump. Most pumps produce volume rather than pressure thus smaller diameter hose or inline restrictions will seriously reduce water flow.*

*Avoid very long lengths of hose.*

*Always ensure any stepped hose tails have been cut to the correct size.*

*Always use clips to secure your hose to fittings.*

*Try and keep plumbing as simple as possible.*

### TIPS ON INSTALLING ELECTRICITY FOR A POND PUMP

*Consult the manufacturer's instructions for installation.*

*Always use an R.C.D (trip switch). If in doubt consult a qualified electrician.*

*Ensure cables are suitably protected and buried with warning tape above.*

*Always use the correct outdoor cable, connectors and switch boxes.*

*Ensure the correct fuse rating is being used.*

### TIPS ON POSITIONING THE POND PUMP

*Position the pump to maximise circulation.*

*Keep the pump a couple of inches off the pond base with a brick.*

*Remember you may need regular access to the pump.*

*If running in the winter bring the pump onto a plant shelf (This helps the fish over winter successfully).*

*Keep the pump and any heavy water flow or splashing away from lilies.*

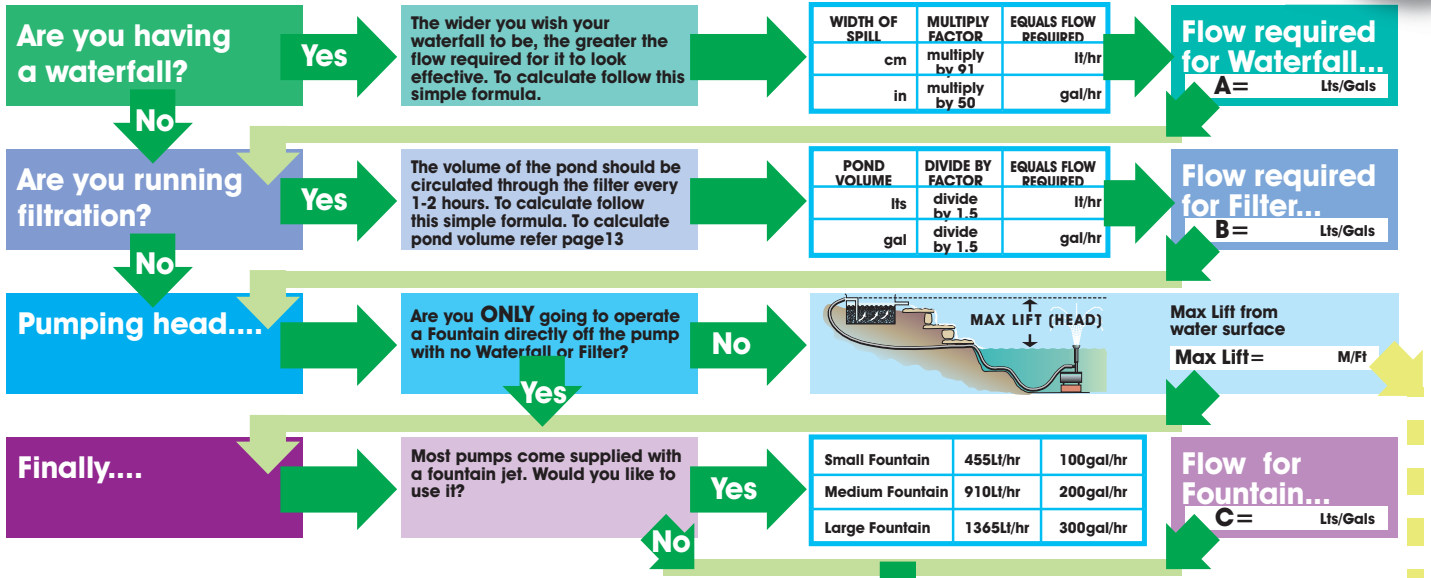
World of Water advise that a Qualified Electrician is consulted prior to installation of any electrical equipment in, on or near water or ponds.

Visit [www.niceic.org.uk](http://www.niceic.org.uk)

# A Simple Guide... To Help You Select Your Pond Pump...

**POND VOLUME P13**

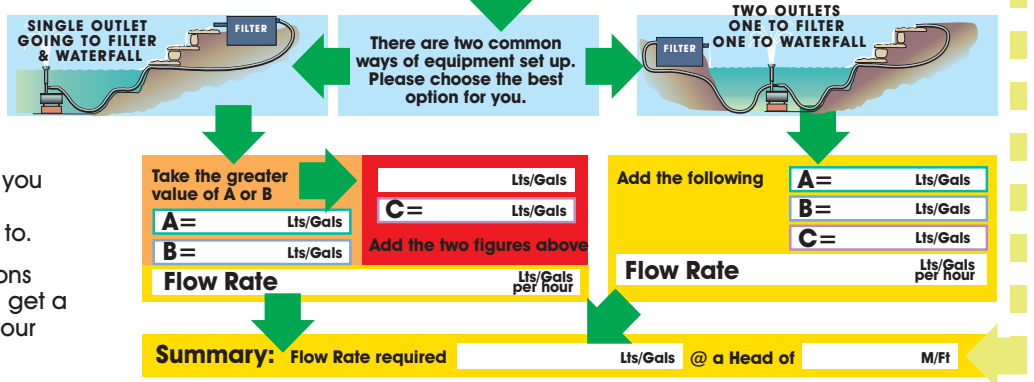
Follow the basic guide to calculate the size required for the three common uses of a pump. But always confirm your choice with one of our experts.



## Now you have the required information...

Now you know the volume of water you need to pump every hour and the maximum head you need to pump to.

It is possible to study the specifications tables over the next few pages and get a good idea of a pump that will suit your needs... (See example)



**Example:-** You need to pump at least 5500 Litres an hour to a head of 1.75m. This example has selected a pump which produces 6300 litres an hour at a 2 metre head. The table will rarely have an exact match so always over specify.

**It's easy to reduce the flow of a pump - impossible to increase it....**

EXAMPLE MODEL	MAX FLOW LTS GALS	FLOW @ .5M/1.65 FT LTS GALS	FLOW @ 1.0M/3.3FT LTS GALS	FLOW @ 1.5M/4.95FT LTS GALS	FLOW @ 2.0M/6.6FT LTS GALS	FLOW @ 3M /9.9 FT LTS GALS	POWER WATTS	SUITABLE FOR
3000	2820 620	2400 527	1980 435	1620 356	1110 244		40	
4000	3900 858	3600 792	3300 725	2850 627	2520 554	1410 310	60	
6000	6000 1320	5700 1254	5340 1174	4950 1088	4500 990	3600 792	100	
8000	7800 1716	7500 1650	7080 1557	6780 1491	<b>6300</b> 1386	5400 1187	170	
12000	12000 2640	11640 2560	11220 2468	10800 2375	10200 2243	9300 2045	280	



Next to each pump in this section you will find these symbols recommending what the pump can be used for. Ensure the pump you choose will cover all your requirements. Please note if a pump displays more than one symbol it does not necessarily mean that the pump can operate them all simultaneously.

- Fountain use
- Small feature
- Waterfall
- Filtration

locate your nearest electrical recycling facilities at [recycle-more.co.uk](http://recycle-more.co.uk)



**SOLAR FOUNTAIN PUMPS**



**Pontec Solar 150**

- Solar powered fountain in sunlight – no need for mains power
- 150 l/h, 6v pump
- 1.4 watt solar panel
- Includes 4 different nozzle heads
- 45cm max fountain height

With Remote Control

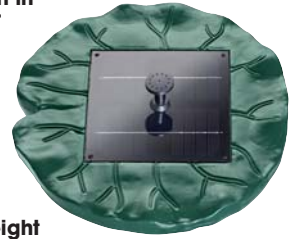


**PondoSolar 250 Control**

- Solar powered fountain – no need for mains power
- Battery backup for overcast conditions
- 250 l/h, 6v pump
- 3 watt solar panel
- LED Light
- Includes 4 different nozzle heads
- 60cm max fountain height

**PondoSolar Lily Island**

- Solar powered fountain in sunshine – no need for mains power
- 150 l/h, 6v pump
- 1.5 watt solar panel
- Floats on water surface
- Includes 4 different nozzle heads
- 30cm max fountain height



With Remote Control



**PondoSolar 600 Control**

- 600 l/h 12v pump
- 7 watt solar panel
- Battery backup - Li-ion rechargeable battery 7.4v - 4000 mAh
- 2 nozzle heads and LED lighting
- Includes remote control
- 80cm max fountain height

**liberty**<sup>®</sup>  
mains free features

Lithium Battery Powered  
 Solar Recharged



**POND OR FEATURE PUMP & LED LIGHT**

**Very low running costs:**  
Pump & light powered by high performance battery & solar panel

Make your own creative water feature with the comprehensive supplied

**Continuous on:** Runs for a maximum number of hours possible daily. Restarts automatically every morning. Ideal for wildlife ponds

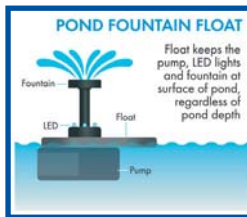
**OR Repeat Daily Timer:** Runs for 4 hours every day from time you choose. Can be set to automatically turn on during evening so you can enjoy your features when you get home.

**OR On Demand:** Instantly run for 4 hours. Great for impromptu BBQ's & garden parties



**FLOW CHART AT HIGH BATTERY LEVEL**  
(Flow rate in Litres/Hour)

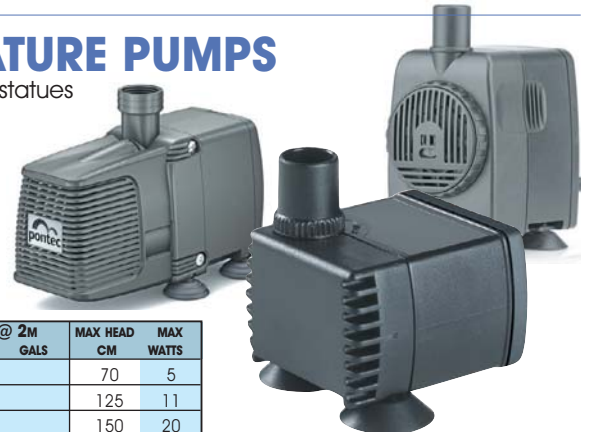
125	0
100	33
75	63
50	99
25	157
0	200
BATTERY LEVEL HIGH 8.4V	



**PondoCompact FEATURE PUMPS**

Splashing fountains, bubbling stones and statues

- Adjustable flow rate from 300 - 5000 l/h
- Maximum head of 3.1m
- Suitable for dry installation from 2000 onwards only.
- Hose connect up to 1" on larger models
- 10m power cable
- 2 year guarantee



PONDOCOMPACT FEATURE PUMPS	MAX FLOW LTS	MAX FLOW GALS	FLOW @ 0.5M LTS	FLOW @ 0.5M GALS	FLOW @ 1M LTS	FLOW @ 1M GALS	FLOW @ 1.5M LTS	FLOW @ 1.5M GALS	FLOW @ 2M LTS	FLOW @ 2M GALS	MAX HEAD CM	MAX WATTS
PondoCompact 300	300	65	180	37							70	5
PondoCompact 600	600	130	430	94							125	11
PondoCompact 800	750	165	600	132	360	79					150	20
PondoCompact 1200	1200	265	840	185	600	130	300	65			200	25
PondoCompact 2000	2000	440	1800	395	1350	295	900	200	300	65	220	32
PondoCompact 3000	3000	660	2490	650	2100	465	1680	370	1260	275	300	55
PondoCompact 5000	5000	1100	4320	950	3720	820	3000	660	2000	440	310	82

**Pump outlets**  
300 - 800: 13mm (1/2")  
1200: 13, 17 & 19mm (1/2" - 3/4")  
2000/3000: 19mm (3/4")  
5000: 25mm (1")



A range of exceptional value display fountain & waterfall pumps - Ideal for pebble pools, all ponds, fountains and water features.

**MINIPOND 700, 900 & 1600**

- Ideal for pebble pools, small pond fountains and water features
- Sectional riser pipes for adjusting height to pond depth, flow control valve and 3 fountain jets included

**MINIPOND 2000**

- Ideal to run fountains, waterfalls, filters and water features
- Advanced pre-filter cage prevents the pump from clogging
- Fountain T-piece, 20cm extension pipe, bell jet, daisy jet, foam jet and double daisy jet fountain heads and 3 T-piece hose tails



MINIPOND MODEL	MAX FLOW LTS	MAX FLOW GALS	FLOW @ 0.5m/1.65FT LTS	FLOW @ 0.5m/1.65FT GALS	FLOW @ 1.0m/3.3FT LTS	FLOW @ 1.0m/3.3FT GALS	FLOW @ 1.5m/4.95FT LTS	FLOW @ 1.5m/4.95FT GALS	FLOW @ 2.0m/6.6FT LTS	FLOW @ 2.0m/6.6FT GALS	POWER WATTS	MAX LIFT M	SUITABLE FOR
700	700	154	520	114	300	66					10	1.25	
900	900	198	800	176	400	88	330	72	100	22	18	2.0	
1600	1600	351	1309	287	890	195	400	88			24	1.8	
2000	2000	440	1640	360	1200	264	800	176	240	52	48	2.2	



**CASCADE POND PUMPS**

**Ideal All Purpose Pond Pump**

All models are now supplied with a ball joint for easy leveling of the fountain head.

The 450 has a new, easy-to-operate flow control.

All models are supplied with foam free strainers requiring less cleaning together with tool free access for cleaning and maintenance.

**Fountains** - All Cascades come complete with a telescopic fountain stem and a selection of distinctive fountain displays including a bell jet on the Cascade 700 upwards.

**Waterfalls** - The Cascade 700 will give a good small waterfall and the 4000 will give a torrent.

The Cascades 1500 & 4000 models come with a T-piece that enables simultaneous use.

**Water Features** - All models can run water features.

**Filtration** - water can be pumped to a filter and directly back to the pond, or down a waterfall. For more efficient filtration consider a Hozelock Titan solids handling pump.



MODEL	MAX LITS	MAX GALS	0.5m LITS	1.65FT GAL	1.0m LITS	3.3FT GALS	1.5m LITS	4.95FT GALS	2.0m LITS	6.6FT GALS	WATTS	MAX LIFT M	SUITABLE FOR
Cascade 450	450	99	210	46							10	1.0	
Small Cascade 700	700	154	400	88	120	30					13	1.2	
Medium Cascade 1500	1500	330	1250	275	900	198	400	88			30	1.8	
Large Cascade 4000	4000	877	3400	746	2800	614	1700	374	500	110	40	2.1	



**AQUARIUS UNIVERSAL**

- Models from 440 to 12000 litres per hour suitable for most water features
- Low level suction means less risk of running dry (from 600 upwards)
- Compact design, so will fit most self-contained features
- Stepped hose adaptor supplied allows simple dry-installation from 600 upwards
- 3 year + 2 additional years on model sizes 600 onwards



AQUARIUS UNIVERSAL	MAX FLOW LTS	MAX FLOW GALS	FLOW @ 0.5m/1.65FT LTS	FLOW @ 0.5m/1.65FT GALS	FLOW @ 1.0m/3.3FT LTS	FLOW @ 1.0m/3.3FT GALS	FLOW @ 1.5m/4.95FT LTS	FLOW @ 1.5m/4.95FT GALS	FLOW @ 2.0m/6.6FT LTS	FLOW @ 2.0m/6.6FT GALS	FLOW @ 3.0m/9.9FT LTS	FLOW @ 3.0m/9.9FT GALS	WATTS	SUITABLE FOR
440	440	97	180	40									5	
600	600	132	420	92	120	26							7	
1000	1000	220	720	158	420	92							15	
1500	1500	330	1080	238	720	158	300	66					18	
2000	2000	440	1560	343	1080	238	600	132					25	
3000 ECO	3000	660	2580	568	2220	488	1800	396	1260	277			40	
4000 ECO	4000	880	3600	792	3120	686	2640	581	2100	462	780	172	50	
6000	6000	1320	5520	1214	4980	1095	4440	977	3900	858	2700	594	110	
9000	9000	1980	8400	1848	7800	1716	7500	1650	7200	1584	5700	1254	195	
12000	12000	2640	11100	2442	10800	2376	9900	2178	9600	2112	7800	1716	270	

# Oase

## AQUARIUS FOUNTAIN SET

Simple, compact and versatile pond pump ideal for fountains, features and waterfalls (depending on model)

- Easy-to-install
- Second outlet with hose tail for 1/2" to 1 1/2" hose (depending on model)
- Includes 3 fountain jets (ECO models include Vulkan & Lava Jets)
- Adjustable swivel head to 15 degree.
- Thermal cut-off for safety
- Telescopic fountain extension - 33cm to 52cm
- 2 year guarantee, extendable on request to 3 years



OASE AQUARIUS FOUNTAIN SET	MAX FLOW LTS	FLOW GALS	FLOW @ 0.5M LTS	FLOW @ 0.5M GALS	FLOW @ 1M LTS	FLOW @ 1M GALS	FLOW @ 1.5M LTS	FLOW @ 1.5M GALS	FLOW @ 2M LTS	FLOW @ 2M GALS	FLOW @ 3M LTS	FLOW @ 3M GALS	POWER WATTS	MAX HEAD M	SUITABLE FOR
Fountain Set Classic 750	720	159	480	106	6	1							9	1.1	
Fountain Set Classic 1000	1000	220	660	145	270	59							11	1.3	
Fountain Set Classic 2000 E	2100	463	1920	423	1320	291	720	159	300	66			18	2.1	
Fountain Set Classic 3000 E	3000	661	2760	608	2340	515	1980	436	1320	291			26	2.5	
Fountain Set Classic 4000 E	4000	881	3660	806	3180	700	2700	595	2040	449			42	2.9	
Fountain Set 5500 ECO	5500	1211	4800	1057	3780	826	3360	740	2580	568	1140	251	70	3.8	
Fountain Set 7500 ECO	7500	1650	6450	1421	5580	1229	4680	1031	3720	819	1860	410	85	4.0	
Fountain Set 9500 ECO	9500	1718	8700	1916	7620	1678	6900	1520	5820	1282	3960	872	125	5.2	

Fountains and fittings will vary depending on model selected



## AMPHIBIOUS IQ ENERGY SAVER POND PUMPS

### Digital Motor Technology

Digital motors convert less electrical energy to heat than conventional pump motors, saving energy. Microprocessor control and monitoring allows for a host of convenient and energy saving features for your pond or water feature.

**Motor Protection System & Run Dry Protection System:** If the pumps detects its clogged or no water it will pause and display a message.

**Flexible Power Usage Control & Display:** Stop, start or increase or decrease power and flow at a push of a button for optimum performance and maximum energy saving.

**Soft Start:** When the pump is turned on the flow will slowly increase to its pre-set position. This reduces pump wear and reduces stresses on pipework and filters decreasing the risk of leaks and damage.

- For Filters & Waterfalls
- Powerful & Economical
- Adjustable to suit pond & season
- Low Maintenance



### TO RUN FILTERS AND WATERFALLS



AMPHIBIOUS IQ MODEL	MAX FLOW LTS	FLOW GALS	FLOW @ 1M LTS	FLOW @ 1M GALS	FLOW @ 1.5M LTS	FLOW @ 1.5M GALS	FLOW @ 2M LTS	FLOW @ 2M GALS	FLOW @ 3M LTS	FLOW @ 3M GALS	FLOW @ 3.5M LTS	FLOW @ 3.5M GALS	MAX WATTS	PUMP HEAD M	
<b>STANDARD POND</b>	IQ 2250-4500	4900	1079	2800	617	2100	463	1400	308				25	3	
<b>MEDIUM POND</b>	IQ 3000-6000	5900	1300	4800	1057	3900	860	3050	672	1750	385	875	192	35	4.2
<b>LARGE + POND</b>	IQ 4500-9000	8700	1916	6200	1366	5100	1123	3500	771	2000	441	1300	286	60	4.5
<b>EXTRA LARGE POND</b>	IQ 6000-12000	11200	2467	7900	1740	6200	1366	5800	1278	3600	793	2900	639	85	5



# AQUAMAX FILTER PUMPS



The Aquamax was one of the first solid handling pond pumps specially designed with pond filtration in mind.

Designed in Germany to take suspended solids direct to the filter for treatment rather than allowing them to break down in the pond.

## Aquamax Eco CLASSIC

- Energy-efficient motor
- Can save up to 25% energy compared to traditional pumps.
- Pumps debris up to 8 mm in size
- Hose outlet has ball joint for easy hose direction.
- Stepped hoesetail for connecting 3/4", 1", 1 1/4" and 1 1/2" hoses



AQUAMAX ECO CLASSIC MODEL	MAX FLOW LTS	MAX FLOW GALS	FLOW @ 0.5M LTS	FLOW @ 0.5M GALS	FLOW @ 1M LTS	FLOW @ 1M GALS	FLOW @ 1.5M LTS	FLOW @ 1.5M GALS	FLOW @ 2M LTS	FLOW @ 2M GALS	FLOW @ 3M LTS	FLOW @ 3M GALS	MAX HEAD M	MAX WATTS	SUITABLE FOR
Aquamax Eco Classic 2500E	2600	573	2040	449	1320	291	840	185	120	26			2.2	23	
Aquamax Eco Classic 3500E	3500	771	2880	634	2280	502	1500	330	720	159			2.6	35	
Aquamax Eco Classic 5500	5300	1167	4260	938	3300	727	2340	515	1440	317			2.8	60	
Aquamax Eco Classic 8500	8300	1828	6900	1520	5580	1229	4260	938	3060	674	480	106	3.2	80	
Aquamax Eco Classic 11500	11000	2423	9300	2048	7680	1692	5880	1295	5580	1229	1020	225	3.3	100	
Aquamax Eco Classic 14500	13600	2996	11580	2551	9600	2115	7680	1692	5520	1216	1560	344	3.4	135	
Aquamax Eco Classic 17500	17400	3830	15600	3436	12600	2770	10680	2352	8100	1784	3300	727	3.7	170	

## Aquamax Eco CLASSIC C

- 3 exciting new additions to the AquaMax Eco Classic range
- Features a smart control system with an integrated controller,
- Can be controlled via a separate app on your smart phone or tablet
- Can be easy installed and removal thanks to a easy plug connection on the controller



AQUAMAX ECO CLASSIC C MODEL	MAX FLOW LTS	MAX FLOW GALS	FLOW @ 0.5M LTS	FLOW @ 0.5M GALS	FLOW @ 1M LTS	FLOW @ 1M GALS	FLOW @ 1.5M LTS	FLOW @ 1.5M GALS	FLOW @ 2M LTS	FLOW @ 2M GALS	FLOW @ 3M LTS	FLOW @ 3M GALS	MAX HEAD M	MAX WATTS	SUITABLE FOR
AquaMax Eco Classic 9000 C	8800	1936	6900	1518	5880	1293	4800	1056	3000	660			4.5	23-90	
AquaMax Eco Classic 12000 C	12000	2640	9600	2112	8100	1782	6900	1518	4200	924			4.7	26-120	
AquaMax Eco Classic 18000 C	17600	3871	14400	3168	12720	2798	10920	2402	7680	1689	900	198	5.3	33-175	

## Aquamax Eco PREMIUM

- Energy-efficient motor
- Reliable flow rate with even lower energy consumption
- Intelligent frost protection technology- Frost protection to temperatures as low as -20 °C
- Second inlet allows water to be drawn from different pond zones (accessories required)
- Flow control - mechanically and electronically (accessories required)
- Solids up to 11mm
- Environmental Function Control protects against dry run and blocking



**SFC Switch**  
Aquamax Eco Premium 12,000, 16,000 & 20,000  
Reduces flow and head by 50% & power up to 30%

AQUAMAX ECO PREMIUM MODEL	MAX FLOW LTS	MAX FLOW GALS	FLOW @ 0.5M LTS	FLOW @ 0.5M GALS	FLOW @ 1M LTS	FLOW @ 1M GALS	FLOW @ 1.5M LTS	FLOW @ 1.5M GALS	FLOW @ 2M LTS	FLOW @ 2M GALS	FLOW @ 3M LTS	FLOW @ 3M GALS	MAX HEAD M	MAX WATTS	SUITABLE FOR
Aquamax Eco Premium 4000	4000	880	3360	739	2700	594	2100	462	1500	330	180	40	3.3	35	
Aquamax Eco Premium 6000	6000	1320	5100	1122	4320	950	3480	766	2700	594	1020	224	3.7	45	
Aquamax Eco Premium 8000	8000	1760	6960	1531	6000	1320	4920	1082	4020	884	1920	422	4.1	60	
AquaMax Eco Premium 10000	10000	2203	9120	2009	8400	1850	7500	1652	6540	1441	3720	819	4.7	88	
Aquamax Eco Premium 12000	12000	2640	10800	2376	9600	2112	8400	1848	7200	1584	4800	1056	5.0	110	
Aquamax Eco Premium 16000	15600	3432	13500	2970	12120	2666	10680	2349	9180	2019	6300	1386	5.2	145	
Aquamax Eco Premium 20000	19500	4295	17760	3912	15720	3463	14100	3110	12360	2755	8700	1920	5.4	180	

## Aquamax Eco TWIN

- The professional's pump with two individually remote controllable motor units
- Capable of dealing with dirt particles of up to 11mm diameter
- Second inlet allows water to be drawn from different pond zones (accessories required).



### Controller with LED display

Motors and flow rates can be controlled via remote control. It will adjust both motors at the same time.



AQUAMAX ECO TWIN MODEL	MAX FLOW LTS	MAX FLOW GALS	FLOW @ 0.5M LTS	FLOW @ 0.5M GALS	FLOW @ 1M LTS	FLOW @ 1M GALS	FLOW @ 1.5M LTS	FLOW @ 1.5M GALS	FLOW @ 2M LTS	FLOW @ 2M GALS	FLOW @ 3M LTS	FLOW @ 3M GALS	MAX HEAD M	MAX WATTS	SUITABLE FOR
Aquamax Eco Twin 30000	27000	5939	24300	5345	21780	4791	19200	4223	16560	3643	11400	2508	5.2	320	



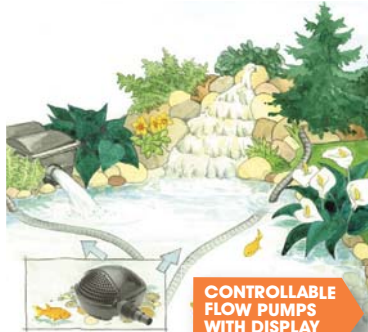
## PONTEC PONDOMAX ECO POND PUMPS

Energy-efficient pump for water courses and filtration

- Suitable for solid handling of particles up to 4 - 8 mm
- Stepped hose adapter included
- Including thermal cut-off switch



Control Unit for Eco C Range



CONTROLLABLE FLOW PUMPS WITH DISPLAY

PONDOMAX MODEL	MAX FLOW LITS	FLOW @ 0.5M GALS	FLOW @ 0.5M LITS	FLOW @ 1M GALS	FLOW @ 1M LITS	FLOW @ 1.5M GALS	FLOW @ 1.5M LITS	FLOW @ 2M GALS	FLOW @ 2M LITS	FLOW @ 3M GALS	FLOW @ 3M LITS	POWER WATTS	MAX LIFT M	SUITABLE FOR	
Eco 1500	1500	330	1100	242	700	154	300	66				25	1.9		
Eco 2500	2500	551	1900	419	1350	297	800	176	220	48		40	2.2		
Eco 3500	3600	792	2760	607	1980	436	1080	238	300	66		45	2.2		
Eco 5000	5000	1101	4500	991	3700	815	2800	617	1800	396		60	2.6		
Eco 8000	8000	1762	7000	1542	5700	1256	4100	903	2650	584		70	2.8		
Eco 11000	10000	2203	9000	1982	7750	1707	6230	1372	4500	991		95	3		
Eco 14000	13400	2952	12000	2643	10300	2269	8100	1784	5880	1295	1470	324	140	3.2	
Eco 17000	17000	3740	15000	3300	12300	2700	9900	2180	7200	1585	2400	528	180	3.5	
Eco 18500C	8300	1825	7500	1652	6600	1454	5500	1211	4500	990	2400	528	70	4.5	
Eco 10300C	10300	2266	9000	1980	8000	1760	6500	1430	5500	1210	3500	0	100	4.6	
Eco 17500C	17300	3805	15000	3305	13500	1970	11500	2530	7500	1650	6000	1320	175	4.7	

# Oase

## ECO EXPERT PUMPS

THE NEXT GENERATION OF THE POWERHOUSES

- DMX connection for EGC or Eco control
- New, energy-efficient pump generation for extremely powerful and economic delivery capacity
- Robust and durable stainless steel housing
- Unique, patented frost protection down to -20°C
- Protection against dry run & blocking through Environmental Function Control
- Can be setup underwater & dry
- Quiet operation; ideal for use in a pump chamber
- Guarantee: 3 Years + 2 Years Request = 5 Years
- MADE IN GERMANY

*Aquarius Models Only*

- DFC (Dynamic Function Control - Built into Aquarius Eco Expert - Preset fountain display etc.

*Aquamax Models Only*

- Patented »Seasonal Flow Control« for intelligent and environmentally-conscious regulation of flow rate and delivery head
- 30% energy savings is possible with SFC switched on
- Perfect for use in large filter systems and large watercourses
- Handles coarse debris up to 11mm in size



Titanium

FEATURE PUMPS

FILTER & WATERFALL PUMPS

WET OR DRY INSTALL PUMP

OASE UK AQUAMAX MODEL	MAX FLOW LITS	MAX FLOW GALS	FLOW @ 0.5M/1.65FT LITS	FLOW @ 0.5M/1.65FT GALS	FLOW @ 1.0M/3.3FT LITS	FLOW @ 1.0M/3.3FT GALS	FLOW @ 1.5M/4.95FT LITS	FLOW @ 1.5M/4.95FT GALS	FLOW @ 2.0M/6.6FT LITS	FLOW @ 2.0M/6.6FT GALS	FLOW @ 3.0M/9.9FT LITS	FLOW @ 3.0M/9.9FT GALS	MAX HEAD M	MAX WATTS
AQUARIUS ECO EXPERT 22000	22000	4846	20880	4599	19800	4361	19320	4256	18300	4031	16500	3634	9.6	350
AQUARIUS ECO EXPERT 28000	27900	6145	26940	5934	25800	5683	25320	5577	24120	5313	22500	4956	10.0	440
AQUARIUS ECO EXPERT 36000	36000	7930	34200	7533	33000	7269	30900	6806	29400	6476	25500	5617	10.2	550
AQUARIUS ECO EXPERT 44000	43980	9687	42900	9449	40800	8987	39000	8590	36900	8128	33000	7269	10.5	700
AQUAMAX ECO EXPERT 21000	21000	4626	20280	4467	19320	4256	18600	4097	17700	3839	15900	3502	8.0	350
AQUAMAX ECO EXPERT 26000	26000	5727	24600	5419	23700	5220	22500	4495	21480	4731	19200	4229	8.5	440
AQUAMAX ECO EXPERT 36000	36000	7930	34500	7599	32700	7203	30900	6806	29400	6476	25680	5656	9.0	540
AQUAMAX ECO EXPERT 44000	43980	9687	42300	9317	40320	8881	39000	8590	36720	8088	33000	7269	9.5	700
AQUAMAX ECO TITANIUM 31000	31500	6929	28500	6269	24000	5279	19200	4223	12900	2838	0	0	3.3	170
AQUAMAX ECO TITANIUM 51000	51000	11218	46500	10229	40500	8909	36000	7919	25500	5609	12000	2640	4	320
AQUAMAX ECO TITANIUM 81000	81000	17841	74400	16388	67200	14802	61200	13480	50400	11101	37200	8194	5	750

# Oase

## PONDJET ECO FLOATING FOUNTAIN PUMP

Decorative water displays can be quickly achieved without complex installation.

Depth of the water or a silty pond base do not pose a problem. Perfect for use at short notice or temporary displays.

- Includes: Fountain Pump, float body & multi-function fountain jet
- Energy efficient with new motor - now saves up to 60% compared to previous model
- Pre-set fountain program to create a small show with dynamic function control
- Water fountains up to 3m in height and width
- Frost protection to -20°C
- Additional Fountain Jets Available: Schaumsprudler 35-10 E, Vulkan 37 - 2.5 K and Vulkan 43 - 3 silver
- Optional Lighting Set: Includes 3 spot lights and transformer (42673 or 42641)
- MADE IN GERMANY: Precise and reliable German engineering art at a high level of quality



Choice of two optional light sets



## AQUAFORCE PUMPS

Solid handling pumps for filtration, waterfalls and watercourses

The Aquaforce range sets unprecedented performance and efficiency benchmarks in flow rates and head heights, while using less power than conventional systems. The wildlife protection system, ensures that small fish, newts and frogs can not access the pump, the integral carrying handle makes the Aquaforce easy to lift into or out of the pond.

### Key Features:

- Conical impeller - maximises performance
- Self Cooling System - gives continuously perfect conditions
- Ceramic Bearings - maximise pump life
- Large cage surface area - reduces cage clogging & improves water purity
- Wildlife Protection System - protects small fish, newts, frogs, etc from accessing the pump
- Carry handle - easy lifting in and out of the pond

### Aquaforce 6000 and above

- Feature a second inlet to operate optional skimmers etc.
- May be operated ambiguously
- 5 Year (3+2 year) Guarantee
- Solids up to 10mm



**5**  
**(3+2)YEAR**  
**Guarantee**

AQUAFORCE MODEL	MAX FLOW LTS	MAX FLOW GALS	FLOW @ 0.5M/1.65FT LTS	FLOW @ 0.5M/1.65FT GALS	FLOW @ 1.0M/3.3FT LTS	FLOW @ 1.0M/3.3FT GALS	FLOW @ 1.5M/4.95FT LTS	FLOW @ 1.5M/4.95FT GALS	FLOW @ 2.0M/6.6FT LTS	FLOW @ 2.0M/6.6FT GALS	FLOW @ 3.0M/9.9FT LTS	FLOW @ 3.0M/9.9FT GALS	WATTS	MAX LIFT M	SUITABLE FOR
2500	2500	550	2125	468	1750	385	1300	286	875	193	NA	NA	30	2.2	
4000	4000	880	3400	748	2800	616	2300	506	1400	308	NA	NA	50	2.5	
6000	6000	1320	5250	1155	4500	990	4600	1012	2850	627	1450	319	65	3.8	
8000	8000	1760	7400	1628	6800	1496	6200	1364	4900	1078	2700	594	95	4	
12000	12000	2640	11000	2420	10000	2200	9600	2112	8200	1804	4500	990	130	5.5	
15000	15000	3300	13750	3025	12500	2750	11750	2585	9800	2156	6500	1430	180	6.5	



**MudDrain comes with FLOAT SWITCH for automatic on-off operation**

## PROMAX MudDrain & ClearDrain PUMPS

Water in the basement? Or do you simply want to transfer clean or murky water?

OASE new range of submersible pumps are perfect for the job.

OASE ProMax ClearDrain - for clean water and the OASE ProMax MudDrain for dirty water with generously-sized motors pumping up to 30,000 litres per hour.



PROMAX MODEL	MAX FLOW RATE LTS	MAX FLOW RATE GALS	FLOW @ 3M HEAD LTS	FLOW @ 3M HEAD GALS	FLOW @ 6M HEAD LTS	FLOW @ 6M HEAD GALS	FLOW @ 9M HEAD LTS	FLOW @ 9M HEAD GALS	MAX HEAD M	MAX WATTS
PROMAX ClearDrain 7000	7000	1542	4000	881	1000	220			7	375
PROMAX ClearDrain 11000	11000	2423	6800	1498	2800	617			8	650
PROMAX ClearDrain 14000	14000	3084	11500	2533	7000	1542	3750	826	12	950
PROMAX MudDrain 7000	7000	1542	2800	617					5	325
PROMAX MudDrain 11000	11000	2423	6000	1322	1750	385			7	625
PROMAX MudDrain 14000	14000	3084	10000	2203	6250	1377	2250	496	11	950
PROMAX MudDrain 20000	20000	4405	12200	2687	7000	1542	1600	352	10	950
PROMAX MudDrain 25000	25000	5507	17800	3921	9500	2093	2800	617	10	1200
PROMAX MudDrain 30000	30000	6608	21800	4802	15000	3304	7500	1652	12	1500

### ProMax Rain 4000

Perfect for garden irrigation with an Automatic switching on and off by the float switch.

Fine filter screen prevents the suction of dirt particles and clogging.

A special channel impeller allows a high water pressure making the ProMax Rain ideal for irrigation.



### ProMax Garden Classic

Powerful external irrigation pump with two models 3000/4500 available.

Self-priming up to 8m with an easy filling feature.



Testing  
Your Water  
P64 & P67

## Introducing Fish

### PLEASE DON'T RUSH!

With a suitable dechlorinator it is possible to introduce a few fish into a pond as quickly as 48 hours after the pond has been filled.

However, World of Water recommends waiting for approximately 4 weeks after the pond has been planted, allowing them to establish providing shelter and natural nourishment. It also enables your filter to begin to mature, helping it cope with the waste from your new fish.

**TIP:** Avoid introducing large quantities of fish at one time; Always stock a pond gradually over a period of months. Remember to monitor the water quality with a test kit.

### How many fish?

Ponds will vary in planting density and filtration capacity, which will affect possible stocking levels.

A good rule for initial stocking is 5cm or 2in of fish per 0.1 sq. m (1 sq. ft) of surface area, allowing space for the fish to grow, and remember, fish can breed quite quickly.

### Introducing new fish

Before purchasing new fish it is essential to test the water. Remember that established fish in the pond can become acclimatised to a gradual decrease in water quality over time, which could be fatal to new arrivals.

Fish are supplied in strong plastic bags. The fish will be pretty happy in these bags for a couple of hours, but keep them cool, quiet, and shaded.

Once home, float bag unopened on the water surface for 20 minutes. Open the bag by untying or cutting off the very top. Carefully roll the bag down halfway and gently pour in some pond water (approximately 1/3 the floating bag volume). Wait 10 minutes. Repeat this water introduction twice more at the same interval. Carefully net the fish out of the bag and release them. Dispose of the water in the bag. (Ensure the top of the bag does not close up while acclimatising, as this will starve the fish of oxygen.)

## Feeding Your Fish

In established pools, with a good balance of plants, wildlife and fish. There will be plenty of natural food, and feeding acts as a supplement to their diet and is enjoyable for the pond keeper. However, in heavily stocked ponds or one that lacks any natural food sources, feeding is vital to the fish's well-being. Correct feeding ensures fish health, growth and ability to breed and allows the fish to build up reserves for the winter.

Many different foods are available, offering varying protein levels, health, and colour enhancers. Some foods are formulated with wheatgerm for feeding in cooler temperatures. In contrast, other foods contain higher protein levels and are only suitable for summer feeding when the fish can easily digest the food. Care must be taken to feed correct food for the conditions and fish varieties.

### When to feed your fish

When the water temperature is between 5-8°C, and the fish appear active during the cooler months, feeding your fish on a "winter food" once a day will be more than sufficient. Once the water temperature reaches 8-10°C, feeding can be increased to two or three times a day, using a high protein "spring or summer food".

**TIP:** Any uneaten food will break down, causing toxic pollutants. Containing the food in a feeding ring makes it easier to remove uneaten food after 5 -10 minutes.

### Tips on feeding your fish

Feeding fish ensures your fish receive the correct balanced diet and supplements any natural diet found in the pond.

Be careful to feed the correct food for prevailing conditions.

Don't feed under 5°C (water temp).

Remove leftover food after 5-10 minutes.

It is best to feed your fish at about the same time each day.

Overfeeding will cause poor water conditions and ill health to fish. (Test water regularly).

## WHICH POND FISH?

It's best to have a balance of fish, with bottom, mid and surface feeders all doing their own part for the pond's eco system. Remember some fish such as koi grow very large and are unsuitable in small ponds.

### Goldfish

Easiest of the pond fish to keep, being a member of the carp family they can vary in colour from a red to very light gold. They will breed easily producing black young that may turn gold later in the right conditions. Goldfish can grow to 30cm but in normal British conditions they will probably reach 20cm (8in).



### Shubunkins

Similar to goldfish they come in a multitude of colours including reds, greys and blues.



### Koi

These most spectacular fish can reach 60cm to 90cm (2-3ft) in size and come in an array of colours and patterns. Unfortunately really only suitable for larger purpose-built ponds with a depth of at least 0.9m (3ft).



### Sarasa Comets

From the same family as goldfish, but have bright red patches on a white background.



### Tench

Very useful bottom feeders, clearing up any uneaten food etc. Once introduced into a pond it's likely you will not see them often as they stay at the bottom and their olive or green/brown colour tends to blend them into the background. A golden variety is often available.



### Golden Orfe

Orfe can grow up to 40cm (18in) and prefer to be kept in shoals. They are useful surface feeders, keeping the insect population in check. Blue Orfe are sometimes available. Should not be kept in smaller ponds or where there is no pump, as they require plenty of oxygen.



## NISHIKOI® GOODBYE NEW POND PROBLEMS

**Jump starts new ponds. Filter starter and tapwater dechlorinator combined in an easy-to-use water-soluble sachet. Reduces New Pond Syndrome problems.**

# Oase

## DYNAMIX Pond Fish Food



**OASE's first food for all pond fish, including koi.**

**DYNAMIX** is perfectly formulated to promote fish health and welfare whilst creating the best conditions for excellent water quality. This high-quality fish food encourages efficient digestion and a robust immune system that naturally ensures growth and beautiful intense colours.

**DYNAMIX contains OASE AminoBoost:**

The Amino acids boost allows fish to almost completely digest the rich diet. This improved digestion benefits water quality, and fish health as less digestible foods can cause high toxin levels in the pond as they break down.

**DYNAMIX promotes fish growth and intense colours:** Easily digestible carbohydrates and a balanced supply of omega-3-rich fats mean the fish can optimally utilise DYNAMIX, while the natural pigments in the food contribute to intense colouration and contrasting patterns.

**DYNAMIX strengthen fish immune system:**

Valuable dietary fibres support the growth of healthy intestinal bacteria. The prebiotic ingredients in the formula help to ensure healthy intestinal flora, which has a positive effect on the immune system.

### DYNAMIX FLAKES

These easy-to-digest flakes for small and young fish contain valuable salmon oil for energy. Rich in essential omega-3 fatty acids, the flakes increase the temperature tolerance of the fish and help to build up their immune system.

### DYNAMIX STICKS VITAL

Specially developed for naturally coloured fish, the sticks have prebiotic properties thanks to the added pepper. This helps improve the absorption of vitamins and minerals.

### DYNAMIX STICKS COLOUR

Perfect for fish with red pigments. Easily digestible carbohydrates in the form of fermented red rice, combined with natural pigments made of shrimp meal and prebiotic pepper all help strengthen the colouration.

### DYNAMIX STICKS MIX

For ponds with mixed fish, OASE offers a mix of Sticks Vital and Sticks Colour. It contains all the positive properties of both varieties and supports both digestion and colour intensity.

### DYNAMIX STICKS MIX + SNACK

The addition of shrimps to the Sticks Mix food ensures that the food is delicious as well as promoting bone and scale growth.

### DYNAMIX SUPER MIX

This Super Mix of flakes, sticks and pellets is perfect for a mix of fish, offering variety and richness in essential omega-3 fatty acids.

### DYNAMIX KOI PELLETS

Designed for koi, available in small or large pellets. It contains soybean meal to ensure good body growth without the risk of obesity. The mix also combines green superfood pellets with spirulina and pellets with fermented red rice to promote colour development and support a healthy metabolism.

**World of Water**

**PREMIUM**

With over 30 years experience selling fish food, World of Water have created this Premium quality food.

This range of easily digestible foods contain all the vital ingredients for growth, vitality and health and are suitable for koi and all other pond fish.



**Premium**



**Fish Foods**

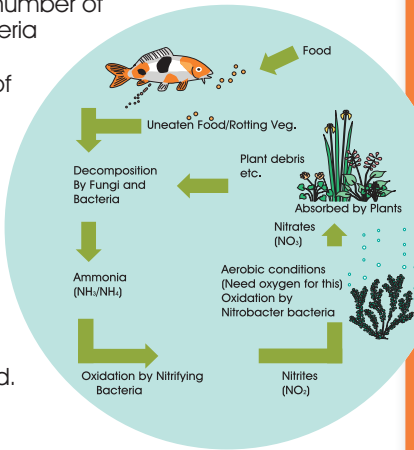
**Sticks  
Pellets  
Flake  
Wheatgerm**

# Pond & Fish Health & Care

## POND & FISH – COMMON PROBLEMS

### Healthy water means healthy fish!

Once you have completed your pond, installed your filtration and introduced your fish and plants, it is important to monitor water quality regularly. Using a simple test kit, for the "settling down" phase of your pond's life, will bring any potentially harmful water quality problems to light. It is during this initial period, which may vary from six weeks to three months depending on the number of fish and plants, that the build up of beneficial bacteria takes place in both the filter and the pond itself. These bacteria are responsible for the breakdown of harmful toxins that are produced from uneaten food, fish waste and any other dead and decaying matter in the water. The level of helpful bacteria in a pond will need to increase naturally as more fish are added, therefore it is very important not to over stock or over feed fish in your new pond. Once this "Nitrogen Cycle" (illustrated below) has become balanced, the majority of ponds should require little maintenance although occasional testing of the water for ammonia and nitrite is always to be recommended.



## WATER QUALITY

Poor water quality is the primary reason for most problems with fish health. In certain conditions it can also be responsible for algae blooms resulting in green water. However, it should be noted that, clear water is never a guarantee of healthy water and therefore there can be no substitute for regular testing of the water in your pond. The pH level is the first basic test, ideally the results should show a pH level between 6 - 8, with 7 being perfect. A pH of over 8 is often caused by untreated or excessive cement work.

Such ponds will often suffer more from algae problems and the fish will be more vulnerable to ulcers. Low pH values can be caused by use of acidic rocks or rotting vegetation and a lack of adequate filtration.

The other common tests are Ammonia, Nitrite and Nitrate. High levels of any of these toxins are usually associated with filtration problems, immature ponds or inadequate planting. They can also be caused by over-feeding, over-stocking or rotting vegetation in the pond, when there is not enough helpful bacteria present to break these toxins down.

## POND FISH PROBLEMS SOLVED

Never presume problems are going to disappear. Always take action if you feel there are health problems, but don't pour treatments in until you're certain of the problem.

Firstly... Test the Water. The majority of fish mortality and health problems are caused by poor water conditions. In this case it will be necessary to adjust the water quality as well as treating fish.

### Symptoms



**Fish swimming rapidly and erratically. Visual parasites.**

### Recommended treatments

**Apply a parasite treatment**



**Bloated body, swollen eyes and scales like - pine cone.**

**Apply ulcer treatment and isolate**



**White 'cotton wool' patches.**

**Apply a fungus treatment**



**Loss of colour, ragged fins, mucous shedding from skin.**

**Apply a bacterial treatment**



**Fish rubbing on plants and flicking. Reddening on skin, white spots.**

**Apply parasite treatment**



**Holes in skin (ulcers) reddening of skin.**

**Apply an ulcer treatment**



**Difficulty breathing, gulping. Do not confuse with oxygen shortage.**

**Apply a bacterial treatment**

## TIPS FOR HEALTHY FISH

To keep fish healthy, the key is keeping the water healthy.

Test the water regularly for toxins and pH levels.

Toxin levels can be kept at a minimum by filtration and careful planting in the pond.

If water quality is consistently poor, it may be that the filter needs upgrading.

It is essential to test the water before purchasing fish. Remember that established fish in the pond can become acclimatised to a gradual decrease in water quality over time, which could be fatal to new arrivals.

# Oase

## DUO BOOST

The two-phase booster for a healthy pond biology: simply add some AquaActiv DuoBoost to the water.

The innovative bacteria gel and optimally chosen minerals work in a double action to activate the natural pond biology of the water in a quick and easy process.

Get the double power for the natural clarity of your pond now.



## OASE POND TREATMENTS

Everything you need to keep your pond healthy. A new improved range of treatments from OASE including...

**Algae Preventer:** Removes algae nutrients and phosphates, quick-acting

**Direct Blanketweed Control:** Combats stubborn string algae quickly

**Green Water Clarifier:** Removes suspended algae, binds up to 110g of phosphate

**Pond Dechlorinator:** Removes chlorine & heavy metals, provides bio protection of mucus membrane

**Pond Filter Starter:** Stimulates filter bacteria, removes ammonia and nitrite

**Pond Water Clarifier:** Crystal clear water fast, also removes phosphates

**Pond Water Stabiliser:** Improves water quality and ensures long fish life

**Probiotic Pond Starter:** Creates an ecological balance, contains important lactic acid bacteria

**Total Algae Control:** Active and long-lasting against most algae species



# COMMON ALGAE PROBLEMS

**GREEN WATER...** can be unsightly. It is caused by a bloom of algae, which is feeding on all the excess nutrients created from fish faeces, uneaten food and rotting vegetation.

**The long term cure...** Installing a biological filter and Ultra Violet Clarifier system and establishing a good selection of plants to digest the excess nutrients will both assist in the reduction.

**Short term...** If it is a new pond that has not yet balanced, there are a number of products available, which will reduce green water. It is recommended, if you have a planted pond, to use an environmentally friendly treatment that will not hinder the growth of your plants.

**Even established ponds go green occasionally...** In certain conditions these ponds can go green due to a number of reasons, such as high sunlight levels in early spring before plants have established themselves. Either install an ultra violet clarifier or use treatments on a short-term basis.



## TIPS ON AVOIDING ALGAE

**New ponds should be heavily planted.**

**Try to have up to two thirds of the pond surface covered with plants.**

**Avoid over feeding fish and remove excess food.**

**Install and maintain an Ultra Violet Clarifier.**

**Successful control needs to start before the algae takes hold. Therefore consider starting treatment in early spring.**

**Avoid changing the pond water... This introduces fresh nutrients for the algae to thrive on.**

**Always remove as much blanket weed physically, before treatment.**

**BLANKET WEED...** is a real nuisance, like a green, slimy, candy floss – it can rapidly take over should there be enough nutrients and sunlight for it to thrive on. So again, a mature well-balanced pond will suffer less.

## CONTROL...

### Powders, Liquid & Alternative Treatments

There are now non-algicide and natural treatments, which are incredibly effective from barley straw, extract of barley straw to probiotic treatments, which add bacteria to the pond, then multiply and reduce blanket weed.

The traditional algaecides are still available, however these are more suited to ponds and features, which have few or no plants.

Ask at your local centre for the best solution for your water garden.

## Cloverleaf

Simply the Best

### Blanket Answer

A unique blend of minerals and enzymes which help control blanket weed. 100% safe for all pond fish, plants, and filtration systems.



## NISHIKOI

"HEALTHY POND, HEALTHY FISH"

### ClearWaters

The award winning ClearWaters contains a combination of algaecide and Microbes for a double prone attack on nuisance blanketweed all year round.

ClearWaters quickly destroys blanket-weed in garden ponds and can be used down to a temperature of 4 degrees centigrade. It is also effective in controlling Duck-Weed.

The active ingredients is harmless to fish, pond wildlife and beneficial water plants



1kg, 2.5Kg, 5kg, 10kg

## Blagdon

### CLEAN POND PODS

- Algae such as blanket weed
- Encourages healthy plant growth
- Makes tap water top-ups safe
- Eats pond sludge - further reducing filter cleaning
- Suitable for use in all ponds: planted, wildlife, Koi and other fish ponds.



## NISHIKOI

"HEALTHY POND, HEALTHY FISH"

## Goodbye BLANKET WEED

A unique, bio-product consisting of bacteria cultured on barley straw, enzymes and activated barley straw.

### EASY TO USE:

- NO mess
- NO measuring
- NO algicides
- NO over dosing
- NO BLANKETWEED



Simply drop one water-soluble sachet of Nishikoi® Goodbye Blanket Weed into the pond or filter every week. One water-soluble sachet treats ponds up to 1,000 gallons. Available in 6,000 gallon or 320,000 gallon value packs.

## MECHANICAL REMOVAL

If you have a major blanket weed problem it is best to remove as much as possible by hand before starting any treatment. If the worst of the blanket weed is not removed it will breakdown and pollute the water causing serious water quality problems, which could effect your pond inhabitants.

There are a number of devices to help with blanket weed removal such as the:

## The Hozelock Blanket Weed Brush

The Blanket Weed Brush has an adjustable telescopic handle and can be adjusted from 60cm up to 180cm to reach even the most hard to reach places in your pond.



## LITTER GRABBER

Ideal for removing litter and unwanted debris from pond surface



90 cm long

## Blagdon

### DUCK WEED BUSTER

Duckweed Buster uses natural ingredients to remove this potentially dangerous and invasive floating plant that cuts out light to all submerged aquatic life. Harmless to all other pond plants.



# EVOLUTION AQUA

INNOVATION IN WATER

**AWARD WINNING  
BACTERIAL POND  
PRODUCTS**

## PURE+ FILTER START Gel

Easy to use gel  
to kick start  
your pond filter

Live, concentrated bacteria culture to start new pond filters. Gel will stick to the filter media, coating it with beneficial bacteria helping to speed up maturation of your filter. The result - stress free fish!



## EVOLUTION AQUA

### PUREPOND

The original, award winning bacterial product that helps to maintain crystal clear, healthy water in ponds. Easy to use thanks to the unique "gel ball" delivery method, just add directly to the pond filter.

Maintenance  
product



## EVOLUTION AQUA PUREPONDBOMB

For a fast acting boost of clarity in your pond, use the PURE Pond Bomb. A more concentrated version of PURE POND, the single gel like ball contains live bacteria and enzymes ready to convert ammonia and nitrite quickly, and boost the water clarity when you need it most! PURE POND BOMB

Fast acting  
results



Visit  
[www.evolutionaqua.com](http://www.evolutionaqua.com)  
for more information

# Pond Food And Care That Puts Fish First.

We celebrate

1951-2021  
**70**  
YEARS



### AquaSafe

Immediately makes tap water safe for pond fish.

- Rapidly and effectively neutralises harmful substances in tap water (heavy metals such as copper, zinc and lead) and aggressive chlorine
- Also adds essential substances such as minerals and iodine to the water



### AlgoRem

Effectively combat's floating algae.

- Floating algae are bound into biologically degradable clumps that can easily be removed by the filter or with a net
- Works in a matter of hours



### FilterStart

Supports and reintroduces live filter bacteria to your pond after winter or maintenance (to be used when the water temperatures rise above 10°C).

- Includes highly active filter bacteria to combat ammonia and nitrite
- Efficient cleaning bacteria to fight against sediment and decay in the filter



### MediFin

Effective treatment for most common pond fish diseases.

- Combination of active ingredients effective against bacteria, parasites, and fungi
- Supports wound healing by preventing secondary infections
- Harmless to fish, plants and filter bacteria



### AlgoFin\*

Effective treatment for blanketweed. Safely preventing further algae growth.

- Intensive treatment for most frequently occurring algae types (blanketweed, floating algae and slime algae)
- Prevents further algae growth in the long term

\* Use biocides safely. Always read the label and product information before use.

### Tetra Pond Test 6in1

Determines the pond water quality in 60 seconds.

- Tests 6 important water values in just one step; general and carbonate hardness (GH+KH), nitrite (NO<sub>2</sub>), nitrate (NO<sub>3</sub>), pH value and now with chlorine (CL<sub>2</sub>)
- In case of critical water values, targeted action can be implemented



## Year in the life of a Tetra Pond

### Tetra has a product for all seasons and a solution for every need

Ponds change dramatically throughout the year and it gives us endless enjoyment to watch and curate these changes. To celebrate our 70th Birthday we will be following the life of a pond for the full year in the UK to help you understand how different seasons affect its life.

**Take a look at our gallery to see our "Year in the life of a Tetra pond".**



OCTOBER



MARCH

SCAN ME!



For more information visit [www.tetra-pond.co.uk](http://www.tetra-pond.co.uk) or visit our Facebook at Tetra UK





As the seasons change, it's reassuring to know that you have the support of Tetra, a trusted brand that understands what your pond water, plants and fish need to remain vibrant and healthy all year round. Tetra has paved the way for aquatics and fishkeeping since being founded in 1951. Tetra's pond range includes premium pond food, water test kits and reliable pond treatments. **So, whatever your pond needs, Tetra has the answer.**



### Tetra Pond Sticks

Complete staple food for all pond fish.

- Softens quickly, yet remains stable in the water, allowing fish to feed easily
- New improved formula with less phosphate, for better water quality & reduced algae growth
- Contains all essential nutrients and vitamins in an easily digestible format
- Suitable for all pond fish
- For feeding at all times of the year when the water temperature is above 10°C
- Tetra extrusion process ensures high digestibility and excellent nutrient stability



### Tetra Pond Koi

High quality staple food in floating stick form, especially developed for the healthy, balanced diet of Koi.

- Softens quickly for easy eating
- Natural colour enhancers (high quality carotenoids) bring out the red, yellow and orange colour pigments to the full brilliance
- Good acceptance and digestibility of the sticks ensure low water contamination and improved water quality



### Tetra Pond Variety Sticks

Mix of three different varieties of food stick, to provide a complete yet varied diet for all pond fish.

- Pond Sticks to promote health, vitality and colour
- Koi sticks for improved colouration
- Wheatgerm sticks for improved food utilisation and digestion
- Feed all year once the water temperature reaches 10°C and excellent nutrient stability

Visit [www.tetra-pond.co.uk](http://www.tetra-pond.co.uk) for seasonal care for your perfect pond.

### Tetra Pond Holiday

Patented formula containing tasty daphnia, essential vitamins, trace elements and minerals which provides healthy nutrition for up to 14 days without polluting the pond water.



### Tetra Goldfish Mix

Premium food mixture specifically formulated for goldfish, consisting of flakes, sticks and gammarus.



### Tetra Pond Flakes

Complete flake food for all pond fish, especially good for smaller fish.



### Tetra Pond Pellets

Complete daily diet for all pond fish.



We are proud to be the winners of "Brand of the Year" for Fish Food



### Tetra Pond Sterlet Sticks

Complete food formulated for the unique dietary requirements of sterlets and other sturgeon species. Can be fed all year round.



### Tetra Pond Colour Sticks

Complete food with additional colour enhancers, for rapidly developing natural colouration. Ideal for feeding after the winter, or to new fish.



### Tetra Pond Wheatgerm Sticks

Highly digestible food sticks for feeding fish (including koi) during the winter, once temperatures fall below 10°C.

For more information visit [www.tetra-pond.co.uk](http://www.tetra-pond.co.uk) or visit our Facebook at Tetra UK



### GROWTH

A high performance, colour-enhancing diet that is packed with the optimum level of highly digestible protein, to stimulate excellent growth while maintaining a well proportioned bodyshape when fed at normal summer temperatures.



### STAPLE

A complete, practical and economical food for all pond fish. It contains all of the essential vitamins and minerals required for healthy growth.



### NISHIKOI FLAKE

A multi-usage flake specially formulated for all coldwater fish in ponds and aquaria. A highly digestible, low waste diet. Ideal for smaller pond fish, supplementing other diets.



### WHEATGERM

A highly digestible, vegetable-based, low protein diet ideal for feeding at low temperatures in spring and autumn.



### MULTISTICKS

Multi-Sticks are a complimentary mix of floating sticks for all pond fish. A highly digestible food with a blend of ingredients to satisfy a wide range of pond fish.



### SINKING

A sinking food for Sterlets, Tench and catfish which offers the same high performance of the Nishikoi Growth



### HEALTH

Nishikoi Health is a health promoting pellet food that enables your fish to recover from the stresses they may encounter from being moved, extreme temperature changes, water changes, poor conditions and a host of other conditions. Ingredients include prebiotic's, beta-glucans and garlic



### BABY GROWERS

Three formula options in a very small pellet size making it idea for baby fish.

# NISHIKOI®

“HEALTHY POND, HEALTHY FISH”

[www.nishikoi.com](http://www.nishikoi.com)



More UK pond keepers feed their fish on **NISHIKOI®** than any other pond food. They know **NISHIKOI®** provides the exceptional nutrition their fish need to keep them healthy, colourful and growing to their full potential



www.pondaquariumproblemsolver.co.uk

## POND TREATMENTS



- Easy to select
- Easy to use
- Guaranteed quality

The Blagdon award winning range of pond treatments is the result of decades of experience developing and manufacturing pond products. Advanced active ingredients Blagdon UK based scientists research and develop products utilising the latest active ingredients for solving pond and fish health problems.



TREATMENT	250ML		500ML		1000ML		USES
	LTS	GALS	LTS	GALS	LTS	GALS	
Fresh Start	2250	500	4500	1000	9000	2000	Tap water conditioner, Removes chlorine, Adds Aloe Vera
Anti Fungus & Bacteria	2250	500	4500	1000	9000	2000	Acts against fungus, Mouthrot, Finrot
Anti Parasite	2250	500	4500	1000	9000	2000	Acts against whitespot, flukes, and slime disease organisms
Anti Ulcer	2250	500	4500	1000	9000	2000	Acts against ulcers, bacterial gill disease and dropsy
Anti Parasite extra strength	2250	500			9000	2000	Strong Parasite Treatment
Anti fungus & bacteria extra strength	2250	500			9000	2000	Strong Fungus and bacteria treatment
Stress away	2250	500			9000	2000	Prevents fish disease, use once a month.
Pond Ammonia Remover	2250	500	4500	1000	9000	2000	Instantly removes ammonia
All in one treatment	2250	500			9000	2000	Broad spectrum treatment for goldfish
Green Away	5000	1100	10000	2200	20000	4400	Clears green suspended algae
Barley Straw Bugs	4500	1000	9000	2000	18000	4400	Controls Blanketweed
Clear Pond	5675	1250	11375	2500	22750	5000	Clears dirty, cloudy water and aids filtration
Flora Boost	2250	500			9000	2000	Essential, nitrate free pond plant food
	<b>STANDARD</b>		<b>SUPERVALUE</b>		<b>MEDIUM</b>		
Pond Balance	6825	1500	13600	3000	41000	9000	Deals with blanket weed problems without harming fish & plants
	<b>SMALL</b>		<b>LARGE</b>				
Algaway	10740	2360	45845	10085			Answer to blanket weed, encourages plant growth, wildlife etc
	<b>2.27KG</b>		<b>9.08KG</b>				
Pond Guardian	2250	500	9000	2000			Special formulated physiological salt with built in pH buffer
	<b>SACHET</b>		<b>CARTON</b>				
Sludge Buster	2250	500	9000	2000			Creates a healthy clean pond by actively consuming sludge
Bio Start	2250	500	9000	2000			Dried biological culture to rapidly mature pond filterfilters

ALWAYS READ AND FOLLOW THE MANUFACTURERS INSTRUCTIONS



Test for Ammonia, Nitrite, Nitrate & pH with the

## BLAGDON COMPLETE POND DIP TEST KIT

Pond fish are highly dependent on the water in which they live.

Therefore any changes in the water conditions will have a direct affect on the health and well-being of the fish.

It is impossible to see the changes in these water conditions with the naked eye so you have to monitor them with a test kit.

- Your water conditions are stable and suitable for the fish you keep. - pH (Acid or Alkaline) and Water Hardness (Hard or Soft)
- Your filter is effectively processing harmful waste excreted by fish and produced by decomposing food and plant matter - Ammonia and Nitrite fish waste levels should be zero
- High level of Nitrate is causing algae problems - Nitrate is a key food for algae growth



Visit The Blagdon Pond Problem Solver web site: [pondaquariumproblemsolver.co.uk](http://pondaquariumproblemsolver.co.uk)



## CLEAN POND PODS

5in1 / Clears Blanket Weed / Reduces Filter Cleaning / Eats Pond Sludge / Makes Tap Water Safe / Feeds Aquatic Plants

Each soluble pod pouch harmlessly dissolves, releasing the gentle active ingredients, getting straight to work to clean and clear your pond.

- Reduces pond/filter cleaning and maintenance
- Pet and wildlife safe
- Beneficial to filter bacteria
- Encourages plant growth and flowering
- Perfectly paired with Clean Pond Machine Filter
- Can be used in other filters and directly into the pond
- Suitable for use in all ponds: planted ponds, wildlife ponds, Koi and other fish ponds



# Oase

## POND VACUUMS

Interest Free Finance Available  
**0% APR\***  
 Representative

On Purchases Over £250  
 Subject to status, terms & conditions apply.  
 \*See page 3 for full details

### OASE PONDOVAC CLASSIC

- 1.4Kw motor generating up to 3000 l/h suction
- Automatic emptying function
- Compact design with 27lt tank
- Maximum suction depth of 2m
- Includes: 4 nozzles, 1 filter bag, 1 coarse debris collection sack, 4m suction hose & 2m discharge hose



Pondovac Classic

### OASE PONDOVAC 3

- Non stop vacuuming with the two chamber system.
- Maximum suction depth of 2.1m with a 1600W motor.
- Multi Use: garden ponds, pools and a wet vacuum in the home.\*
- Easy to move with transport rollers.
- Suction capacity up to 4,000 l/h.
- Includes: String algae nozzle, wet suction nozzle, universal nozzle, debris collection bag, 4 m long suction hose and 2.5m long discharge hose.



Pondovac 3

### OASE PONDOVAC 4

- Powerful 1.7 kW motor and optimised turbine enables greater suction power to a max depth of 2.4m (nearly 8ft).
- Large diameter casters and generous handle ensure that the Pondovac can be easily moved around the garden.
- Includes 4 aluminium tubes, a special string algae nozzle, a wide area nozzle with a rubber lip, a new brush nozzle and a versatile floor nozzle with adjustable aperture, as well as a fine mesh debris collection bag for the water return.
- Accessory 'tidy' facility that means all the tools can be organised and stored easily.
- Also excellent for cleaning swimming pools and wet vacuuming floors.\*



Pondovac 4

### OASE PONDOVAC 5

- Powerful 1.7 kw motor greater suction power to a max depth of 2.5m (over 8ft).
- Vacuum without interruption thanks to a 900watt integrated discharge pump enabling waste water to be pumped away.
- Hand regulator for adjusting suction power (Max 8000lph depending on conditions).
- Large special rubberised wheels(155mm) and generous handle ensure that the Pondovac can be easily moved around the garden.
- Includes 4 robust aluminium tubes, string algae nozzle, broadened universal, wet suction brush & nozzle, debris collection bag, 5m suction and 10m discharge hose.
- Accessory 'tidy' for organised and easy accessory storage.
- Excellent for garden ponds, cleaning swimming pools and wet vacuuming floors.\*



Pondovac 5



\*Not for use with chemicals

PONDOVAC PUMP MODEL	MAX DEPTH CMS	SUCTION CAPACITY LTRS/HR	CONTINUOUS OPERATION	HOSE LENGTH METRES	SUCTION DISCHARGE	WATTS
PONDOVAC CLASSIC	200	3000	No	4	2	1400
PONDOVAC 3	210	4000	Yes	4	2.5	1600
PONDOVAC 4	240	5000	Yes	5	2.5	1700
PONDOVAC 5	250	8000	Yes	5	10	1700
PONDOMATIC	200	3000	No	4	2	1400

no need to stop to empty



### PONDOMATIC SLUDGE VACUUM

- Specially designed vacuum cleaner for ponds and natural pools
- Powerful 1400 watt motor
- Automatic activation and emptying through intelligent integrated time control
- Compact design
- 30 litre collection tank
- With 3 suction nozzles: crevice nozzle, algae nozzle, variable universal nozzle (2-10 mm)
- Includes: 4 m suction hose and 2 m discharge hose
- 2 Year Guarantee



### POWERSAFE SWITCH BOXES EXTRA SAFE

**EASY TO USE**

- Each Switch box has at a glance unique power on and power standby indicator lights
- Individually fused outlets
- Weatherproof for outdoor use
- Clear power application identity labels for each switch included
- Simple to install
- Large housing with simple to remove circuit board for easier wiring
- Integrated wall or post mounting bracket and fittings
- Available in a 2, 3, 4 and 5 switch models



### OUTDOOR PLUG & SOCKET CONNECTOR

### K+Media

- 1025 m<sup>2</sup> per m<sup>3</sup> Protected Surface Area
- Minerals, magnesium, calcium, salt & enzymes incorporated into each piece
- Filters mature faster with K+Media
- Improved solids handling performance and flow rate
- Floating version in white - Sinking version in black



The Automatic Fish Feeder can be programmed to dispense measured amounts of food

### AUTOMATIC FISH FEEDER

- Great for holiday feeding
- Free-standing tubular steel gantry with ground spike included
- Simple to operate. with a battery-operated clock and a frequency dial
- Up to six feeds per day
- Holds up to 800ml of any kind of fish food



### evofeed

### AUTOMATIC FISH FEEDER

- Weatherproof, programmable automatic fish feeder suitable for medium and large ponds.
- Rechargeable battery last up to 3 months.
- Ideal for Koi ponds and holiday feeding.



### velda

### POND PROTECTOR KIT

Discrete and simple protection for pond fish from herons and cats. Place the stakes around the pond and connect the cable to the electrical unit. This then emits a low harmless electrical pulse. When herons and cats touch it they will be deterred.



### BLAGON CLEARVIEW COVERNETS

- Sizes:
- 3 x 2m
  - 4 x 3m
  - 6 x 4m
  - 6 x 3m
  - 6 x 5m
  - 10 x 6m

A simple, disguised net covering the surface of the pond will protect the fish from predators and excess leaves which cause water quality problems. The net will also cut down on filter and pump maintenance



### HERON DECOY

It is thought that this life size decoy placed in a prominent position will deter other herons, as herons being solitary feeders tend not to feed together.

### DUCK AND DUCKLINGS





### AIR PUMPS

- 2 Year Guarantee
- Outdoor/Indoor Use
- Supplied with hose, air stones, non-return valves etc
- Low energy



PUMP MODEL	OUTPUT (L/HR)	OUTLETS	POWER (WATTS)
320	320	2	4
640	640	4	6
1500	1500	6	20
2700	2700	12	35
4500	4500	12	45



### POND OXYGENATOR

- Outdoor weatherproof water garden air pump
- Specifically designed for water garden application
- Creates powerful aeration and circulation
- Able to run multiple air stones at a time
- Dramatically increases the level of oxygen in the water
- Prevents pond stagnating
- Can be used for aquariums - great in a 'fish house'



PUMP MODEL	WITH FISH LITRES	GALLONS	WITH KOI LITRES	GALLONS	NUMBER OF OUTLETS	POWER WATTS	MAX L/HR
1800	10000	2200	5000	1100	6	16	1800
2400	15000	3300	7500	1650	10	20	2400
3600	22000	4839	11000	2420	20	32	3600



### AQUAOXY

- Fully weatherproof, so no need for a dry housing
- Supplied with two air stones, allowing targeted oxygenation to two places at once
- 12V power means increased safety
- Integrated check valves giving high reliability



PUMP MODEL	OUTPUT (L/MIN)	MAX DEPTH	MAX PRESSURE	OUTLETS	MAX POND LITRES	WATTS
AQUAOXY 250	250 L/H	1M	0.15 BAR	1	3000	4
AQUAOXY 500	500 L/H	1.4M	0.2 BAR	2	5000	8
AQUAOXY 1000	1000 L/H	1.6M	0.2 BAR	2	10000	15
AQUAOXY 2500	2500 L/H	3.5M	0.35 BAR	1	25000	40
AQUAOXY 5000	5000 L/H	3.5M	0.35 BAR	1	50000	75
AQUAOXY 7500	7500 L/H	3.5M	0.35 BAR	1	75000	125



### PondoAir AIR PUMP SET

- 3 Models pumping up to 900 litres per hour
- Includes 2x 5 m air hose and 2 air stones
- Protection class IP44
- Includes 2 replacement diaphragms
- 2 year guarantee



PUMP MODEL	OUTPUT (L/HR)	OUTLETS	POWER (WATTS)
200	200/h	2	4
450	450/h	2	6
900	900/h	4	12



### Pondostar LED



#### Pondostar LED RING

- Warm white LEDs for illuminating fountains



#### Pondostar 3

- 3 x 1.5 watt LED lights
- 12v safety transformer and 7m cable

#### Pondostar LED Rocklight Set 3

- The lights can be used under water
- Warm white LEDs
- Transformer & 9m cable



#### Pondostar LED RGBW SET 3

- 3 x Coloured LED Pond lights
- Remote control
- 12v safety transformer



#### Pondostar 6

- 6 x 0.5 watt LED Lights
- 12v safety transformer and 3m cable, plus 1.2m between lights
- Twilight sensor
- IP68 rated

# Oase

## LUNAQUA 3

LUNAQUA 3 offers multiple possibilities for viewing the garden and the garden pond in any light.

- Powerful underwater LED spotlight for pleasant warm white light accents
- Bright illumination, thanks to a powerful 220 lumen rating with a colour temperature of 2700K
- The beam angle can be adjusted as desired for optimal lighting effect. (from 10°-40°)
- Lunaqua 3, each with 5 m cable
- Comes complete with ground stakes, wall/floor brackets and spotlight feet
- Nozzle brackets
- Colour insert sets (red, orange, green and blue)
- Weatherproof safety transformer



Available in 1 or 3 light sets.  
Solo light is also available without transformer or cable to extend existing systems

# Blagdon

## POND AND GARDEN ULTRA BRIGHT LED LIGHT SET

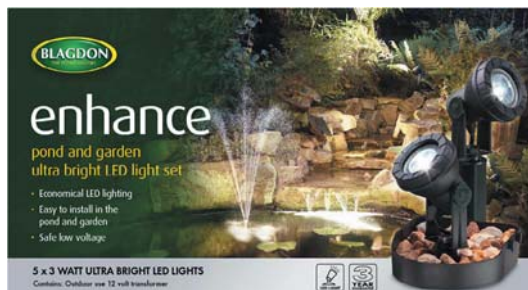
A revolutionary low-voltage light range for creating beautiful lighting effects in either the pond or garden.

Complete with weatherproof transformer, the LED light sets offer unrivalled flexibility of installation. Quick and easy to install. Three versatile installation options with every light.

- Ultra bright 3 watt LED lights
- Low running cost & long lasting
- Safe & easy to install
- 3 x lenses (cyan, magenta & green)
- For pond and garden use
- 3 year guarantee

### Tech Details

- 230 Volt, 50Hz, 15 watts
- Low voltage 12 volt
- Outdoor use IP68 transformer
- 3w LED lamp x 5
- 3m mains cable
- 18m low voltage cable in total
- CE Approved



**3 KITS AVAILABLE**  
1 x 0.76 watt light  
2 x 3 watt lights  
5 x 3 watt lights

## PONDOSOLAR LED SET 3

- 3 x warm white 0.5 watt LED spots
- With Li-ion battery 3.7 V - 1800 mA H
- Twilight sensor
- Includes 5m cable plus 2 x 1.5 m between lights



### PondoSolar Lily LED Set 3

- Floating plastic water lilies with 3 LEDs
- Solar cell with a Ni-MH battery 1.2 V - 600 mA H
- Twilight sensor
- 0.75 m of cable between the lights

### PondoFall LED

- Easy-to-install outlet for streams and waterfalls with LED lighting
- Illuminated outlet lip featuring 24 warm white LEDs
- Includes a stepped hose connector (19/25 mm)
- Made of durable, weatherproof and UV-resistant plastic
- Suitable for water flow rates from 2000 l/h to 6000 l/h (litres per hour)
- Includes a 12 V safety transformer and 2 m + 8 m cables



# affinity<sup>®</sup>

living feature pools

- Enjoy the sight and sound of moving water and aquatic life, day and night all year round
- Easy to set up, in under 2 hours
- Easy to maintain
- Safe low voltage
- Complete life support system for fish and plants

If the thought of sitting in the hot summer sun against a backdrop of flowing water, the buzz of dragon flies and watching fish peacefully swim through dappled water appeals, achieving this dream has suddenly become a great deal easier with The Affinity Living Feature Pool, without the effort or problems usually associated with traditional ponds.

This unique concept introduces take away, plug and play fish pool and water feature for gardens and outdoor living areas everywhere that can be built in under two hours ready to transform a home or property.

The Affinity Living Feature Pool looks simple, but it is the culmination of years of development, bringing together the very best in traditional water features coupled with the latest in new technology to embrace a low maintenance full life support system in one stunning product.



**VIEW CORNER**  
H:46cm x W:60cm x L:60cm

**VIEW OCTAGON**  
H:46cm x W:75.5cm x L:75.5cm

**VIEW HALF MOON**  
H:60cm x W:75.5cm x L:63cm



**MOCHA CORNER**  
H:60cm x W:90cm x L:90cm

**HALF MOON MOCHA**  
H:61cm x W:73cm x L:103cm 336ltrs

**MOCHA OCTOGON**  
H:60cm x W:101cm 400ltrs



**GRAND OCTAGON**  
H:52cm x W:158cm x L:145cm 708 ltrs

**GRAND HALF MOON**  
H:52cm x W:147cm x L:104cm

**GRAND CORNER POOL**  
H:52cm x W:120cm x L:120cm



## HEISSNER<sup>®</sup>



**SAPHIRA**  
L:31 x L:31 x H:65cm  
Inc: 45ltrs Sump & LED Lights



**BALL ON VASE MOCCA**  
L:31 x L:31 x H:65cm



**ROCKY WATERFALL**  
L:41 x L:34 x H:60cm



**WOODEN THREE BARREL FEATURE**  
L:45 x L:45 x H:59cm



**WOODEN TWO BARREL FEATURE**  
H:60 x W:60 x D:76cm





EASYFOUNTAIN

by **KELKAY**

Resin Stone

LED Lights Built in

EASY Install

Big Range online & in store



**SIMPLICITY**

Code 44004  
H965mm  
W700mm  
D700mm



**SPARKLING BOWLS**

Code 4714L  
H850mm W410mm D440mm



**RED ROCK SPRINGS**

Code 45230L  
H710mm W620mm D350mm



**COASTAL PILLARS**

Code 45248  
H500mm W260mm D200mm



**AZURE COLUMNS**

Code 4657L  
H550mm  
W255mm  
D250mm



**FLOWERING JUGS**

Code 45134L  
H1050mm  
W430mm  
D400mm



**PATINA BOWLS**

Code 44000  
H900mm W700mm D700mm



**DAPPLED COLUMN**

Code 44015  
H625mm W410mm D410mm



**COMO SPRINGS**

Code 4664L  
H540mm  
W490mm  
D490mm



**FENCE POST POURS**

Code 45153L  
H535mm  
W320mm  
D270mm



**PLAYFUL OTTER**

Code 45103L  
H564mm  
W355mm  
D292mm

# Tropical & Marine Aquariums

Many World of Water centres have large Tropical and Marine aquarium departments.

Please refer to the back cover for availability at each centre.

Download your copy of the World of Water "A Practical Guide To Your Aquarium" from [www.worldofwater.co.uk](http://www.worldofwater.co.uk) and click on brochures



## GETTING STARTED

The aquatic hobby has grown steadily as everyone is looking to bring the beauty of nature into their homes. Vast choices exist and provide aquarists with many options. A beautifully presented display aquarium affords a glimpse into the fascinating underwater world, providing a captivating centrepiece for any home, office or professional environment. This brief guide provides helpful guidelines and information that will contribute to an easy, enjoyable experience.

Aquariums have many positive attributes that extend well beyond being decorative. Research has indicated a link between watching an aquarium and the reduction of stress. Fish keeping can also provide experiences and events that stimulate the learning process. The dynamic underwater world will present changing situations where fish, and plants, grow, mature and reproduce, providing a living demonstration of various life processes.

It is recommended to read various books and seek advice when deciding on and setting up an aquarium.



## AQUARIUM SET UP BASICS

### WEIGHT

A filled, complete aquarium set-up will weigh approximately 1 Kg per litre. The use of a proper aquarium cabinet or stand is advisable. With very large aquariums you may need to consider floor strength, however this is usually not a concern with most standard aquariums available. Placing aquariums on a bookshelf, dresser, or other household furniture is generally not recommended.

### SIZE

The size of aquarium is often limited by the space available. In general, select the largest size of aquarium that space, location and budget will allow. This will provide many benefits, such as a more stable environment, greater choice of fish and plants and an enhanced aesthetic value.

### LOCATION

Place the aquarium away from sources which will influence temperature (radiators, fireplaces, windows), create vibration (high traffic areas) and allow light entry (windows, skylights). A convenient power point is important for heater, lighting and filtration components. Under no circumstances should any household electrical appliances be placed under or in close proximity to your aquarium.

### PREPARATION

Gently wipe down the new aquarium using wet filter wool or a clean cloth and rinse with luke warm water to clean before filling. Never use a commercial glass cleaner, detergent or chemical cleanser to clean inner or outer aquarium glass. Never use a bucket that has been exposed to soap, detergent or any chemical cleansers to transport water for your aquarium. A mild aquarium cleaner can be used to clean inner (empty aquarium) or outer glass surface

## NEW - PURE AQUARIUM- BACTERIAL PRODUCTS FOR AQUARIUMS



**WASTE REMOVER**  
Removes sludge and reduces maintenance frequency



**PURE AQUARIUM**  
Maintains crystal clear, healthy water

### ALSO AVAILABLE

**PURE AQUARIUM BOMB**  
Rapidly addresses biological issues in freshwater aquariums

**FOR MARINE AQUARIUMS**  
**PUREREEFbalance**  
Live beneficial bacteria for saltwater aquariums

**EVOLUTION AQUA**  
INNOVATION IN WATER

**NEW PURE+ AQUARIUM**  
**FILTER START GEL**  
Fast acting live bacteria gel to start new aquarium filters, for fast introduction of fish. Simply pour the gel onto your filter media.

## FILTRATION

Efficient filtration is a key component for a clean, healthy, thriving aquarium. Typical stocking densities (in relation to water volume) of fish and plants far exceed levels one would ever find in nature. The biological waste products emitted by aquarium inhabitants must be effectively removed and metabolised before they become toxic. Aquarium filters are available in various configurations and should provide mechanical, biological and chemical filtration, as well as oxygenation.

### FILTRATION TYPES

#### Internal/Built-in

Probably the most convenient filtration system, as it is all housed in the aquarium easing maintenance problems associated with external and under gravel filters. A number of aquariums are now sold with suitably sized filters fitted.



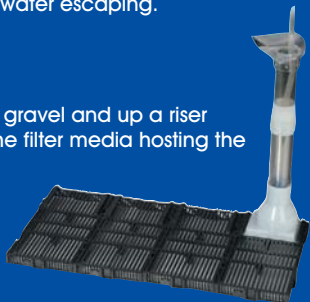
#### External

External filters are popular with the serious fish keeper as they can offer increased filtration capacity. However care should be taken with hose connections and maintenance to avoid water escaping.

#### Under gravel

Water is drawn down through the gravel and up a riser pipe. The gravel bed becomes the filter media hosting the nitrifying bacteria.

Under gravel filters can be operated with either a power-head or an air pump.



## HEATING

Fish are "cold-blooded" and maintain the same body temperature as their environment. It is extremely important to maintain constant temperatures. Sudden changes can cause stress and lead to disease.



## LIGHTING

Factors that influence the type and quantity of light required are:

- Size of aquarium
- Fish species and other aquatic inhabitants
- Plant life
- Aesthetics

The latest LED strip lighting and traditional Fluorescent lighting are an efficient, effective choice for many aquariums.

They evenly illuminate the full length of the aquarium and efficiently convert energy consumed into light.



## WATER

Water is the most important and basic element in keeping a healthy, successful aquarium. You should regularly test your aquarium water for Ammonia, Nitrite, Nitrate, pH and if required water hardness.

When first setting up an aquarium and whenever partial water changes are conducted, always treat the water with a general "safe water" treatment to make it safe for fish.



## CHOOSING YOUR FISH

Definitely the best bit about setting up a new tank - but there are hundreds to choose from, so where do you start?

### Before You Buy:

As tempting as fish are, you must research their individual requirements before you buy. Check the eventual size and water requirements of each species, whether they will suit your tank and mix with the other species on your list.

At most World of Water stores you will find that we use a "Traffic Light System" to aid your selection of tropical fish.

This simple system helps to identify which types of fish will mix and there basic requirements, like preferred water parameters, maximum size and feeding habits.

## INTRODUCING FISH

Patience is necessary when first stocking an aquarium. It is very tempting to fully stock a beautifully set up aquarium, but it is not advisable. Purchasing a small group of fish every two weeks will serve to gradually load the system and allow essential bacteria the time required to multiply and establish, biologically converting toxic nitrogenous compounds produced by fish. In a new fresh water aquarium, a gradual build up of fish to achieve 2 cm of fish per 4.5 Lts is recommended. Remember, fish grow.

Transport new fish as soon as possible after purchase to avoid stress and temperature change. The following steps are recommended to provide a stress-free introduction.

Turn off the aquarium lights during the acclimation period. Float the bag in the aquarium for approximately 20 minutes to equalise water temperatures.

Open the bag and gently pour in some aquarium water (approximately 1/3 the bag volume), wait 10 minutes. Repeat this water introduction twice at the same interval.

Carefully net the fish out of the bag and place them in the aquarium. Dispose of the water in the bag, do not release this water into the aquarium.

If the newly introduced specimens are the only fish in the aquarium, wait 24 hours before initial feeding.

## FISH CARE

Observation and daily verification of aquarium inhabitants is an important preventative measure. A quick daily check will reveal any problems before they become serious. specimens that are hiding and/or exhibiting torn or damaged body parts could indicate fighting and territorial disputes. Early recognition and diagnosis of any abnormalities or problems will allow timely treatment and much better chances of success.

# Plants

Most fresh water aquariums can be set up with live plants and whenever possible, it is recommended to do so. Some of the benefits of live plants are that they:

- **Supplement filtration** - they absorb ammonium, nitrates, and phosphates, and even assimilate other undesirable substances from aquarium water
- **Produce oxygen and absorb carbon dioxide** when the aquarium is illuminated
- **Provide natural shelter for fish**, thereby reducing stress and supporting natural behaviour. Plants also provide hiding places for baby fish and for species that are being harassed by other inhabitants
- **Provide the main decoration feature of aquariums** and supply a dynamic element to the aquarium as they grow

## HEALTHY AQUATIC PLANTS

### The 4 Golden Rules

Follow these simple rules to keep your aquarium plants healthy and vigorous.

- **Substrate:** Use a plant substrate (gravel/soil) for the plants to root in.
- **Lighting:** At least 10 hours of bright lighting every day.
- **Fertilizer:** Use a good quality (liquid) plant fertilizer weekly. It keeps plants leaves healthy which will aid photosynthesis.
- **CO<sub>2</sub> :** Plants need a source of CO<sub>2</sub> as fish on their own do not produce enough. Either use a CO<sub>2</sub> system or liquid CO<sub>2</sub>.

Having healthy plants improves your water quality by using up excess nitrates, a by-product of fish waste, excess food etc breaking down.

Healthier water equals happy fish and happier fish keepers! Please feel free to ask a member of staff for more help and advice

## MAINTENANCE

Aquarium maintenance is an essential regular activity that provides a stable, healthy environment for fish and plants. The key to an effective program is to fulfill basic, simple tasks which, when performed on a regular basis, take very little time and result in a clean, thriving aquarium display. Ongoing biological processes can deplete water of essential ingredients and cause nitrate accumulation and other non-desirable substances. Most expert aquarists will agree that regular partial water changes represent a key element in fish health and condition. Always ensure that the replacement water has been treated and is the same temperature as the aquarium.

The following list serves as a general guide to maintaining a stable aquatic environment. Variations in percentage and frequency can exist due to stocking density and types of livestock kept.

OASE have brought German engineering to the aquarium with a cleverly designed range of internal and external filters, heaters and accessories.

# Oase

### INTERNAL FILTERS

#### BioCompact

For small aquariums

- Effective filtration in the smallest space
- Can also be installed horizontally
- Available in two models for 25 & 50lt aquariums



#### BioPlus

For medium sized aquariums between 50 - 200lt

- Internal corner filters with an integrated spray bar
- Inconspicuous and easy to clean
- Available with or without adjustable heater - Retrofit heater available
- Available in three sizes for 50, 100 & 200lt



### EXTERNAL FILTERS

#### FiltoSmart

A handy external filter for small to medium sized aquariums (60 to 300lt) with medium fish stock

- High filter volume
- External filters leave more space in the tank
- Available with or without adjustable heater (Ex 60)
- Available in four models for 60, 100, 200 & 300lt aquariums



#### BioMaster

Ideal for larger aquariums between 250 & 850lt with higher fish stock

- "Easy-Clean" Prefilter module, significantly reducing complete filter maintenance.
- Discreet, highly efficient external filter technology.
- Available with or without adjustable aquarium heater
- Available in four models for 250, 350, 600 & 850lt aquariums



### MAINTENANCE TIPS

- **Never change more than 40% of aquarium water at a time.**
- **Never empty the entire aquarium to clean it. This causes undue stress on fish and will disturb the biological balance of your aquarium.**
- **Only change half of your filter media at a time, to retain the established biological balance.**
- **NEVER use soap or any detergent on your aquarium or any products used in or around your aquarium.**
- **When cleaning the inside glass of your aquarium, avoid picking up pieces of gravel, as this will scratch the glass.**
- **Limit the amount of times you put your hands in the water. Oils and films may cause stress in fish. It is preferable to use the Multi-Tool.**

### DAILY

- **Observe all aquarium inhabitants. Perform a quick visual check to ensure that there is no disease, injury, and/or abnormal behaviour.**
- **Verify temperature and confirm that all supporting equipment is functioning correctly (filters, heaters, lighting, etc.).**
- **Remove any dead fish, plants, or obvious debris (such as plant leaves attached to intake strainer of filter).**

### WEEKLY

- **Perform a partial water change, 5 to 10 percent is recommended. Use a gravel washer to extract trapped waste from the gravel. Partial water changes on a regular basis will provide stable water quality and maintain ideal conditions.**
- **Clean fluorescent tube(s) and fixture. This will maintain consistent light levels.**
- **Clean inner and outer glass surfaces. This will eliminate any algae accumulation and ensure full viewing pleasure.**
- **Test water. This is important particularly for reef and planted aquariums.**

### MONTHLY

- **Perform filter maintenance (preventative maintenance of moving parts, such as the impeller). Replace filter media as per manufacturer's recommendations and in accordance with test kit results.**
- **Check supplies, food, water conditioners and all other regularly used items.**

# HIGHLINE AQUARIUMS

Pure design / No compromise

Modern contemporary aquarium, designed with uncomplicated features for ease of living. The aquariums fit perfectly in every modern living landscape with the ability to hide cables and hoses.

- Optiwhite glass provides a clear view of the underwater world from various angles
- Add an OASE filter requiring only minimal maintenance.
- Optional modern LED lighting ensures a healthy and beautifully lit aquarium.
- Cabinet Choice: 3 stunning colours with optional shelves, hooks & drawers

## NEW HighLine Room Divider 300

An innovative solution for visually dividing interiors, the spacious cabinet can be opened from both sides while an inconspicuous dry shaft is located on one narrow side for clean and orderly cable and hose routing

# Oase



Glossy anthracite



Model	W cm	H cm	D cm	Litres	cabinet	optional illumination kit
125	50	50	50	125	L50 X W50 X H157 CM	125 Classic LED
175	70	50	50	175	L70 X W50 X H157 CM	175 Classic LED
200	90	49	50	202	L90 X W50 X H125 CM	200 Classic LED
300*	115	56	50	302	L115 X W50 X H132 CM	300 Classic LED
400	140	63	50	413	L139 X W50 X H139 CM	400 Classic LED
600	160	60	65	580	L160 X W50 X H139 CM	Classic LED Sets

\* Also available as HighLine Room Divider 300

Natural oak



Glossy white



## STYLELINE Aquarium Sets

Complete kits with aquarium, cabinet, filter unit and LED lighting kit. Available in Black or White in three size options.

Clear, timeless design and powerful technology: everything for a functioning ecosystem with minimal maintenance effort.

Ideal for beginners in the fascinating world of indoor aquatics.



StyleLine 85



StyleLine 125

## SCAPERLINE Designed For Aquascapes

In aquascaping, the frame is almost as important as the actual underwater artwork. The ScaperLine aquaria are designed to fulfil these special requirements and are packed with exciting details: distortion-free Optiwhite glass, bevelled edges, high-quality materials in an elegant minimalist design, tidy cable routing and practical storage options for your aquascaping tools. The aquarium and cabinet are a perfect match. Choose between three sizes and two different finishes in grey or black - the perfect setting for your scape.



Model	W cm	H cm	D cm	Litres	cabinet	lights	BioPlus Thermo
85	50	42	36	75	L50 X W36 X H145 CM	LED DAYLIGHT	100
125	70	50	36	115	L70 X W36 X H122 CM	LED DAYLIGHT	200
175	80	55	40	160	L80 X W40 X H132 CM	LED DAYLIGHT	200

# biOrb®

BY OASE

biOrb combines classic good looks with high tech filtration.

Kits include:

- LED Multi Colour Remote Control lights
- Ceramic media & filter cartridge
- Low voltage air pump & air stone
- Water conditioner & beneficial bacteria liquid



**BEST SELLER**



**Designer Stands Available**

Model	w cm	H cm	Litres	colour options
Baby biOrb	30	32	15	Black/Silver/White
biOrb 30	40	42	30	Black/Silver/White
biOrb 60	50	52	60	Black/Silver/White
biOrb 105	61	63	105	Black/Silver



## Multi Colour Remote Control Lighting With Selected biOrb aquariums



At the touch of a button, your aquarium can be lit by any of the sixteen pre-set colours. Alternatively you can relax as the aquarium gently fades through the entire spectrum of colours. Plus you have the option to control brightness



# biOrb® LIFE

BY OASE

biOrb LIFE looks like no other aquarium. Its high gloss curves are available in four sizes and three colours: - Black - White - Clear



# biOrb® CUBE

BY OASE



biOrb LIFE & biOrb CUBE Kits include:

- LED Multi Colour Remote Control lights
- Ceramic media & filter cartridge
- Low voltage air pump
- Water conditioner & beneficial bacteria liquid

Colour Options: Black, White or Clear



\*Remote unit supplied will vary across the range

Model	W cm	H cm	D cm	Litres
biOrb LIFE Portrait 15	29	40	19	15
biOrb LIFE Square 30	40	41	23	30
biOrb LIFE Portrait 45	38	58	26	45
biOrb LIFE Portrait 60	42	63	28	60
biOrb CUBE 30	32	32	32	30
biOrb CUBE 60	40	40	40	60

# biOrb® HALO

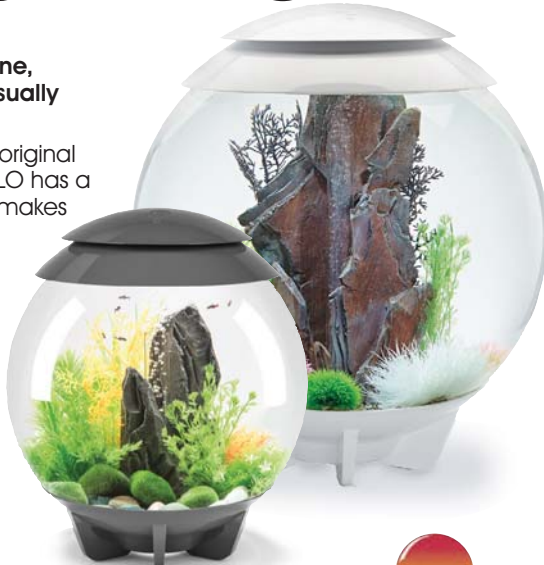
BY OASE

**With its hidden waterline, the biOrb HALO is a visually seamless aquarium**

A modern take on the original CLASSIC. The biOrb HALO has a hidden water line that makes your underwater view appear suspended in space.

The simplicity of the curved design creates an appearance of lightness and neatly houses the lights, filter and airline.

Available in Grey or White



Model	W cm	H cm	Litres
biOrb 15 LED Halo	30	35	15
biOrb 30 LED Halo	40	46	30
biOrb 60 LED Halo	50	56	60

# biOrb® LOOP

BY OASE

The biOrb LOOP gives you a deceptively spacious looking aquarium on a small footprint. Its unique oval shape makes it ideal for a small space where you wouldn't normally be able to enjoy an aquarium.

Its uninterrupted viewing experience can frame a spectacular aquascape.

Available in Black or White



Model	W cm	H cm	dcm	Litres
biOrb 15 LOOP	42	28.6	15	15

# biOrb® FLOW

BY OASE

**Everything you need to start your aquarium is included in the box**

Kit includes:

- LED Multi Colour Remote Control lights
- Ceramic media & filter cartridge
- Low voltage air pump & air stone
- Water conditioner & beneficial bacteria liquid
- Available in Black or White



Model	W cm	H cm	D cm	Litres
biOrb FLOW 15	20.8	31.5	30	15
biOrb FLOW 30	26	39	37.5	30

# biOrb® TUBE

BY OASE

**Elegant contour and 360 view with multicolour MCR lighting 360 degree all-round view**

Set comes with acrylic aquarium, MCR light unit, low voltage pump, air stone, filter cartridge & ceramic bed. Easy to install in just a few steps.

Available in Black or White



Model	W cm	H cm	Litres
biOrb Tube 15	32.8	31.5	15
biOrb Tube 30	32.8	51.6	30
biOrb Tube 35	41	36.9	35



# AQUA CUBE LED

- Integrated & bright LED lighting
- Easy care filter, keeps aquarium clean & healthy
- Ideal as a Coldwater or Tropical aquarium by adding a heater
- 28 Litres (6 Gallons)
- H34 x D30.8 x W33.5 CM



# AQUA CURVE LED

- Interactive viewing with curvy design
- Ultra bright LED lights for day & night mode lighting
- Easy care filter, keeps aquarium clean & healthy
- Ideal as a Coldwater or Tropical aquarium by adding a heater
- 62 Litres (13.6 Gallons)
- H69.5 x D36 x W34.5 CM



# Aquaverse Vision LED

A fresh perspective on fishkeeping

- 5 Stage Filter
- Ultra-Slim Design
- Complete with LED Lighting
- Suitable for Coldwater or Tropical Fish



**KIT COMES COMPLETE WITH**

**5 STAGE FILTER**  
Complete with cartridges

- Easy to use
- Silent
- Unique Algalway pads

**POWERFUL LEDS**  
Day & night mode

- Powerfully bright
- Reliable water-proof
- Saves money

**WATERCARE Tapsafe**

- Protects Fish
- Activates your filter
- Dechlorinates your water

Model	W cm	H cm	D cm	Litres	cabinet size
AQUAVERSE 70L	60	45	31	70	W60CM X D31CM X H60CM
AQUAVERSE 100L	76	50	31	100	W76CM X D31CM X H70CM
AQUAVERSE 120L	76	61	31	120	W76CM X D31CM X H70CM



# OakStyle

The OakStyle range is the perfect combination of the currently popular robust oak look with a modern lightness to it.

- Classic oak furniture design with shaker style doors & traditional handles
- Distinctive features such as shelves, drawers and wine racks
- Euro style bracing system to tank with easy access glass lids.
- Complete with heater, filter (internal/external model dependent)
- Powerful LED lighting, featuring white & RGB LEDs, with separate blue LED function.

Glass condensation covers and an oak effect hood surround



Model	W cm	W cm	D cm	Litres	cabinet size	lighting	heater	filter
OakStyle 85	45	55	38	85	L52 x W41 x H78cm	10.8w LED	100w	Moray 320
OakStyle 110	63	55	38	110	L70 x W41 x H78cm	14w LED	150w	Moray 700
OakStyle 145	81	55	38	145	L88 x W41 x H78cm	20w LED	200w	Ocellaris 700
OakStyle 230	116	60	38	230	L123 x W41 x H78cm	30w LED	300w	Ocellaris 850
OakStyle 300	150	60	38	300	L157 x W41 x H78cm	43w LED	300w	Ocellaris 1400

**Aqua One®**

# OakStyle

Urban Collection

## OakStyle Urban Collection

- Rustic wood effect finish
- Contemporary black slim line metal handles
- Euro style bracing system to tank with easy access glass lids
- Complete with heater, filter (internal/external model dependent)
- Powerful LED lighting, featuring white & RGB LEDs, with separate blue LED function

**Aqua One®**



OakStyle Urban 230

OakStyle Urban 110



Model	W cm	W cm	D cm	Litres	lighting	heater	filter
OakStyle 110	70	136	41	110	14W LED	150w	Moray 700
OakStyle 230	123	146	41	230	30W LED	300w	Ocellar's 850

# FLUVAL

## Roma Aquarium Kits

The Fluval Roma is a rectangular aquarium designed on clean, simple lines to bring sophistication to modern home decor. With a choice of four sizes, each with coordinating furniture, the Fluval Roma Collection has something for everyone

- Integrated low wattage LED light
- Compatible with additional Fluval LED lighting
- Includes Fluval Filter, Heater & LCD Thermometer
- Aquarium with optional matching cabinet
- Colour Options: oak, walnut & black
- Starter Guide



**NEW!**  
LED LIGHTING  
6500 K

**Interest Free Finance Available**  
**0% APR\***  
**Representative**  
On Purchases Over £250  
Subject to status, terms & conditions apply.  
\*See page 3 for full details

Model	W cm	H cm	D cm	Litres	Cabinet size - (optional)
Roma 90	60	50	35	90	L60 X W35 X H71.5 cm
Roma 125	80	50	35	125	L80 X W35 X H71.5 cm
Roma 200	100	55	40	200	L100 X W40 X H71.5 cm
Roma 240	120	55	40	240	L120 X W40 X H71.5 cm

# FLUVAL

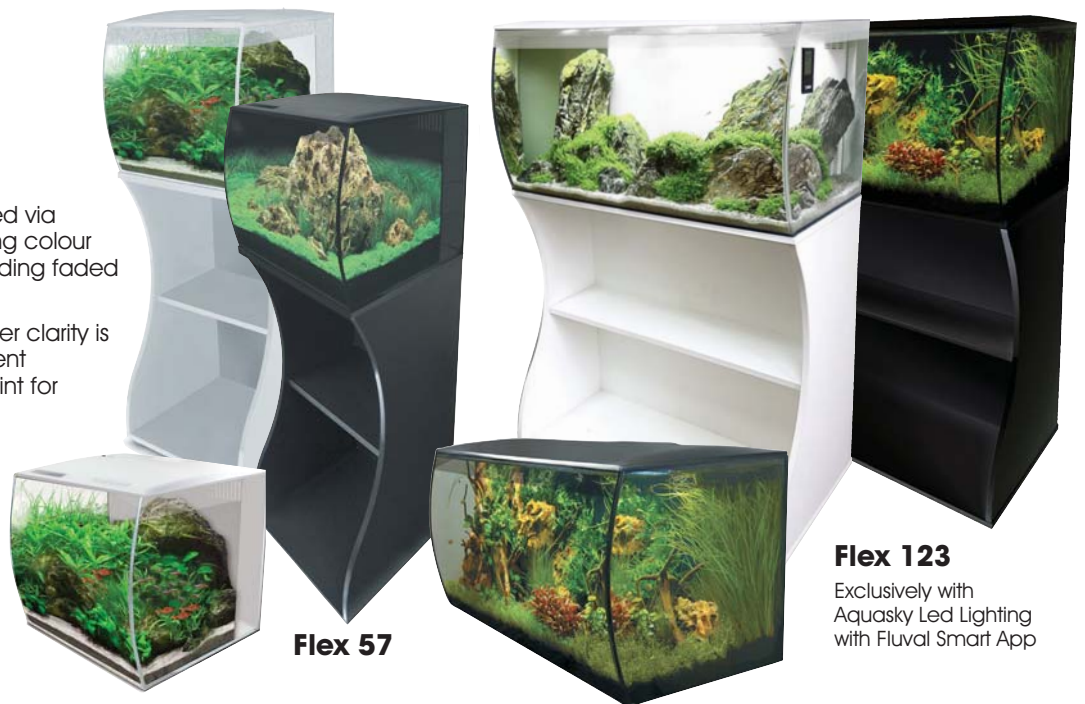
## The Flex nano aquarium series with its distinctive curved front.

Brilliant illumination effects controlled via remote control. Choose your lighting colour and some fun special effects including faded cloud cover and lightning bolts!

Multi-stage filtration for optimal water clarity is neatly hidden in a rear compartment camouflaged by a honeycomb print for optimal water clarity.

Easy feeding Opening.

Upgrade to tropical with a heater.



**Flex 57**

**Flex 123**

Exclusively with Aquasky Led Lighting with Fluval Smart App

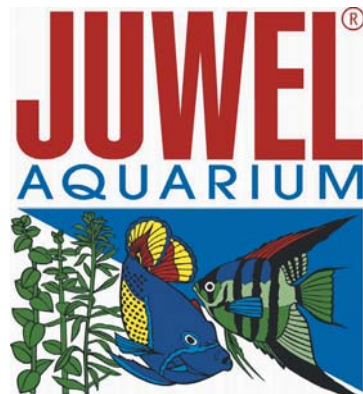
Model	W cm	H cm	D cm	Litres	Optional Cabinet Size	Lights
Flex 34L	34	33	33	34		7500K LED, Remote Flexpad
Flex 57L	41	39	39	57	L41.5 x W36.5 x H75 cm	7500K LED, Remote Flexpad
Flex 123	82	39	40	123	L88 x W44 x H75.5 cm	App Control: Aquasky LED Lighting

# MARINA<sup>®</sup>

## KIDS KITS

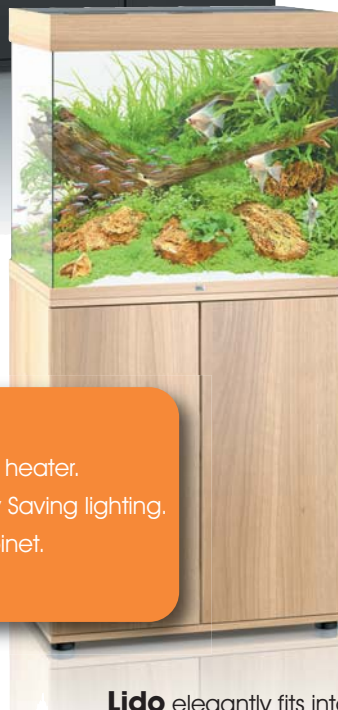
Kids aquarium kits include a 17L glass aquarium with feet and canopy with easy feeding openings, an internal filter, graphic background and set up guide making these kits truly simple for your child to independently care for their aquatic universe.





**Rio**

Timeless design, perfected technology and meticulous workmanship. A Rio aquarium from JUWEL discreetly accentuates the underwater world that you have arranged.



**Lido** elegantly fits into any surrounding due to its discreet design. You will be surprised by its elegance and compatibility

**All kits include:**

- Bioflow filter system and heater.
- Built in Juwel LED Energy Saving lighting.
- Optional matching cabinet.
- 2 YEAR warranty.



**Trigon 190** aquariums turn every corner of the room into a decorative eye-catcher.



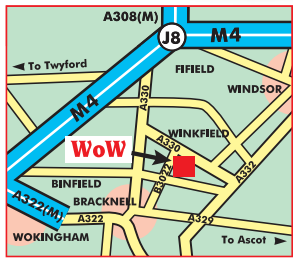
**Vision 450**

Experience the aquarium fascination from a new perspective. A Vision accentuates the optical depth through its curved front panel and offers surprising views of your underwater world.

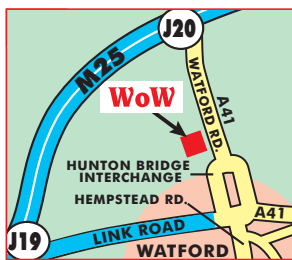
MODEL	LENGTH	HEIGHT	WIDTH	VOLUME	CABINET (OPTIONAL)
Rio 125	81	50	36	125	81 x 36 x 73 cm
Rio 180	101	50	41	180	101 x 41 x 73 cm
Rio 240	121	55	41	240	121 x 41 x 73 cm
Rio 350	121	66	51	350	121 x 51 x 80 cm
Rio 450	151	66	51	450	151 x 51 x 80 cm
Vision 180	92	55	41	180	92 x 41 x 73 cm
Vision 260	121	64	46	260	121 x 46 x 73 cm
Vision 450	151	64	61	450	151 x 61 x 81 cm
Trigon 190	95	60	70	190	98,5 x 70 x 73 cm
Trigon 350	123	65	87	350	123 x 87 x 73 cm
Lido 120	61	58	41	120	48 x 41 x 73 cm
Lido 200	71	65	51	200	71 x 51 x 80 cm



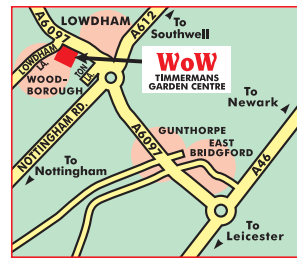
# VISIT ONE OF OUR NATIONAL STORES OR TELEPHONE OUR MAIL ORDER



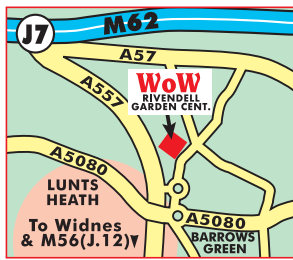
**BERKSHIRE**  
**W T M F**  
 Oaktree Nursery & Garden Centre, Brock Hill, Bracknell Road, Warfield, Bracknell, Berks RG42 6LH  
 Tel: **01344 894 770**



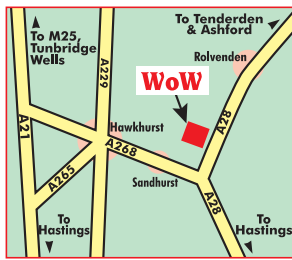
**HERTFORDSHIRE**  
**W T M R P F**  
 Watford Road, Hunton Bridge, Nr. Watford, Hertfordshire WD4 8QG  
 Tel: **01923 270707**



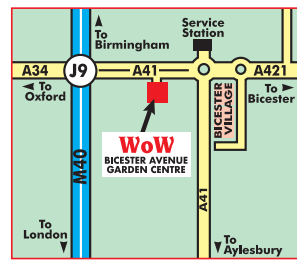
**NOTTINGHAMSHIRE**  
**W T M**  
 Woodborough Green Garden Centre, Lowdam Lane, Woodborough, Nr. Nottingham, Notts NG14 6DN  
 Tel: **0115 966 3333**



**CHESHIRE**  
**W T**  
 Rivendell Garden Centre, Mill Lane, Widnes, Cheshire WA8 3UL  
 Tel: **0151 257 7701**



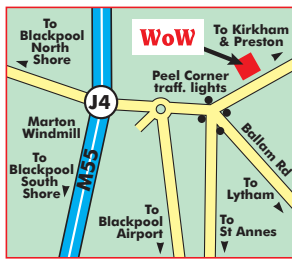
**KENT**  
**W T**  
 Hastings Road (A28) Rolvenden, Cranbrook, Kent TN17 4PL  
 Tel: **01580 241771**



**OXFORDSHIRE**  
**W T**  
 Bicester Avenue Garden Centre, Oxford Road, Bicester, Oxfordshire OX25 2NY  
 Tel: **01869 322489**



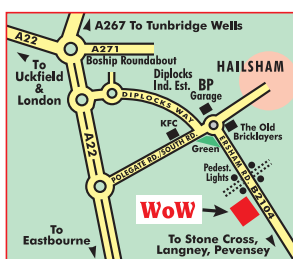
**CHESHIRE**  
**W T**  
 Wilmslow Garden Centre, Manchester Road, Wilmslow Cheshire SK9 2JN  
 Tel: **01625 800761**



**LANCASHIRE**  
**W T R P F C**  
 Preston New Road, Westby, Nr Kirkham, Lancs PR4 3PH  
 Tel: **01772 684129**



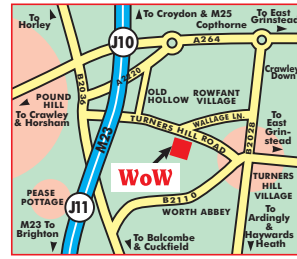
**SURREY**  
**W T**  
 Haslemere Garden Centre, Haslemere Road, Brook, Haslemere, Nr Godalming, Surrey GU8 5LB  
 Tel: **01428 682913**



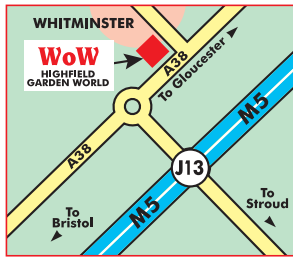
**EAST SUSSEX**  
**W T**  
 Ersham Road (B2104) Hailsham, E. Sussex BN27 2RH  
 Tel: **01323 442400**



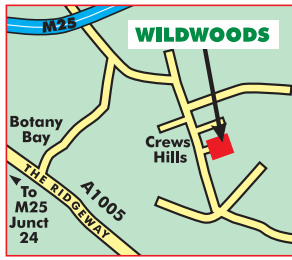
**LEICESTERSHIRE**  
**W T M**  
 Palmers Garden Centre, Lutterworth Rd, Ullesthorpe, Leics LE17 5DR  
 Tel: **01788 818890**



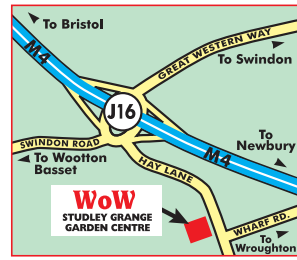
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**W T**  
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