The Complete

Water Gardening & Aquarium Guide

Edition 22

World of Water AQUATIC CENTRES

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For terms see www.worldofwater.com

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Many items are also available from mail order.

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THE EXPERTISE

We don't just sell! Unlike most Garden Centres, World of Water specialise in Water Gardening. Many of our stores have display gardens and we have won RHS Medals for our gardens at all of the major flower shows.

You will find our staff experienced, helpful and able to advise you on the best solutions for your water garden.

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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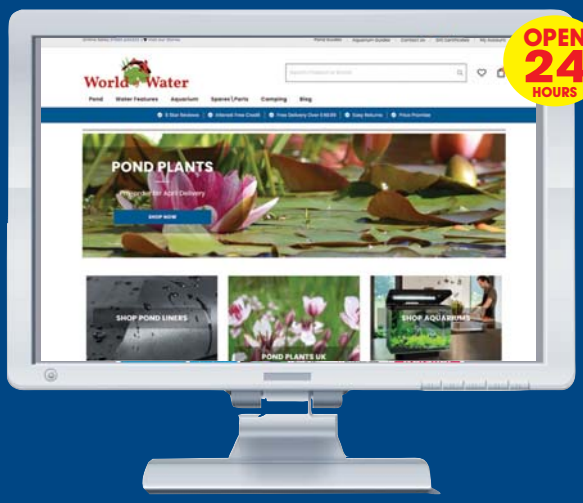

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MUCH MORE THAN FISH

See back cover for more details

Pet Supplies

Reptiles

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!

POND BASICS IDEAS & TIPS PLANNING PLANTING P 4-29

PRE-FORMED PONDS POND LINERS WATERFALLS P 30-37

FILTRATION UV CLARIFIERS COMBINED FILTERS P 38-49

POND PUMPS HOW TO SELECT YOUR PUMP P 50-59

FISH FOOD TREATMENTS FISH & POND HEALTH P 60-67

MAINTENANCE ACCESSORIES POND LIGHTING P 68-71

ACCESSORIES WATER FEATURES SELF CONTAINED FOUNTAINS P 72-73

AQUARIUMS AND BASIC CARE P 74-83

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World of Water AQUATIC CENTRES

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Basics

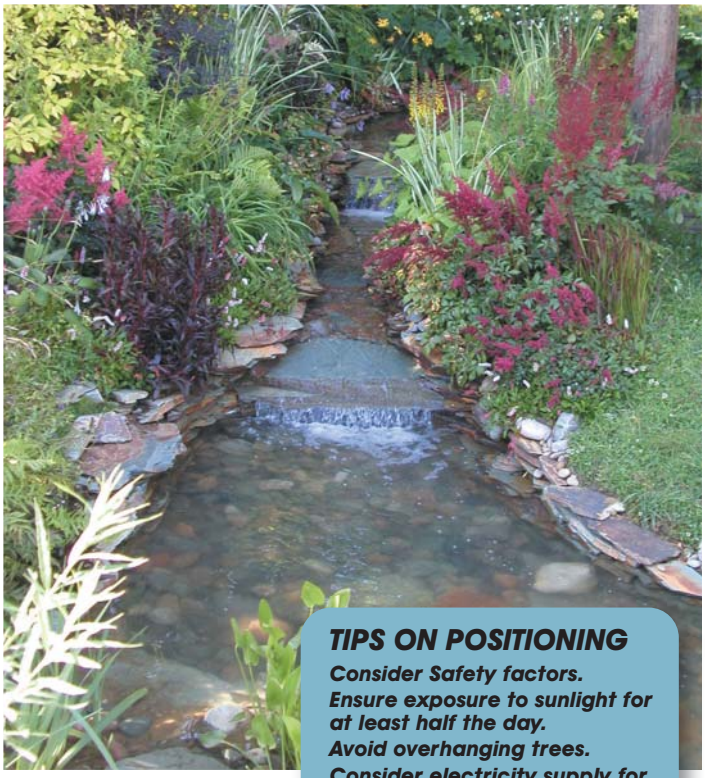
HERE TO MAKE WATER GARDENING A REALITY

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.

TIPS ON SHAPES

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

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.

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.

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 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

SEE PAGE 30

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.

Oase LIVING WATER

2. PRE-FORMED POOLS

SEE PAGE 31-33

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.

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.

World of Water AQUATIC CENTRES

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Natural Ponds

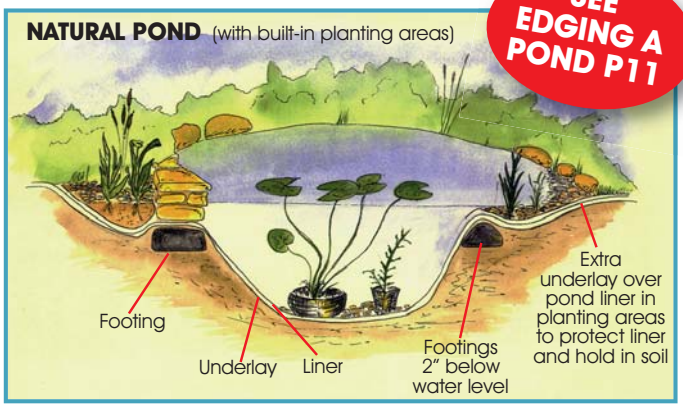
A HAVEN WITHIN YOUR GARDEN

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.



SEE EDGING A POND P11

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 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)

Plant images ©Rod d'Ayala

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.

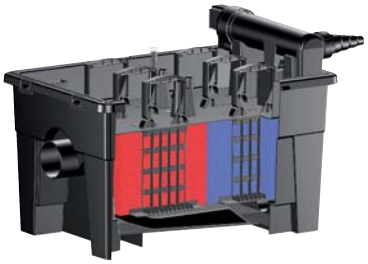
Fish Ponds

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 when planning a fishpond the most important concern is the installation and positioning of the filter system.



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 topages 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, water is pumped into the filter and then is returned to the pond under the force of 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.

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.

Pressurised filters have become very popular recently. They will cope with small to medium sized garden ponds. Water is pumped through the filter under pressure allowing the water to exit the filter wherever it is required. This allows flexibility in positioning and overcomes the problem of gravity return filters having to be higher than the water surface. A number of these filters also come with easy cleaning systems 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.

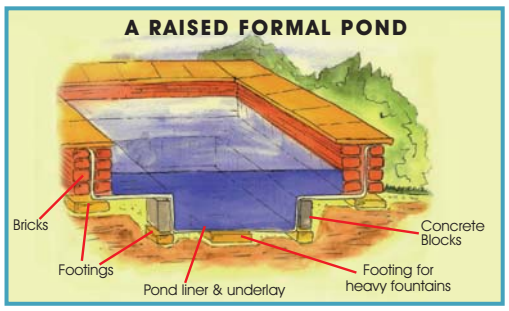
Seek advice on the correct equipment from our staff.

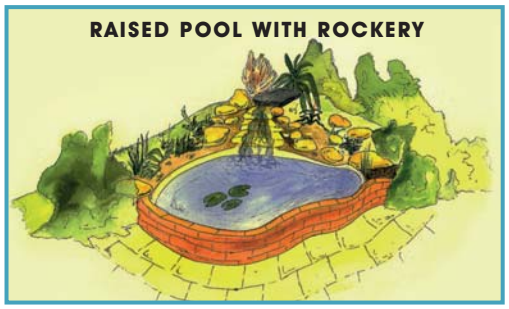
Ensure hose and cable routes have been taken into consideration.

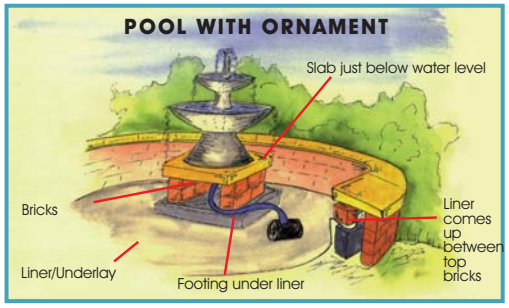
For larger ponds and ponds specifically for koi we stock a wide range of the latest state of the art specialist pump or gravity feed filters. Different systems have different advantages. Some use vortex chambers to settle out solid waste, some use screenex to filter solids which can then be flushed to waste, and some even have indicator lights to show when the filter needs cleaning!

Pump fed koi filters, usually multi-chambered units combining many media types from filter brushes to Japanese matting. The pump is positioned in the pond and the water is delivered into the filter and returns to the pool under gravity.

Gravity fed filters, water is drawn into the the filter by gravity but is pumped out by a pump positioned in the last chamber of the filter.
The pipe work involved with these filters is more complex. Please ask for advice from one of our experts for further information.







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.

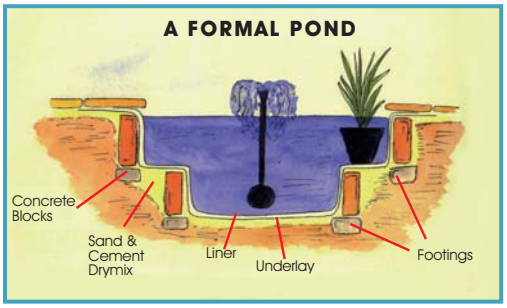
Filtration will need consideration.

Ensure ducting for cables is laid before paving surrounding areas.

FORMAL PONDS

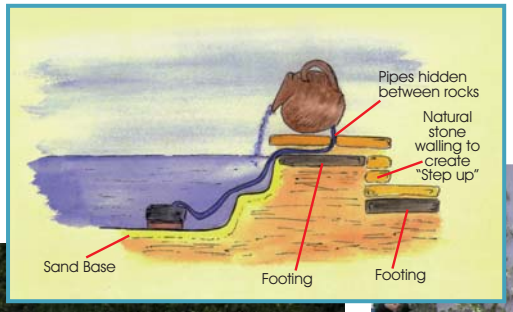
Formal ponds either raised or at ground level, are ideal on patios or lawned areas. Careful consideration should be taken in the design stages when choosing your edging method. When edging with slabs, it is advisable to position the slabs before excavation to create your pool template. This will also 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!

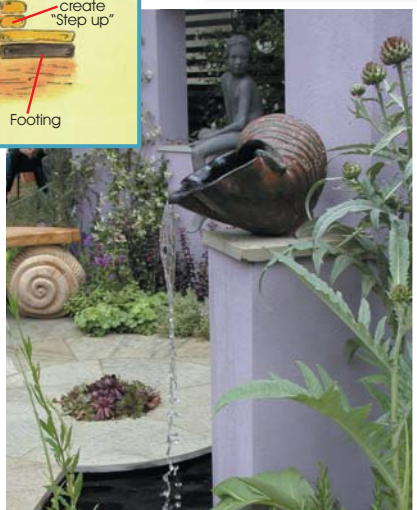
Should you desire a heavy stone fountain in the pool, which looks effective in many formal situations, it may be necessary to form a concrete footing in the base of the excavation to support the weight of the fountain and its base before installing the liner.



JUG FEATURE

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



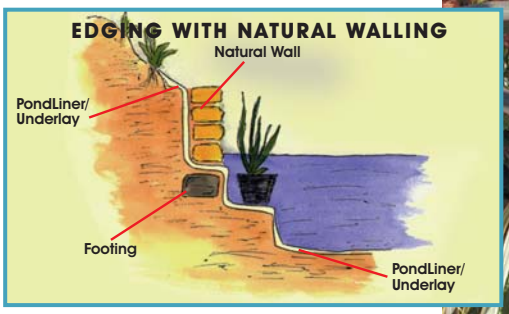


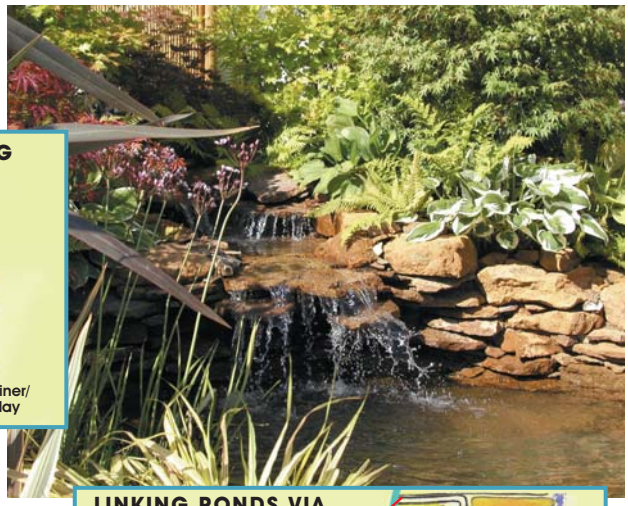
INFORMAL PONDS

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.

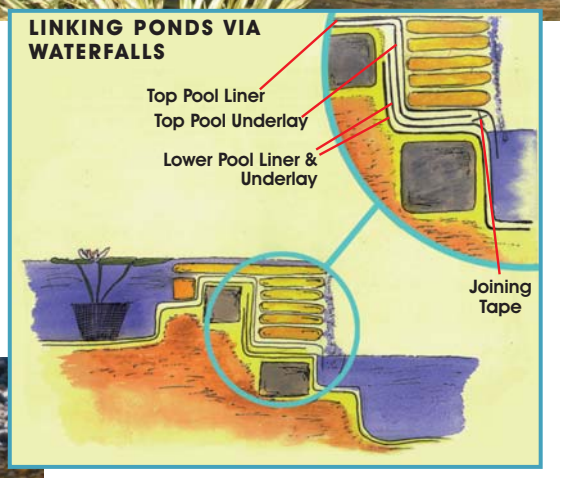


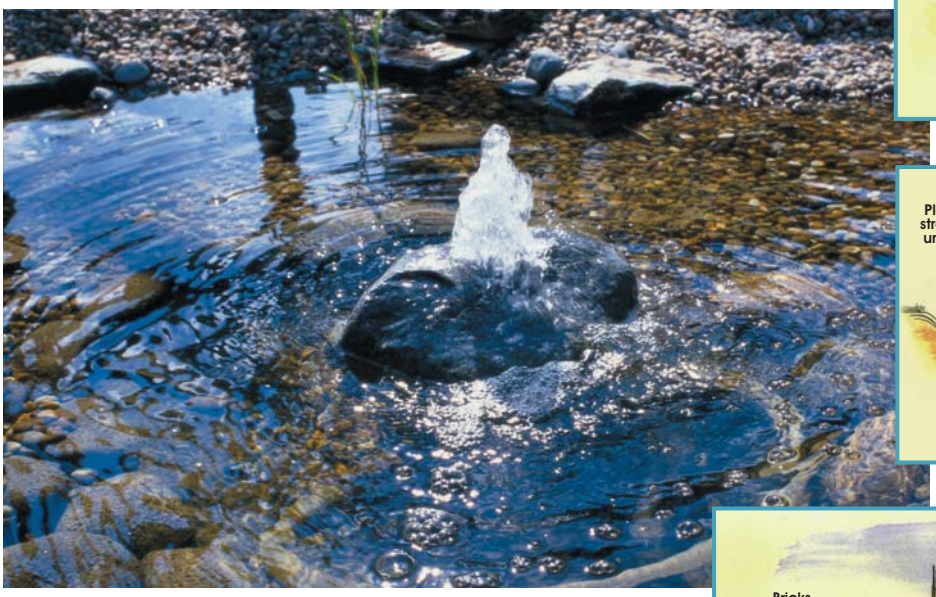


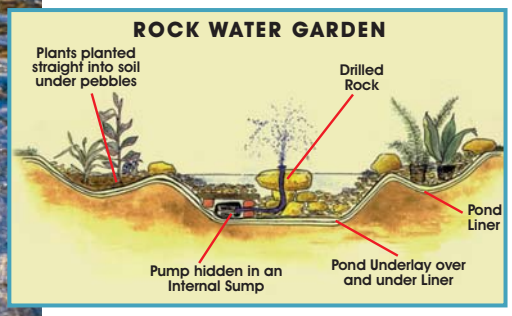
PEBBLES AND ROCK POOLS

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.

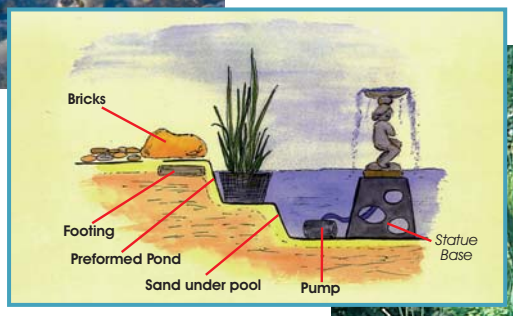






ADDING A FEATURE FOUNTAIN

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)

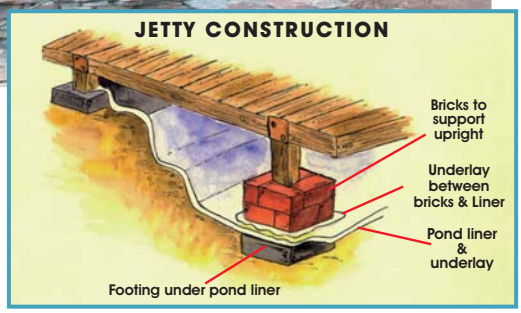


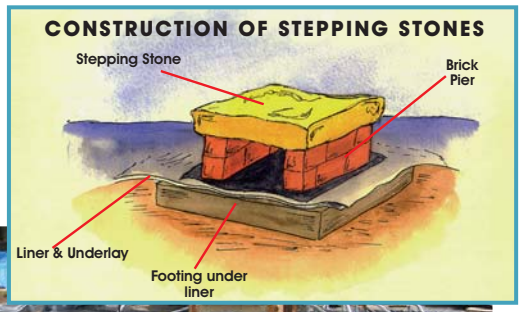
Walking on water!

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

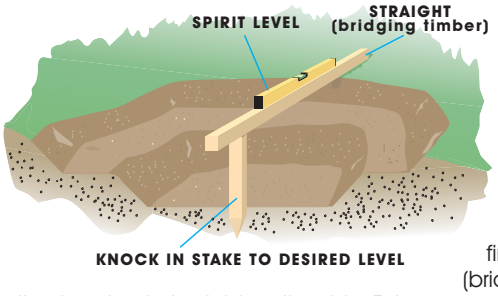
After excavation, cover the base of the hole with about 5cm of sand and level out, position the pond on the sand and place a spirit level across the top lips of the pond, reposition and add sand as necessary to achieve a level pond. Gradually fill the pond while back filling the sides. Do check manufacturer's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

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.

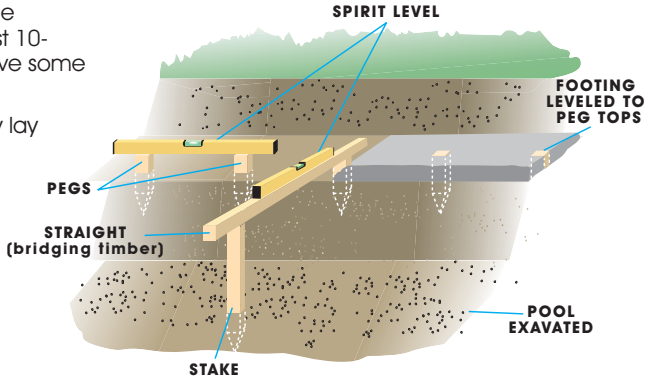
Should you wish to build a more complex edging, you will need to lay footings. These must be laid level and at least 10-15cm deep.

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



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.

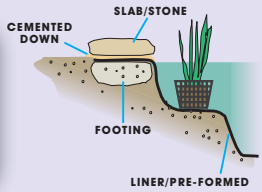
Always do a complete water change a few days after any cement work on a new pond before introducing any plant or fish life.

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.

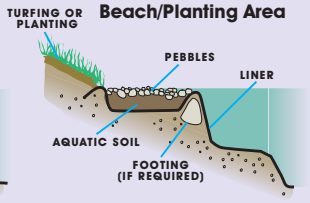
PLEASE NOTE:

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

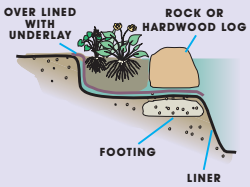
Basic Edging



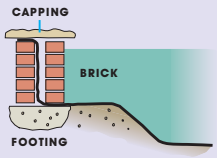
Beach/Planting Area



Informal Planting Area



Formal Raised



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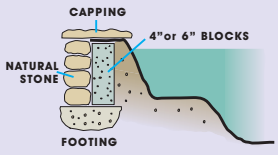

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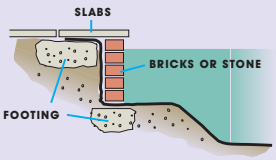
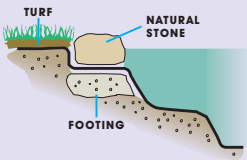
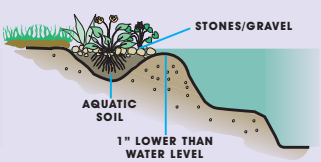


Informal



Wildlife



Suggested Layout of Equipment

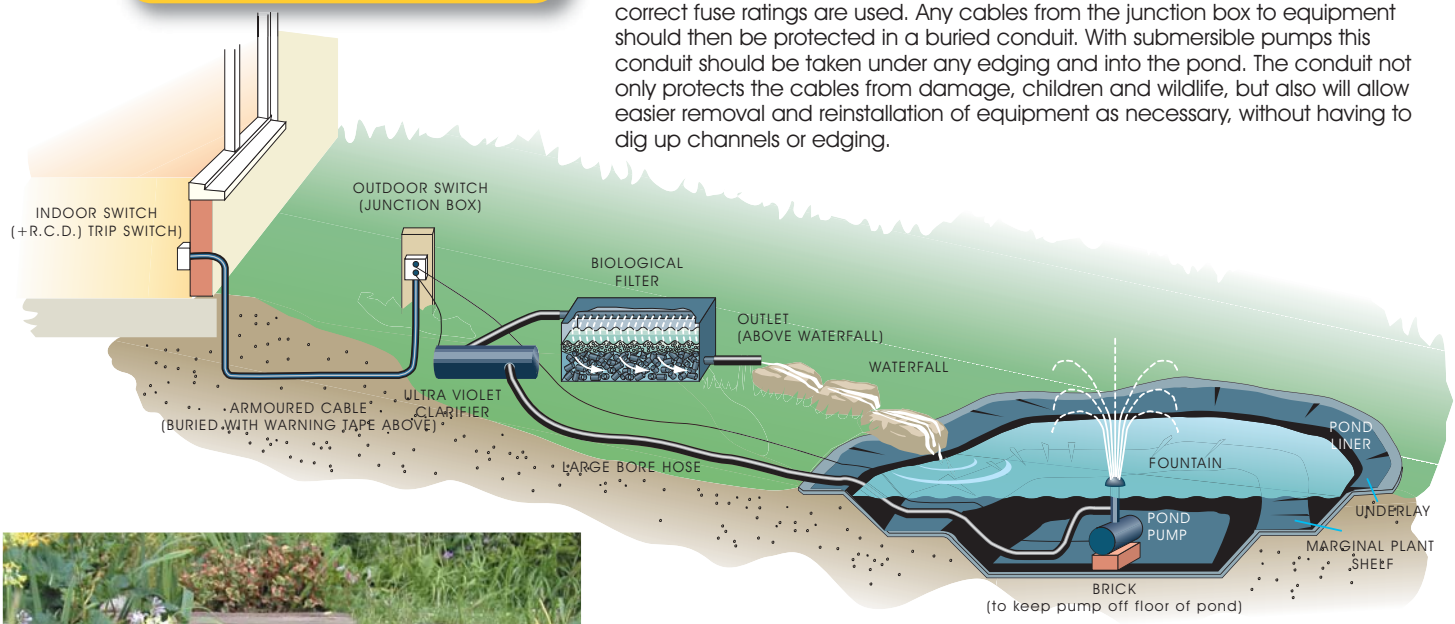
World of Water advise that a qualified electrician is consulted prior to instalation of electrical equipment in, on or near water or ponds.

Visit www.niceic.org.uk

NOW THIS IS IMPORTANT!

Pictured below is a basic layout of a pond, showing how the equipment, cables and hoses may be set out.

The electrics are extremely important and particular care should be taken to use the correct equipment. Armoured cable which should be buried (with a warning tape above) is used to take the power from a 13 amp source in the house or out building to a suitable junction switch box securely fixed above ground level next to the pool. This supply must be protected by an R.C.D. (Trip Switch) at the source of the cable before entering the garden. Most switch boxes are fused and care should be taken to ensure the correct fuse ratings are used. Any cables from the junction box to equipment should then be protected in a buried conduit. With submersible pumps this conduit should be taken under any edging and into the pond. The conduit not only protects the cables from damage, children and wildlife, but also will allow easier removal and reinstallation of equipment as necessary, without having to dig up channels or edging.



Pipe work should be positioned so it is accessible, while being buried to avoid damage and looking unsightly. (Pipes will vary in strength - do not bury too deep, as this may cause them to be crushed). It is strongly recommended not to concrete pipes in and if they need to go through or under pond edging or under a path, it is advised to concrete in a larger conduit and then sleeve the hose through, allowing easier access for replacement or repairs. To achieve the maximum flow available from your equipment you should consider the shortest desirable route for any hoses, while ensuring the hose size is suitable for the equipment - usually at least 1 inch (2.5 cm) with mid range pumps.

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.

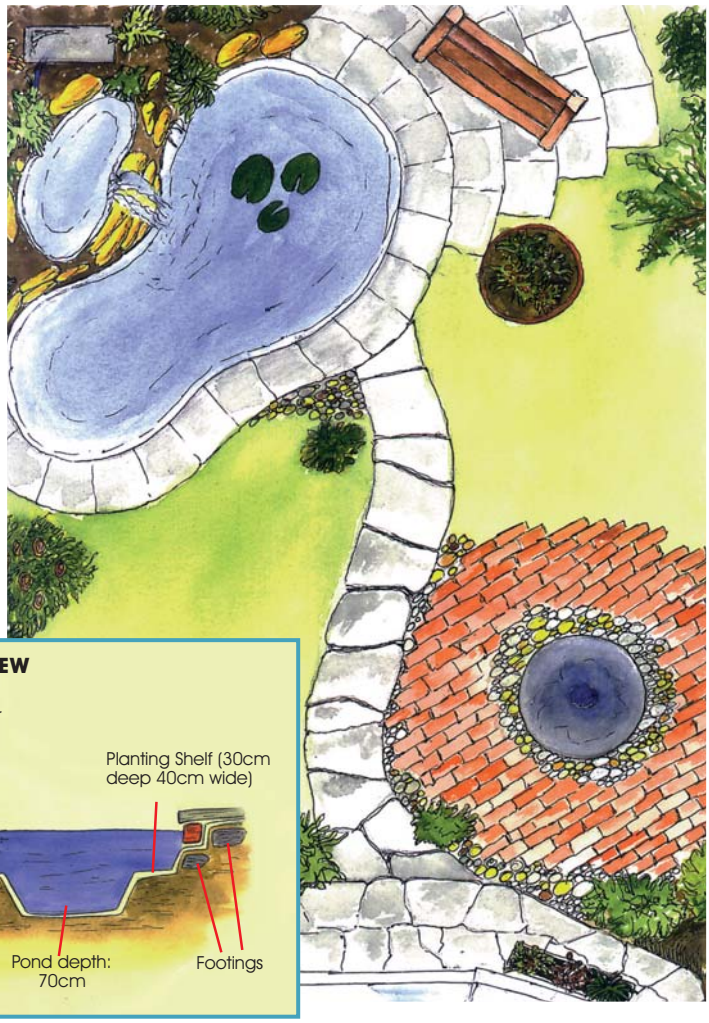
Ensure all electrical equipment is positioned to avoid accidental damage.

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

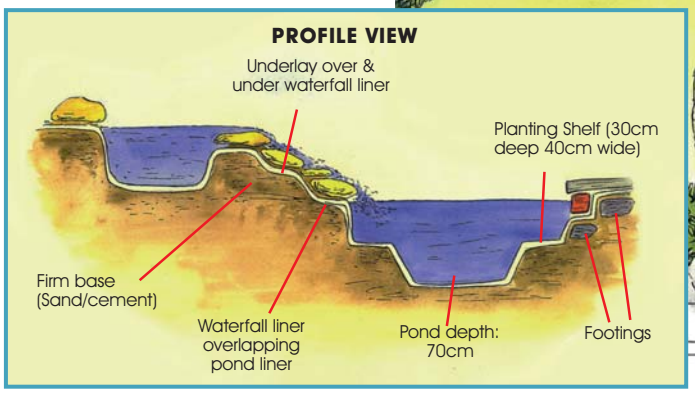
Now you have considered all the key factors affecting the style and position for your desired pond. You have consulted one of our experts about equipment and any additional advice required. You should now be ready to sketch out your plans.



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
3 metres	x	2 metres	x	0.5 metres	x	1,000	=	3,000 litres
9.9 feet	x	6.6 feet	x	1.65 feet	x	6.25	=	674 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.

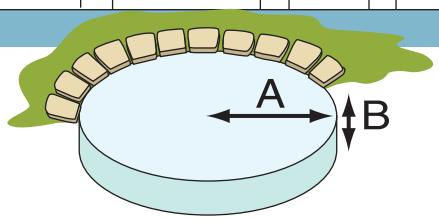
Avoid boggy wet areas.

Check there are no underground services etc.

Consider pond safety.

To calculate the volume of a circular pond (Pi x radius^2):

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



World of Water AQUATIC CENTRES
www.worldofwater.com

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.

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.***

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					
	2m²	4m²	6m²	8m²	10m²	12m²
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

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

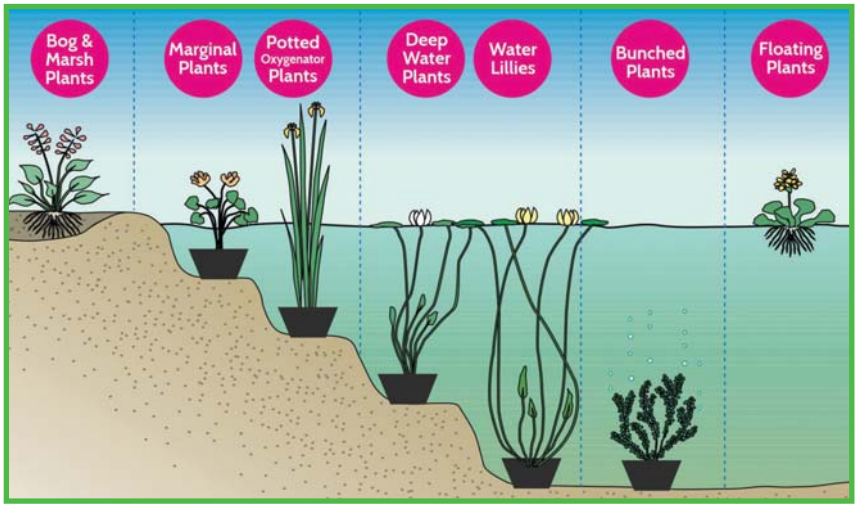
To avoid disappointment always use the correct soil and containers in your pond, as this will promote the growth and flowering of your plants.

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.

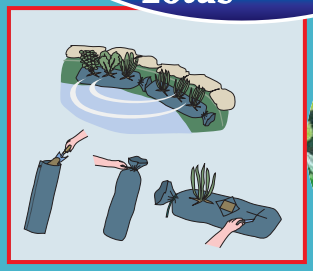
POSITIONING

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 maintenance easy
- 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

Images are copyright of Anglo Aquatic Plants Co Ltd

Angelica archangelica

Statuesque plant with large architectural foliage and round seed heads.

Astilbe red *(False Goat's Beard)*

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

Darmera peltata *(Indian Rhubarb)*

White or yellow coloured flowers blooming in spring befor largr round scalloped edges leaves appear

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.

Gunnera manicata *(Giant Prickly Rhubarb)*

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

Hosta 'Bressingham Blue'

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

Ligularia den Desdemona

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

Primula denticulata

The drum stick shaped flowers have small yellow centres.

Primula veris *(Cowslip)*

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

Images are copyright of Anglo Aquatic Plants Co Ltd

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 it's 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.

Acorus Calamus 'Variegatus'
(Variegated Sweet Flag)

As Acorus calamus but with green and cream vertical striped leaves.

Anemopsis californicum
(Apache beads)

It has beautiful, white scented flowers and broad dark green leaves. The flowers and leaves can be dried for potpourri.for potpourri.

Butomus umbellatus *(Flowering rush)*

Pretty pink flowers in umbels rise above triangular leaves which turn red to dark green as they mature.

Caltha palustris *(Marsh Marigold)*

Once established it produces a mass of bright yellow flowers in early spring.

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

: 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

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.

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.

Carex acuta (Slender-tufted sedge)

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

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.

Carex riparia (Greater pond sedge)

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

Colocasia rubra Black Magic
(Elephant Ear)

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

Cotula coronopifolia (Brass buttons)

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

Equisetum hyemale (Dutch rush)

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

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.

Geum rivale (Water avens)

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

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.

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Marginal Plants

Houttuynia cordata 'Chameleon'
(Harlequin plant)

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

Houttuynia cordata Plena
(Orange peel plant)

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

Hypericum teptrapterum
(Square-stalked St John's wort)

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

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.

Iris louisiana 'Her Highness'

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

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.

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.

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.

Iris pseudacorus 'Alba'

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

Iris robusta 'Gerald Darby'

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

Iris versicolor *(Poison flag)*

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

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.

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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.

Lobelia fulgens 'Queen Victoria'

The wonderful purplish-red foliage contrasts excellently with the brilliant red flowers. Harmful if eaten

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.

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

Lysichiton camtschatcensis
(White Skunk Cabbage)

As Lysichiton americanus but with white flowers and slightly shorter growing. Harmful if eaten/skin & eye irritant.

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

Lysimachia thyrsiflora
(Tufted loosestrife)

An erect form of Lysimachia bearing tall spires of tapering green leaves and many dense golden-yellow flowers in early summer.

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 summerr.

Mazus reptans *(Chinese Marshflower)*

A low creeping marginal that forms dense mats of blue flowers prolifically throughout the summer.

Mentha aquatica *(Water Mint)*

A strong mint scented herb, covered with pinkish lilac flower heads. It used to be grown for it's essential oils.

Mentha cervina
(Water spearmint, Preslia cervina)

Aromatic plant covered with lilac flower heads. It has a spearmint smell.

Mentha pulegium
(Pennyroyal Pudding grass)

A creeping variety with small leaves and, as member of the Mentha family, it has a minty smell.

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Marginal Plants

Menyanthes trifoliata *(Bog Bean)*

A rambling plant with trifoliate olivegreen foliage that creeps over the surface of the water

Mimulus guttatus *(Common Monkey-flower)*

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

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

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.

Myosotis scorpioides 'Snowflakes'
(White water forget-me-not)

White flowers on green leaves.

Myosotis scorpioides variegata
(Variegated water forget-me-not)

Blue flowers surmount striking green and white variegated leaves

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.

Persicaria bistorta *(Adderwort)*

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

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.

Pontederia cordata *(Pickeral Weed)*

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

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.

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.

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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.

Ranunculus acris Flore Pleno
(Yellow batchelor's buttons)

Masses of small yellow tight double button-like flowers are produced on almost leafless stems.

Rorripa nasturtium aquaticum
(Water Cress)

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

Sagittaria sagittifolia *(Arrowhead)*

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

Scirpus tabernaemontani 'Zebrinus'
(Zebra Rush)

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

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.

Thalia dealata *(Powdery Alligator Flag)*

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

Typha gracilis *(Medium Reedmace)*

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

Typha minima *(Miniature Bullrush)*

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

Veronica beccabunga
(Brookline)

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

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.

Zephyranthes candida
(White rain lily)

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

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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

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.

Nuphar Lutea

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

Nymphoides Peltata

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

Alba

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

Albatross

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

Almost Black

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

Attraction

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

Aurora

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

Images are copyright of Anglo Aquatic Plants Co Ltd

: Native to Britain L : large M : medium S : small D : dwarf

Barbara Dobbins

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

Black Princess

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

Charles de Meurville

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

Colonel A J Welch

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

Colorado

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

Conqueror

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

Darwin

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

Escarboucle

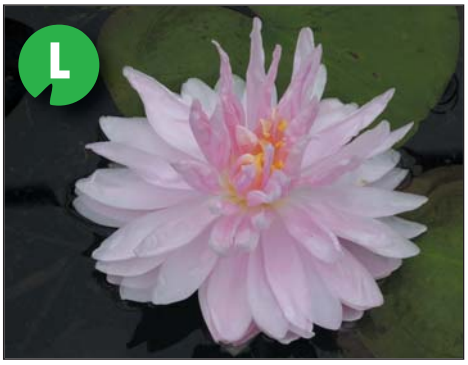
Golden stamens and rich green foliage, has bright red petals, outer petals are a little paler.

Fabiola

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

Gladsoniana

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



Gloire de Temple Sur Lot

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

James Brydon

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

Images are copyright of Anglo Aquatic Plants Co Ltd

Water Lilies

Joey Tomocik

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

Laydekeri Lilacea

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

Lemon Mist

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

Madame Wilfron Gonnere

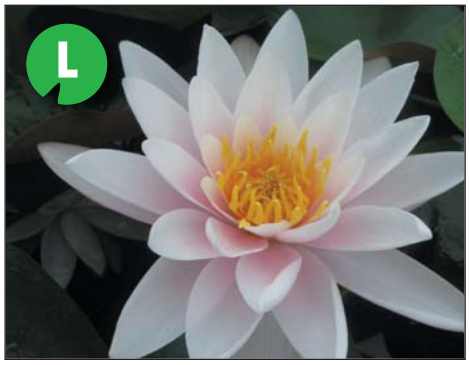
The large, double, rose-pink blooms of this classic water lily are surrounded by elegant foliage.

Marliacea Carnea

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.

Perry's Baby Red

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



Marliacea Carnea

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

Marliacea Chromatella

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

Masaniello

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

Mayla

Rich, fuchsia-pink blooms surrounded by elegant foliage.

Odorata Firecrest

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

Odorata Sulphurea

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

Images are copyright of Anglo Aquatic Plants Co Ltd

L : large M : medium S : small D : dwarf

Perry's Double White

Hybridized by the breeder Perry D. Slocum, this free-flowering water lily has striking white flowers with a double layer of petals.

Perry's Fire Opal

The deep pink double flowers of this graceful water lily look superb against the fiery, multi-coloured foliage

Pygmaea alba

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.

Pygmaea helvola

Prolific tiny star-shaped soft flowers. It has the smallest flowers of any hardy nymphaea

Pygmaea rubra

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.

Rose Arey

The large, rose-pink, stellate flowers of this charming water lily have slightly incurved petals.

Sirius

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

Sioux

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

Sunny Pink

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

Wanvisa

The flowers of this unique variety are predominantly pink with cream flecks but sometimes they are part or all yellow.

White Sultan

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

Xiafei

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

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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.

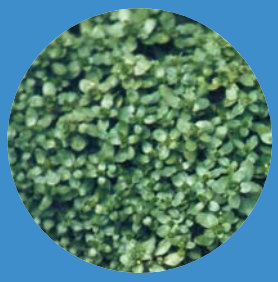
HOW TO PLANT

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

Rannunculis aquatilis
Water Crowfoot

examples of FLOATING PLANTS

Hydrocharis morsus ranae. Frogbit

Pistia Stratiotes.
Water Lettuce.

Stratiotes Aloides.
Water Soldiers.

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

Eleocharis acicularis

Slender little tufted plant with needle-like stems, each terminating in a brown spikelet.

Hippuris vulgaris

Attractive low growing vertical bottle brush type stems rise out of the water.

Hottonia palustris

A good oxygenator. This charming native bares handsome foliage & whorls of lilac flowers.

Hydrocotyle nova zealand

This perennial forms a carpet of miniature round leaves.

Hydrocotyle sibthorpioides var

An attractive perennial that forms a carpet of miniature round leaves edged with cream.

Lilaeopsis brasilensis

It forms a lawn like carpet at the bottom of the pond making it a good oxygenator

Marsilea quadrifolia

The clover like leaves rise above the surface of the pond.

Myriophyllum brasiliensis red stem

Bright green feathery foliage with red stems above the water.

Myriophyllum crispatum

This attractive foliage rises above the water and produces small reddish flowers.

Pilularia globulifera

Leaves are hair-like and arise from a creeping stem

Ranunculus hederaceus

A pretty little creeping plant. It grows in shallow water or on mud and has little white flowers above the surface.

Scirpus cernuus

The glossy thread-like leaves have minute white flower spikes on the tips of each leaf.

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

Oase LIVING WATER

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

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	

GORDON LOW

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

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

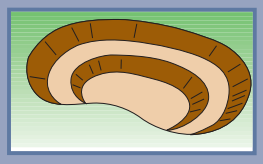
1 Dig the hole to the required shape, taking care to make the sides slightly sloping rather than vertical.

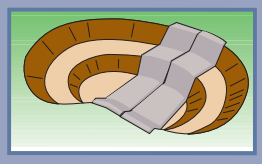
To create marginal planting areas leave steps 20 cm to 40 cm deep (as shown in the illustration). For a perfect finish, ensure that the top edge is level making edging easier with minimal visible liner exposed.

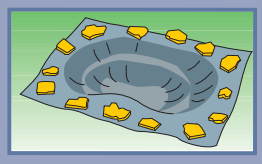
2 Ensure area is free from sharp stones, place underlay on the base and sides and then position the liner. Should you need to tread on the liner remove shoes to avoid piercing. Lightly anchor the liner around the edge of the liner.

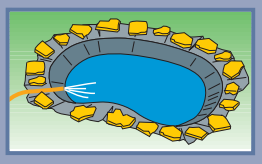
3 Run water into the pool gradually, at the same time pulling and tucking the liner into shape ensuring a neat finish. You'll notice that the liner will stretch at first, then as the weight of water increases, it will mould itself to the shape of the sides. Fill the pool completely, checking that the 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.

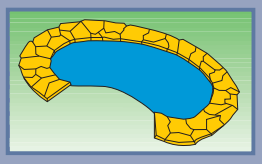
4 After a week you can complete your pool by edging in stone, or paving as desired, allowing for a small overhang to hide the liner from direct sunlight. *See page 11 for edging.*











Pond Products U.K.

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.

Lifetime Guarantee

- 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

HAWAII
675 Lts / 150 Gals
198 x 149 x 61cm

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

VENICE
990 Lts / 220 Gals
228 x 177 x 61cm

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

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

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

OXFORD
2500 Lts / 550 Gals
339 x 209 x 77cm

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

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

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

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

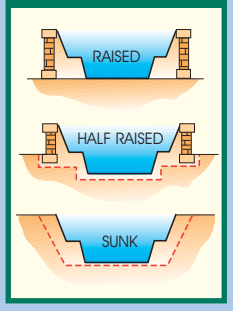
Home Delivery Service available in selected areas. Please check with local store or website for details

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:



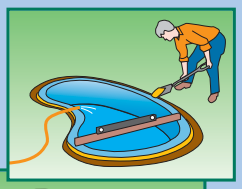
1 Place the pond in position and mark the outline. Remove the pond and excavate the hole 5cm wider and deeper than the pond.

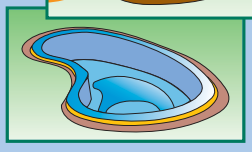
2 Line the excavation with approx 5cm of damp sand.

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.

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

Oase LIVING WATER

PREFORMED PONDS PE

Organic shapes for a natural impression

- Preformed plastic ponds up to 1m³
- Fast easy planting into integrated marsh and plant zones
- Easy pump installation
- 15 year guarantee

PE150
L120 x W80 x H45cm
150 Litres

PE250
L135 x W92 x H54cm
250 Litres

PE500
L178 x W126 x H56cm
500 Litres

PE750
L210 x W140 x H60cm
750 Litres

PE1000
L240 x W140 x H62cm
1000 Litres

Lotus
FOR A BEAUTIFUL GARDEN – JUST ADD WATER

INSTANT POOLS

25 Year 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.

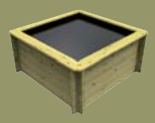
DAMSELFLY

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

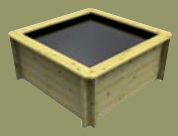
MAYFLY

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

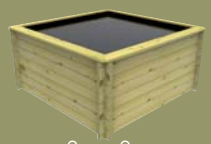
Please check availability at your local store



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.

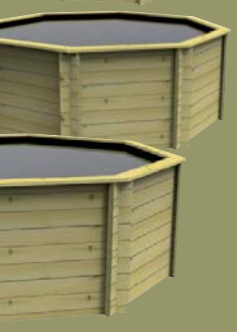
4ft Octagonal
Height Options: 800mm

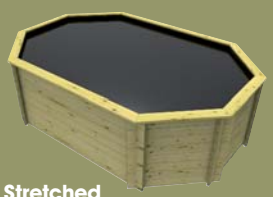
6ft Octagonal
Height Options:
800mm & 1070mm

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
World of Water AQUATIC CENTRES

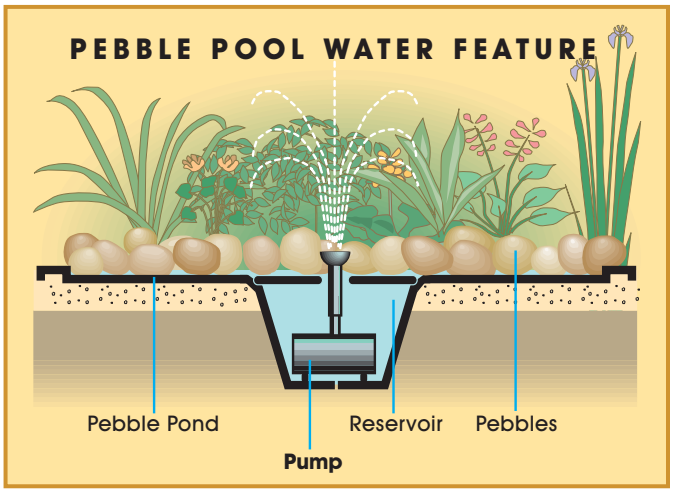
Pebble Pools & Sump Kits

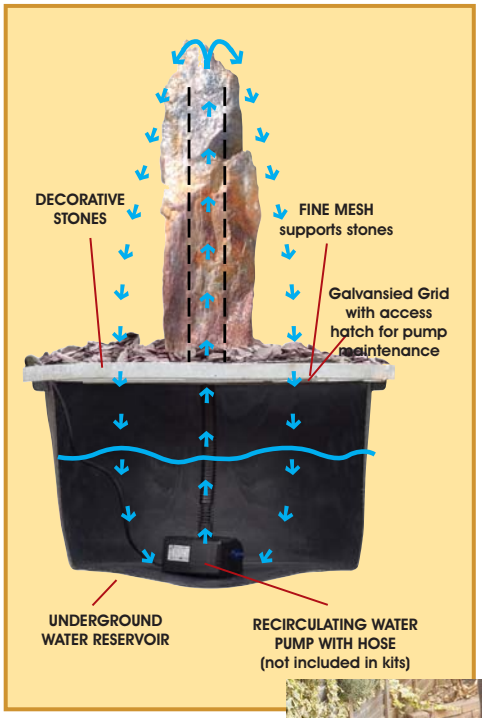
THE MOST POPULAR WAY OF CREATING A PERSONALISED WATER FEATURE

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 gentle 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.

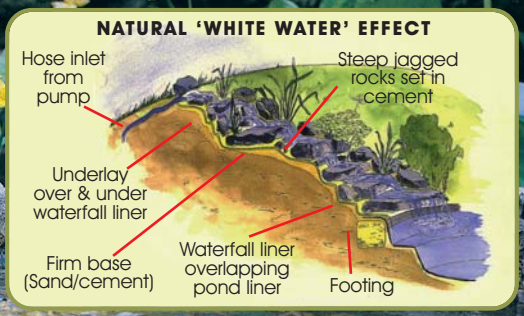
You will find ranges to suit all budgets, pool sizes, rock colour and type. Some cascade units look great on their own, or you may decide to go for a selection of units, which interlock to create a complete stream!

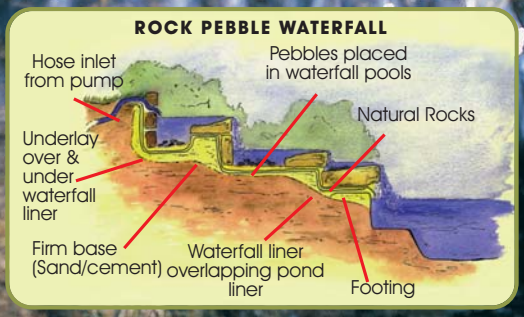
INSTALLING A PRE FORMED WATERFALL

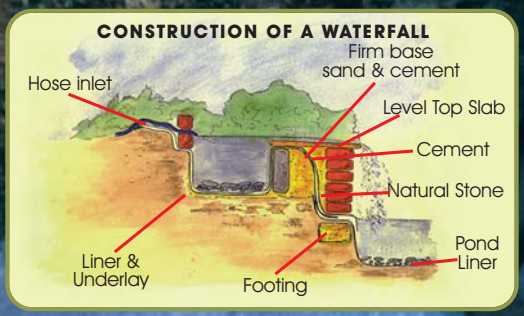
Before starting any waterfall project, consider the size of pump required as the higher and wider the waterfall, the larger the pump needed. In simple terms approximately 1,400Ltrs (300 gallons) per hour is required for a 15cm (6") wide fall. All pumps lose volume (flow) the higher you pump the water, 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.

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.

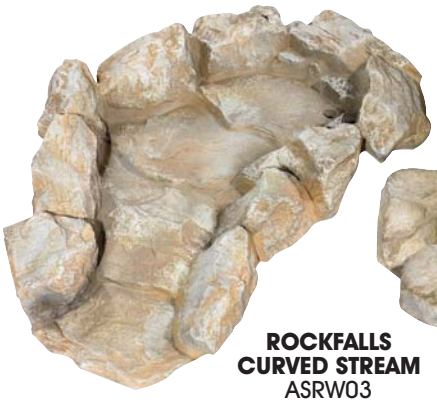
Continue working up the waterfall, remembering to ensure there is plenty of liner coming up each side of the waterfall. It is usually possible to build the hose outlet into the top, however it is best not to cement this in immediately so it may be adjusted after testing the flow.

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.

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.

ROCKWAYS

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 W974cm x H228cm

SLATE LARGE STREAM
ASWO3S
L144cm x W82cm x H228cm

ATLANTIS HIGHLAND

HIGHLAND ROCK FALL
AHWO4P
L87cm x W65cm

HIGHLAND TIERED CASCADE
AHWO2P
L68cm x W69cm

Oase
LIVING WATER

ROCKWAYS

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 Slate Brown
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

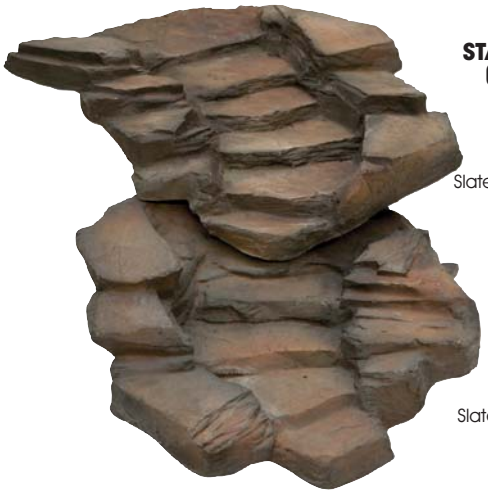
GRAND CANYON

Cliff
FGRS38
Shown in Slate Brown
L85 x W80 x H24cm
Max Flow 4000 LPH
Order No:
Slate Brown 33067 / Grey: 33068

Grand Canyon Right
FGRS36
Shown in Slate Brown
L90 x W80 x H20cm
Max Flow 4000 LPH
Order No:
Slate Brown 73682 / Grey 73683

Grand Canyon Left
FGRS37
Shown in Slate Brown
L100 x W90 x H15cm
Max Flow 4000 LPH
Order No:
Slate Brown 73680 / Grey 73681

SLATE SMALL WATERCOURSE



STAUBBACH FALLS LEFT
(with inlet) **FGRS1a**
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)
FGRS2b
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

Oase
LIVING WATER

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.

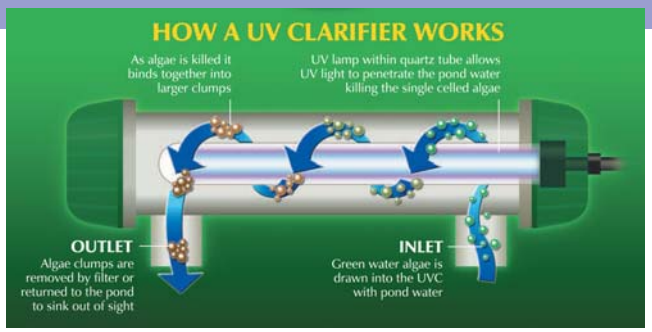
None of these toxins can be seen by the naked eye. However testing the water periodically can easily monitor their levels. See pond Test Kits on pages 62 - 67.

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.



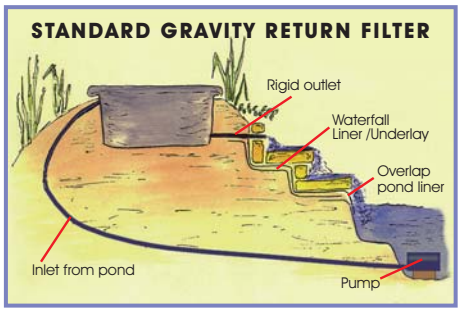
DIFFERENT TYPES OF FILTERS

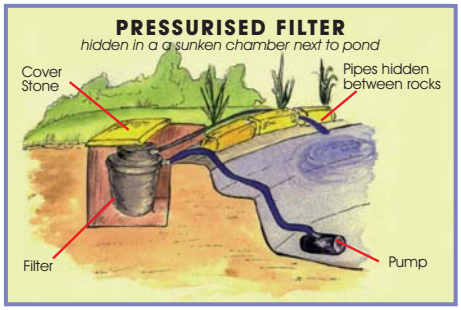
There are three common types of filter, mostly available with combined Ultra Violet Clarifiers. It is important to bear in mind installation options before purchasing.

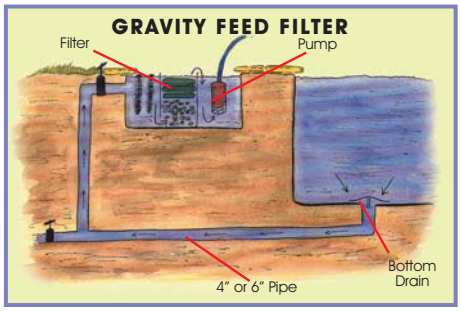
Gravity Return Filters. These filters are pump fed and gravity return. These will require a pump in the pond that feeds the filter. Water will then simply pass through the filter and return to the pond under gravity. This means the filter outlet must be higher than the point at which you want the water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

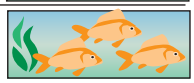
Use a bacterial supplement to start and improve filter performance.

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.

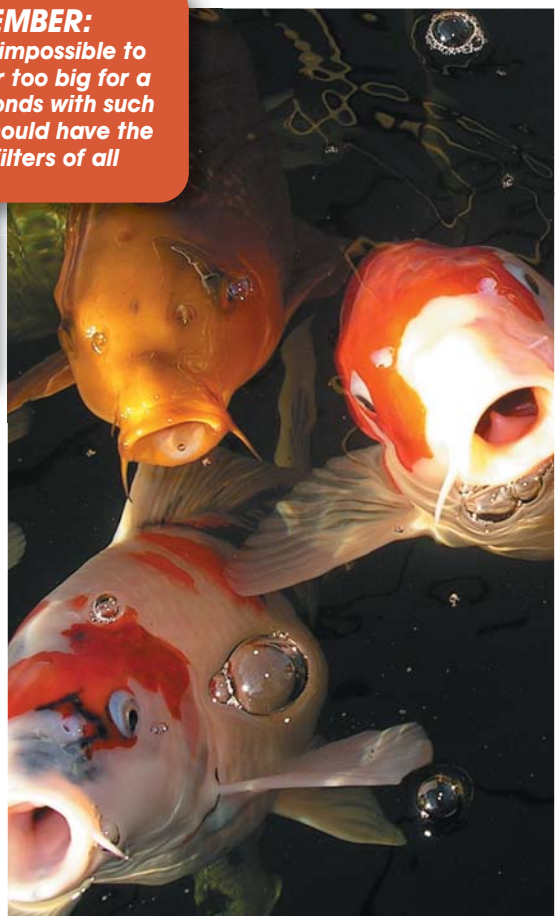
The Symbols

POND ENVIRONMENT	FILTER SYMBOL TO SELECT
Heavy planting/ few fish	
Medium planting/ Average fish stock	
Light planting/ Heavy fish stocks	

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

MODEL	APPROX. SIZE CM	LTS	GALS	LTS	GALS	LTS	GALS	REC. FLOW LTS	REC. FLOW 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	4,1[illegible]0	12,500	2,750	6,250	1,375

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

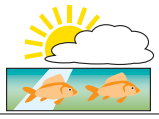
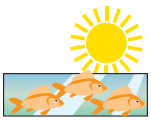


WHICH UVC?

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
FISH STOCK/SUN LEVEL	
Lightly stocked/full shade	
Lightly stocked/part shade Medium stocked/part shade Medium Stocked/full shade	
Lightly stocked/full sun Medium stocked/full sun Heavy stocked/full shade Heavy stocked/part shade Heavy stocked/full sun	

EVOLUTION AQUA

INNOVATION IN WATER

evoUV

ULTRAVIOLET CLARIFIERS FOR PONDS

NEW DESIGN FOR 2021

- Eradicates greenwater in garden ponds
- Features highly efficient ballasts
- IP rating of IPX5
- 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	LTS	GALS	LTS	GALS	LTS	GALS	MAX FLOW/HR LTS	MAX FLOW/HR 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

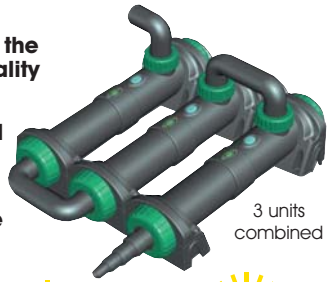
These figures are for guidance only, please seek advice from our experts or refer to manufactures detailed specifications.

Blagdon

EFFECTIVE LONG TERM CONTROL OF GREEN WATER

MINIPOND WATER GARDEN GREEN WATER UV CLARIFIER

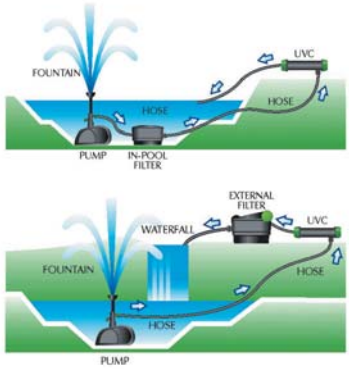
- UV light lamp kills green water algae
- Chemical-free solution
- No detrimental effects to the environment or water quality
- Economical to run
- Safe and simple to install
- Effective in conjunction with all filter systems
- Designed for outdoor use
- 2 year guarantee



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	LTS	GALS	LTS	GALS	LTS	GALS	REC. FLOW LTS	REC. FLOW GALS	UVC WATTS	INLET/OUTLET MM/INCHES
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 LIVING WATER

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

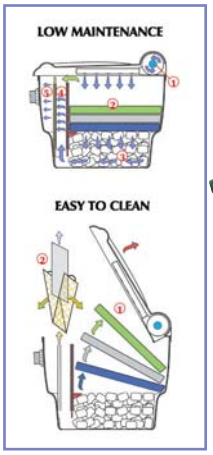
- **Automatic built-in cleaning device for quartz sleeve**
- **Advanced ultra violet clarifier**
- **Increased flow and light levels**
- **Integrated magnets reduce limescale build-up on the quartz sleeve, thus increasing effectiveness and life expectancy**
- **Built-in bypass system for highly effective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

MODEL BITRON	APPROX SIZE (L X W X H)CM	NATIVE POND LTS	NATIVE POND GALS	TYPICAL GARDEN POND LTS	TYPICAL GARDEN POND GALS	EXCLUSIVE FISH POND LTS	EXCLUSIVE FISH POND GALS	MAX FLOW LTS	MAX FLOW 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/ 7259lt

Blagdon

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

pontec Fascinating WaterGardens

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**

Clear Water Guarantee · UVC · Easy Clean · German Technology & Service · 2 Years Guarantee

KIT OPTION comes complete with pump

MODEL MULTICLEAR	APPROX. SIZE CM L H W	UVC WATTS	LTS	GALS	LTS	GALS	LTS	GALS	MAX FLOW LTS	MAX FLOW GALS	SETS INC. PUMP
5000	38.5 x 28.5 x 35	7	5000	1100	2500	550	1500	330	1500	330	1500
8000	38.5 x 28.5 x 48	11	8000	1760	4000	880	2500	550	2500	550	2500
15000	38.5 x 56 x 41	11	15000	3300	7500	916	3750	825	3450	759	3500

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

Lotus

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.

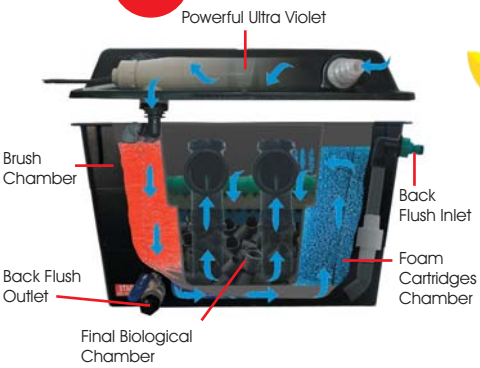
Biological Filtration: Filter foam cartridges & Bio Media help create a mass area for beneficial bacteria, which break down harmful toxins.

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



1 Year Guarantee

Clear Water Guarantee

Mark of Excellence — Made In The UK

CLEARPOND MODEL	SIZE CM L H W	WATTS	LTS	GALS	LTS	GALS	LTS	GALS	REC. FLOW LTS	GALS
Clearpond 18	46 x 30 x 41	18	15000	3300	10000	2200	6000	1300	3000	660
Clear Pond 25	54 x 40 x 39	25	25000	5500	18000	4000	12500	2750	4800	1060
Clear Pond 50	64 x 46 x 49	25 x 2	40000	8800	29000	6300	18000	4000	9000	2000
Clear Pond 80	80 x 50 x 59	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 L H W	LTS	GALS	LTS	GALS	LTS	GALS	OPTIMUM FLOW LTS	GALS	UVC WATTS
3500	38 x 27 x 30	3500	770	1750	385	875	192	1800	396	10
6500	38 x 27 x 30	6500	1430	2165	476	1083	238	2500	550	18
12500	46 x 32 x 41	12500	2750	4165	916	2083	458	3450	759	18
18000	55 x 45 x 31	18000	3959	9000	1980	4500	990	4500	990	18
24000	55 x 45 x 31	24000	5279	12000	2640	6000	1320	6000	1320	25
30000	70 x 43 x 50	30000	6599	15000	3300	7500	1650	9000	1980	25
48000	70 x 43 x 50	48000	10559	24000	5279	12000	2640	10000	2200	50

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 boarders and is beneficial to the garden.

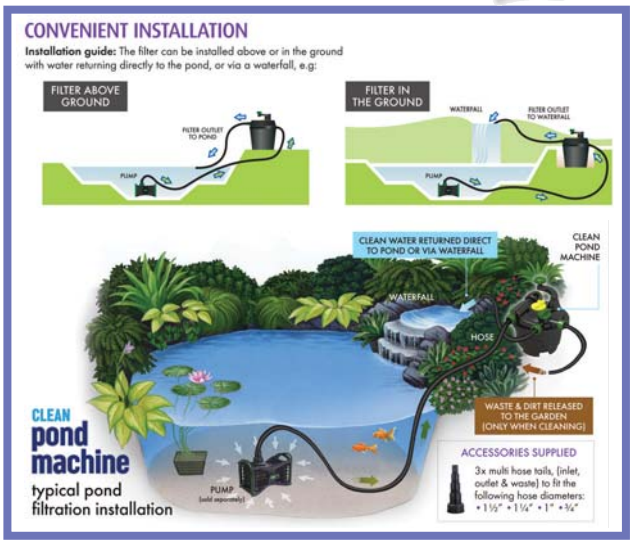
Compact Size

The filter body has been specifically designed to be smaller than conventional pressure filters while still deliveringexceptional 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.**



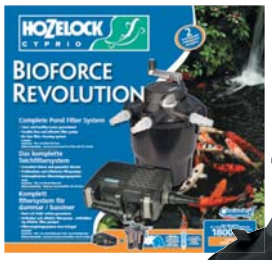
Convenient Installation

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

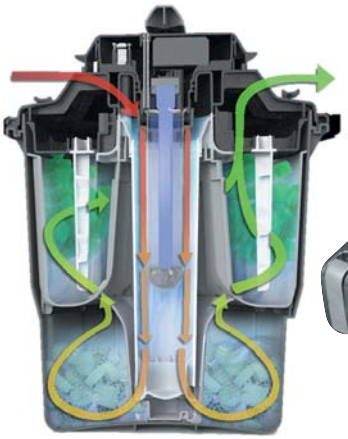
CLEAN POND	CMS	LTS	GALS	LTS	GALS	LTS	MAX FLOW GALS	MAX FLOW LTS	COMB. UVC GALS	COMB. UVC WATTS	REC. FLOW LTS	REC. FLOW GALS	REC HOSE SIZE
7000	42 x 42 x 40	3500	770	1900	418	984	216	3500	770	9	1500	330	25mm / 1"
10000	42 x 42 x 40	5000	1100	2800	616	1406	309	5000	1100	11	3000	661	25mm / 1"
13000	50 x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

HOZELOCK CYPRIO

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**

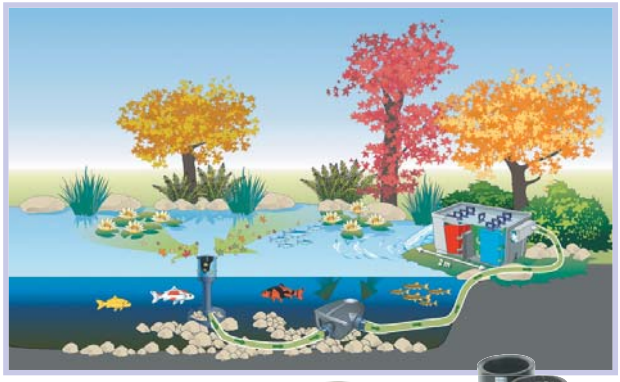


HOZELOCK BIOFORCE	APPROX. SIZE CM	UVC WATTAGE	LTS	GALS	LTS	GALS	LTS	GALS	REC FLOW LTS	REC FLOW GALS	INC PUMP WHEN SOLD AS KIT
Bioforce Revolution 6000	52 x 42	18	12000	2640	9000	2000	6000	1300	4000	880	Aquaforce 4000
Bioforce Revolution 9000	52 x 42	24	18000	3960	13500	3000	9000	2000	4500	990	Aquaforce 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

Oase LIVING WATER

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 25m²**
- **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 50m²**
- **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 20m²

AquaSkim 20 for ponds up to 40m²

AquaSkim Gravity model available to order

Oase LIVING WATER

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

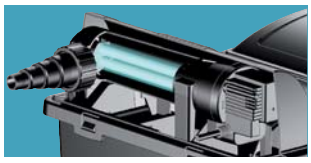
BIOPRESS FILTER SET	APPROX SIZE MM	WATTS	LTS	GALS	LTS	GALS	LTS	GALS	OPT FLOW RATE LTS	OPT FLOW RATE GALS	MAX LIFT	INC PUMP WHEN SOLD AS KIT
4000	225 dia x 335	7	4000	880	2000	440	1000	220	1500	330	1.9m	FP 1500
6000	350 dia x 450	9	6000	1320	3000	660	1500	330	2500	550	2.2m	FP 2500
10000	350 dia x 570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

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**



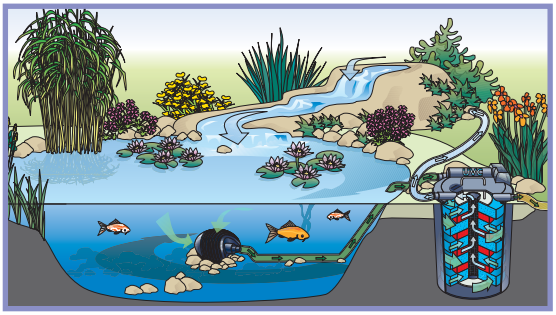
OASE BIOSMART	LTS	GALS	LTS	GALS	LTS	GALS	COMB. UVC WATTS	INCLUDED PUMP (WITH SETS ONLY)
Biosmart Set 7000	7000	1540	3500	770	1700	370	9	FP 2500
Biosmart Set 14000	14000	3080	7000	1540	3500	770	11	FP 3500
Biosmart Set 18000	18000	4400	9000	2200	4500	990	18	Aquamax Eco 5500
Biosmart Set 24000	24000	5290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

Oase LIVING WATER

FILTOCLEAR

The ADVANCED Filter Generation From Oase

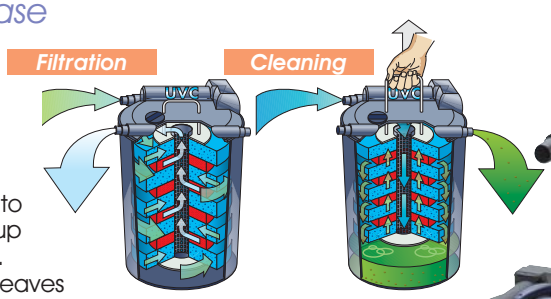
- **Pressurised Filter - Pressurised Outlet**
- **Cleaning System - For ease of maintenance**
- **Attach a hose to discharge waste into drain**
- **Safety catch on tension ring**
- **Integrated UV Clarifier**
- **Complete Filtration Packages**



The FiltoClear range of filters is a highly developed range of pressure filters designed with ease of use and quality filtration in mind.

The pond water is pumped into a sealed filter unit operating up to a pressure of up to 0.2 bar. This in turn means that water leaves the filter under low pressure, allowing the water to be pushed up to a waterfall, unlike a conventional gravity return filter, which must always be positioned at the highest point of the system.

The Filtoclear pressure filter also has been designed with all the connections and major operating elements in the lid allowing the filter to be partly buried out of sight.



RECOMMENDED PUMP TO COMPLETE KIT

FILTOCLEAR MODEL	APPROX SIZE	WATTS	LTS	GALS	LTS	GALS	LTS	GALS	MAX. FLOW LTS	MAX. FLOW GALS	OUTLET	AQUAMAX ECO PREMIUM
3000	380dia x 300 mm	9w	3000	660	1500	330	750	165	4000	880	¾"–1½"	4000
6000	380dia x 420 mm	11w	6000	1320	3000	660	1500	330	6000	1320	¾"–1½"	6000
12000	380dia x 510mm	18w	12000	2650	6000	1300	3000	660	8000	1800	1½"–2"	8000
16000	380dia x 630mm	24w	16000	3500	8000	1800	4000	880	10000	2200	1½"–2"	10000
20000	380dia x 750mm	36w	20000	4400	10000	2200	5000	1100	16000	3520	1½"–2"	12000
30000	380dia x 750mm	55w	30000	6600	15000	3300	7500	1650	16000	3520	1½"–2"	16000

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

Oase LIVING WATER

Biotec ScreenMatic²

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 ScreenMatic² Filtration Sets

Complete filtration systems, including an energy-efficient AquaMax Eco Premium filtration pump, Bitron C UVC and Biotec ScreenMatic² filter

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

SCREENMATIC² FILTRATION SETS	APPROX. SIZE CM L X W X H	LTS	GALS	LTS	GALS	LTS	GALS	INCLUDED FILTER	INCLUDED UV	INCLUDED PUMP
Set 40,000	79 x 59 x 45	20000	4405	15000	3304	10000	2203	ScreenMatic2² 40,000	Bitron 36C	Aquamax Eco Prem 12000
Set 60,000	79 x 59 x 55	30000	6608	22500	4956	15000	3304	ScreenMatic2² 60,000	Bitron 55C	Aquamax Eco Prem 16000
Set 90,000	79 x 59 x 55	45000	9740	33750	7305	22500	4870	ScreenMatic2² 90,000	Bitron 110C	Aquamax Eco Prem 20000
Set 110,000	120 x 80 x 76	55000	12115	40000	8811	27500	6057	ScreenMatic2 140,000	Bitron 110C	Aquamax Eco Prem 16000
Set 120,000	120 x 80 x 76	60000	13216	45000	9912	30000	6608	ScreenMatic2 140,000	Bitron 110C	Aquamax Eco Prem 20000
Set 140,000	120 x 80 x 76	70000	15419	52500	11564	35000	7709	ScreenMatic2 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)

Easy Garden Control

The smart revolution

With OASE EASY GARDEN CONTROL (EGC) 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.

EGC 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.

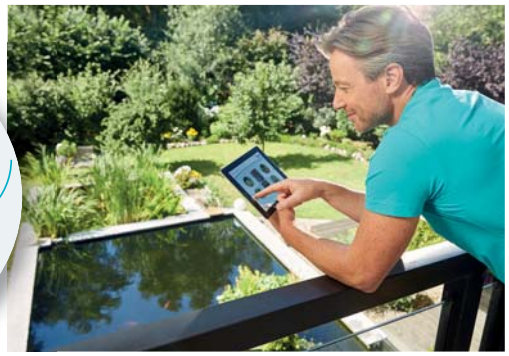
1. OASE FM-Master series is the heart of the Easy Garden Control system. It enables control via tablet or smart phone with iOS or Android (Router required if linking to home wifi).

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.

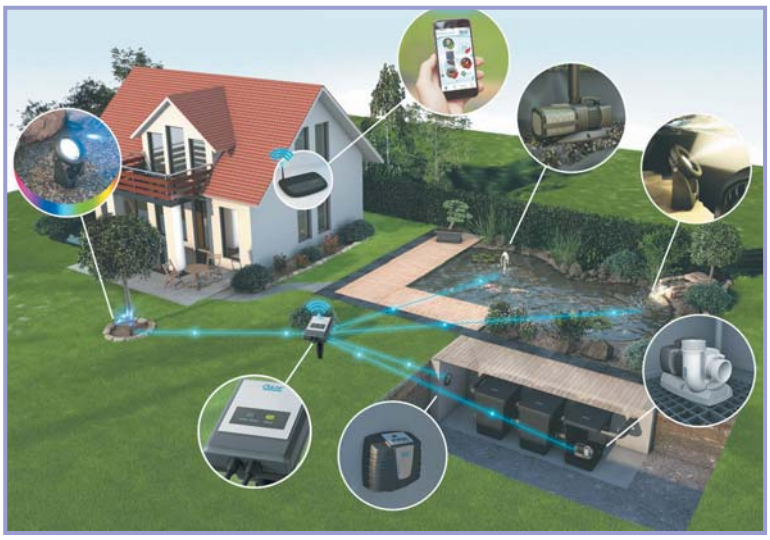
3. ProfiClear Premium EGC: The ProfiClear Premium with extensive analyses concerning rinse water consumption, temperature curves, or mobile information in the event of malfunctions. Gravity-fed models have an additional sensor which detects failure of pumps.

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)

EASY GARDEN CONTROL



- **Smart networking of OASE EGC 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**



ProfiClear Premium Compact Filters

- **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**

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.

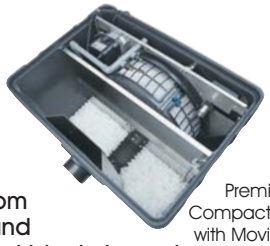
Pollutant rakes on the sieves aids removal of string algae and other larger particles from the drum.

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.

PUMP OR GRAVITY FED OPTIONS

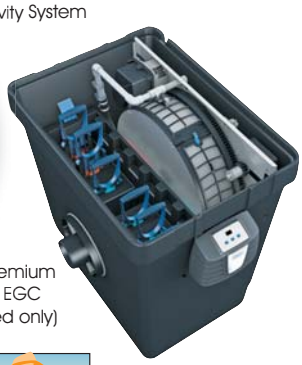
Premium Compact M EGC pump fed

Premium Compact L EGC Gravity System



Premium Compact M EGC with Moving Bed Filtration

EASY GARDEN CONTROL



Biotec Premium 80,000 EGC (Pump Fed only)

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

PROFICLEAR FILTER MODEL	SIZE L X W X H	LTS	GALS	LTS	GALS	LTS	GALS	MAX FLOW LTS	MAX FLOW 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

Oase LIVING WATER

Proficlear Premium Filtration

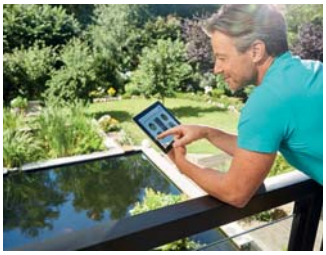
Perfect for koi ponds, swim ponds and other large bodies of water.

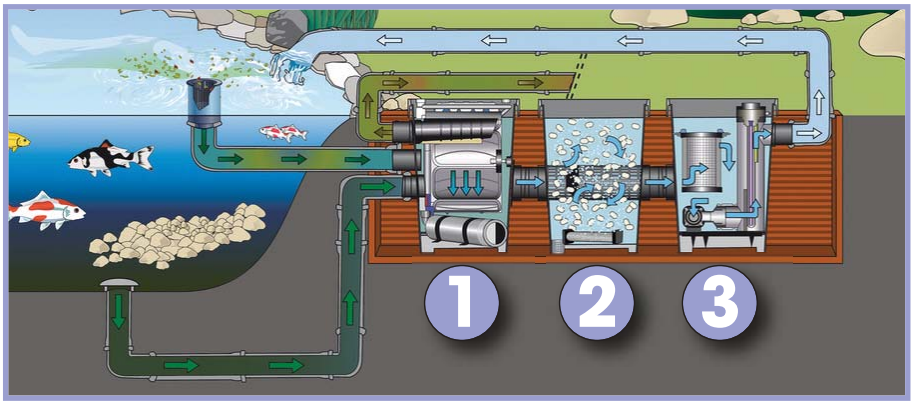
Innovative modular filter system for professional water quality.

Developed by and with koi experts

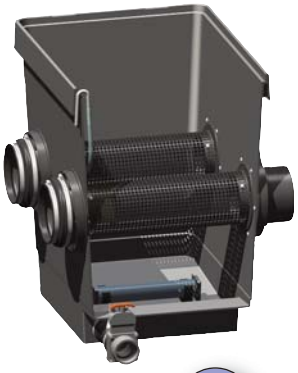
Excellent decomposition rates of ammonium/ ammonia and nitrite.

The ProfiClear Premium range can be integrated into the OASE Easy Garden Control system (Optinal EGC controller required). With the OASE Easy Garden 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 530m³ (100m³ 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 EGC

- **Most effective filter performance with flow rate of up to 33m² 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 Easy Garden Control System (EGC), 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 biomedia 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 704m²/m³ | Kaldnes K1 500m²/m³)**
- **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 m²/m³.**
- **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 liters 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

AquaOxy Air Pump (optional)

Bitron Gravity 55W (not included)

AquaMax Eco Expert 21000 (not included)

	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
Indivdual 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	150001	40000

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

eazypod

AUTOMATIC SYSTEM

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**

EVOLUTION AQUA
INNOVATION IN WATER

EazyPod Automatic

THE EASIEST OF GARDEN POND FILTERS JUST GOT EVEN EASIER

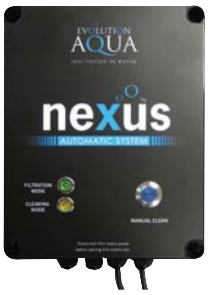
- **Hassle free filtration with automatic cleaning**
- **Control box operates valves and pumps**
- **Adjustable timer controls cleaning cycle**
- **Manual cycle can be carried out at touch of a button**
- **Now utilises K1 Micro for improved water quality**
- **Available as EazyPodComplete or EazyPod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

MODEL	MAX FLOW LTS	MAX FLOW GALS	LTS	GALS	LTS	GALS	LTS	GALS	UVC WATTS	AIR PUMP
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

eazypod™ complete

UPGRADE NOW FOR AUTOMATED CLEANING

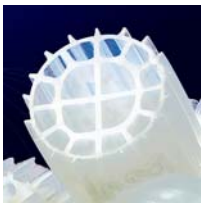
nexus+™



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**

MODEL	MAX FLOW LTS	MAX FLOW 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



K+Media

USES OUR ADVANCED FILTRATION MEDIA

NEW PRODUCT FOR 2021

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**

Combined Pond Pump Filters

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

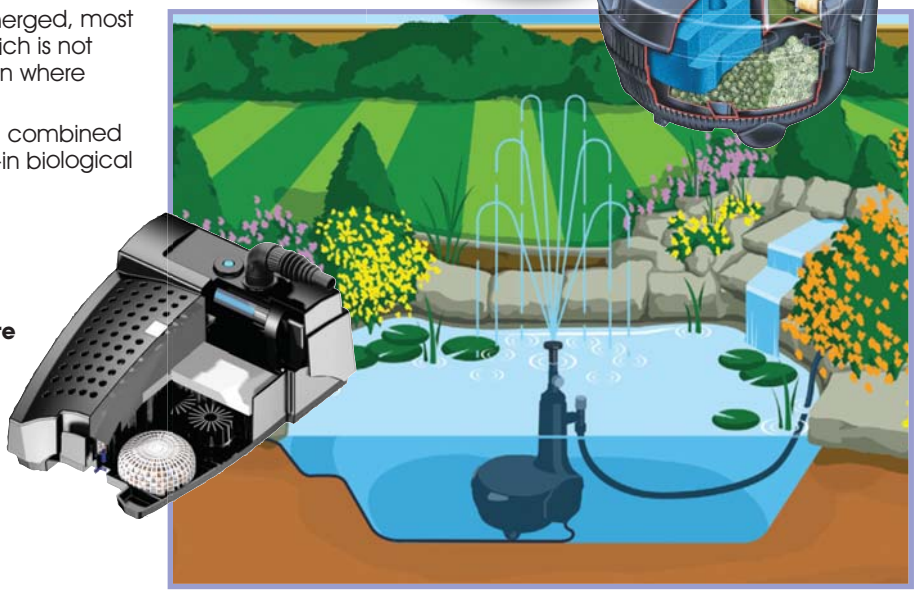
Convenient All-In-One Submersible
- **PUMP**
- **FILTER**
- **UVC**

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*

Blagdon

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.

CLEAR WATER GUARANTEED

THREE YEAR 3 GUARANTEE

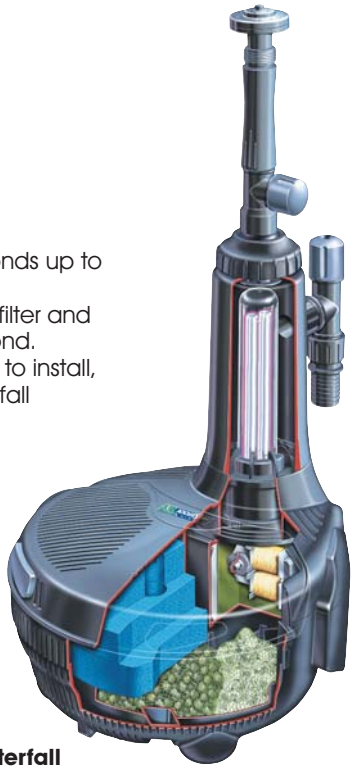
- **Significantly lower maintenance than other in-pond solutions, due to the large filtration surface area. (up to 3 times larger)**
- **Stunning LED night illumination for your enjoyment throughout the evening**
- **Easy to change Polymer wool cartridge, to ensure crystal clear water**
- **Clear water 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 LTS	MAX FLOW GALS	LTS	GALS	LTS	GALS	LTS	GALS	UVC WATTS	MAX HEAD	PUMP WATTS
2000	650	143	2000	441	1500	330	1000	220	5	1.25	10
3000	700	154	3000	661	2250	496	1500	330	5	1.25	10
6000	1500	330	6000	1322	4500	991	3000	661	9	1.3	26.5
9000	3000	661	9000	1982	6750	1487	4500	991	9	2	49.5

HOZELOCK CYPRIO

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 biomedia 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**

EASYCLEAR MODEL	MAX FLOW LTS	MAX FLOW GALS	PUMP POWER	LTS	GALS	LTS	GALS	LTS	GALS	UVC POWER
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 LIVING WATER

NEW AND IMPROVED MODELS

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.

MODEL	MAX FLOW LTS	MAX FLOW GALS	LTS	GALS	LTS	GALS	UVC WATTS	MAX HEAD	TOTAL WATTS
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

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

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.

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

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.

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.

Are you having a waterfall? Yes → The wider you wish your waterfall to be, the greater the flow required for it to look effective. To calculate follow this simple formula.

WIDTH OF SPILL	MULTIPLY FACTOR	EQUALS FLOW REQUIRED
cm	multiply by 91	lt/hr
in	multiply by 50	gal/hr

→ **Flow required for Waterfall...** A= Lts/Gals

No ↓

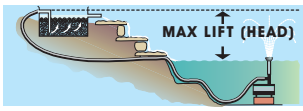
Are you running filtration? Yes → The volume of the pond should be circulated through the filter every 1-2 hours. To calculate follow this simple formula. To calculate pond volume refer page13

POND VOLUME	DIVIDE BY FACTOR	EQUALS FLOW REQUIRED
lts	divide by 1.5	lt/hr
gal	divide by 1.5	gal/hr

→ **Flow required for Filter...** B= Lts/Gals

No ↓

Pumping head.... → Are you **ONLY** going to operate a Fountain directly off the pump with no Waterfall or Filter? No →



Max Lift from water surface

Max Lift= M/Ft

Yes ↓

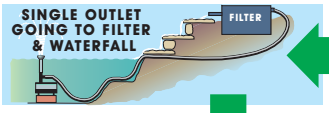
Finally.... → Most pumps come supplied with a fountain jet. Would you like to use it? Yes →

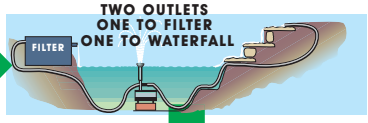
Small Fountain	455Lt/hr	100gal/hr
Medium Fountain	910Lt/hr	200gal/hr
Large Fountain	1365Lt/hr	300gal/hr

→ **Flow for Fountain...** C= Lts/Gals

No ↓

There are two common ways of equipment set up. Please choose the best option for you.





Take the greater value of A or B

A= Lts/Gals

B= Lts/Gals

Flow Rate Lts/Gals per hour

Lts/Gals

C= Lts/Gals

Add the two figures above

Add the following

A= Lts/Gals

B= Lts/Gals

C= Lts/Gals

Flow Rate Lts/Gals per hour

Summary: Flow Rate required Lts/Gals @ a Head of M/Ft

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	MAX FLOW GALS	FLOW @.5M/1.65 FT LTS	FLOW @.5M/1.65 FT 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 @3M /9.9 FT LTS	FLOW @3M /9.9 FT 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	6300	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

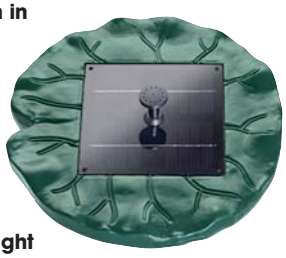
locate your nearest electrical recycling facilities at recycle-more.co.uk

pontec
Fascinating WaterGardens

SOLAR FOUNTAIN PUMPS

2 YEAR GUARANTEE

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

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

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 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®
mains free features

Lithium Battery Powered
Solar Recharged

THREE YEAR 3 GUARANTEE

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

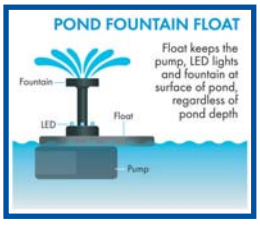
Continuous on: Runs for a maximum number of hours possible daily. Restarts automatically every morning. Ideal for wildlife ponds

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)

HEAD (cm)	
125	0
100	33
75	63
50	99
25	157
0	200
BATTERY LEVEL	HIGH 8.4V

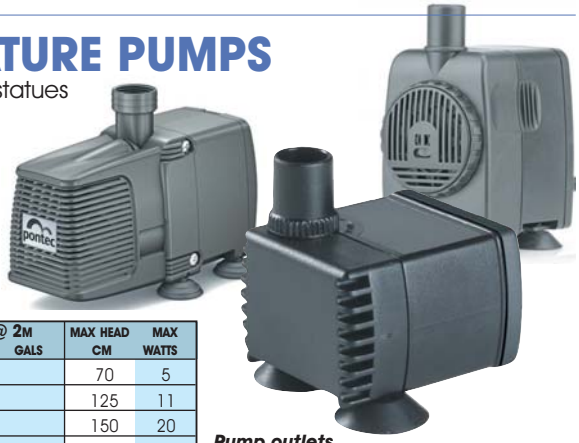


pontec
Fascinating WaterGardens

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')

Blagdon

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	

HOZELOCK CYPRIO

3 Year Guarantee

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 LTS	MAX GALS	0. 5M LTS	1.65FT GAL	1.0M LTS	3.3FT GALS	1. 5M LTS	4. 95FT GALS	2.0M LTS	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	

Oase LIVING WATER

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

LIVING WATER

Simple, compact and versatile pond pump ideal for fountains, features and waterfalls (depending on model)

AQUARIUS FOUNTAIN SET

- Easy-to-install
- Second outlet with hose tail for ½" to 1½" 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	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	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

Blagdon

AMPHIBIOUS IQ

ENERGY SAVER POND PUMPS

THREE YEAR 3 GUARANTEE

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.

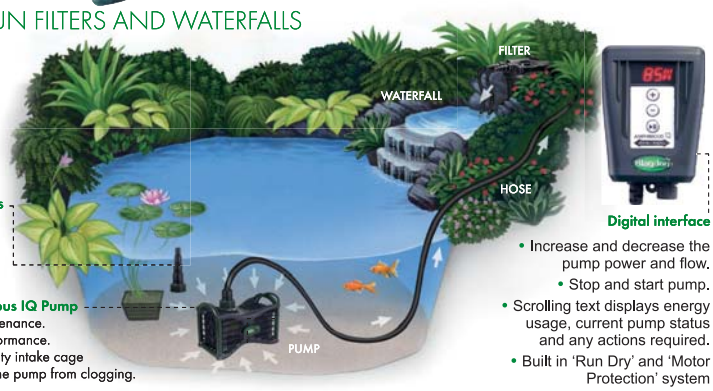
Flexible Power Usage Control & Display: Stop, start or increase or decrease power and flow at a push of a button for optimum performance and maximum energy saving.

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.

ADJUSTABLE POWER · DIGITAL MOTOR · ADJUSTABLE FLOW

- For Filters & Waterfalls
- Powerful & Economical
- Adjustable to suit pond & season
- Low Maintenance

TO RUN FILTERS AND WATERFALLS



Fits hose diameters
- 1½"
- 1¼"
- 1"
- ¾"

Amphibious IQ Pump
Low maintenance.
High performance.
Low velocity intake cage prevents the pump from clogging.

Digital interface
- Increase and decrease the pump power and flow.
- Stop and start pump.
- Scrolling text displays energy usage, current pump status and any actions required.
- Built in 'Run Dry' and 'Motor Protection' system

STANDARD POND
MEDIUM POND
LARGE + POND
EXTRA LARGE POND

AMPHIBIOUS IQ MODEL	MAX FLOW LTS	MAX 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
IQ 2250-4500	4900	1079	2800	617	2100	463	1400	308					25	3
IQ 3000-6000	5900	1300	4800	1057	3900	860	3050	672	1750	385	875	192	35	4.2
IQ 4500-9000	8700	1916	6200	1366	5100	1123	3500	771	2000	441	1300	286	60	4.5
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 25% energy compared to traditional pumps.
- Pumps debris up to 8 mm in size
- Hose outlet has ball joint for easy hose direction.
- Stepped hosetail for connecting 3/4", 1", 1 1/4" and 11/2" 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	

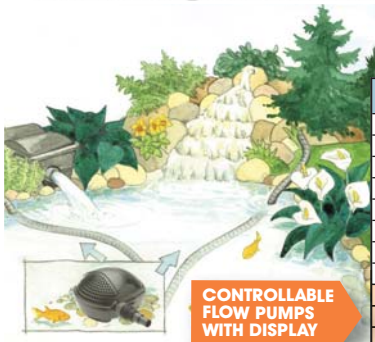
pontec
Fascinating WaterGardens

OASE 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 ¼", 1", 1¼", 1½' included
- Including thermal cut-off switch

Control Unit for Eco C Range



CONTROLLABLE FLOW PUMPS WITH DISPLAY

PONDOMAX 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	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 LIVING WATER

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 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	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 LIVING WATER

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

HOZELOCK CYPRIO

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 amphibiously**
- **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		30	2.2	
4000	4000	880	3400	748	2800	616	2300	506	1400	308	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	

Oase LIVING WATER

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

Oase LIVING WATER

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.

Oase LIVING WATER

Add life...

WHEN CAN I INTRODUCE FISH?

Please don't rush!
With the use of a suitable de-chlorinator it is possible to introduce a few fish into a pond as quickly as 48 hours after the pond has been installed. However World of Water would recommend waiting for approximately 4 weeks after the pond has been planted. This allows plants to get established and gives the fish shelter and natural nourishment. It will also allow your filter to begin to mature, helping it cope with the waste from your new pets.

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?

All ponds will vary in planting density and filtration capacity, which will affect possible stocking levels. However a good rule for initial stocking is 5cm or 2in of fish per 0.1 sq. m (l sq. ft) of surface area. This will allow the fish room to grow, and remember fish can breed quite quickly.

INTRODUCING FISH

The fish will be supplied in strong plastic bags. The fish will be quite happy in these bags for a couple of hours, but do keep them cool, quiet and shaded. See the tips on introducing fish below.

WHICH FISH ARE BEST SUITED?

As with planting a pond it's best to have a balance of fish, with bottom, mid and surface feeders all doing their own part in the pond's eco-system. Remember some fish such as koi grow very large and are unsuitable in small ponds.

WHICH ONE'S CAN I HAVE?

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.

Testing Your Water P64 & P67

TIPS ON INTRODUCING NEW FISH

Float the bag with the newly purchased fish for 30 minutes to allow them to acclimatise while ensuring the top of the bag has been rolled down and some of the pond water is splashed in. (Always keep the bag in the shade) Please ensure the top of the bag does not close up while acclimatising, as this will starve the fish of oxygen.

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.

While fish purchased at World of Water are from reputable breeders, it is essential to isolate them before introducing them into established collections.

and feed...

FEEDING YOUR FISH...

In established pools, where there is 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 a pool which is heavily stocked or lacks plant life which attracts insects, feeding is vital to the fish's well being. Feeding correctly ensures fish health, growth and ability to breed, and will allow the fish to build up enough reserves for the winter.

There are a number of different foods available, offering different protein levels, health and colour enhancer. Some of these foods are designed for winter feeding with lower protein levels containing wheatgerm, which is easily digestible, while other foods contain higher protein levels and are only suitable for summer feeding when the fish can easily digest the food.

Care should be taken not to feed summer foods in colder conditions. This can have extreme effects on the fish's health and water quality when the temperature rises.

WHEN TO FEED YOUR FISH

When the water temperature is between 5-8°C in early spring and late autumn, and if the fish appear to be searching for food, you may feed your fish on a "winter food". In these climates, feeding 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 "summer food".

Remember, any uneaten food should be removed after 5 minutes and the use of a feeding ring will make this easier. This ensures that excess food will not pollute the water as it breaks down.

Feeding Ring Thermometer

TIPS ON FEEDING YOUR FISH...

Feeding your fish is a supplement to the natural diet they will find in the pond. This supplement is vital in ensuring your fish receive the correct balanced diet.

Feeding with high protein foods in the summer can ensure sufficient reserves for the winter.

Be careful to feed the correct food for prevailing conditions.

Don't feed under 5°C (water temp).

Always remove left over food after 5 minutes. Using a feeding ring will keep the food together and hence easier to remove.

It is best to feed your fish at about the same time each day.

Over feeding will cause poor water conditions and ill health to fish. (Test water regularly).

HOZELOCK AUTOMATIC FISH FEEDER

The Automatic Fish Feeder, a clever device which can be programmed to dispense measured amounts of food at the required intervals throughout the day.

Great for holiday feeding, the Automatic Fish Feeder can be mounted on a pond wall or suspended above the pond using the supplied free-standing tubular steel gantry with ground spike.

Simple to operate via a single control which incorporates a battery-operated clock and a frequency dial which gives a choice of up to six feeds per day.

The food chamber holds up to 800ml of any kind of fish food.

HOZELOCK CYPRIO

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.

World of Water AQUATIC CENTRES

Premium

Fish Foods

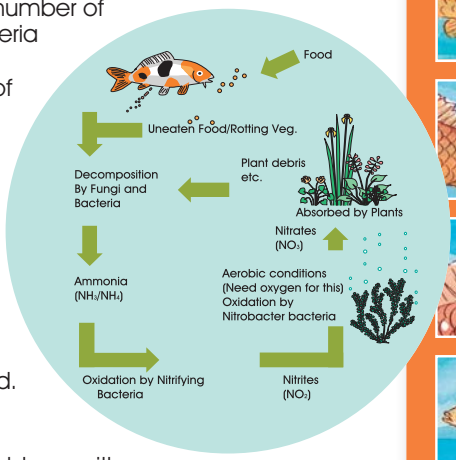
Sticks
Pellets
Flake
Wheatgerm

Health and 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 its self. 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		Recommended treatments
	Fish swimming rapidly and erratically. Visual parasites.	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 LIVING WATER

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.

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 Mircrobes 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.**

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.

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-soluable sachet of Nishikoi® Goodbye Blanket Weed into the pond or filter every week. One water-soluable 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.

HOZELOCK CYPRIO

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 PURE POND

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 PURE POND BOMB

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

Practical Fishkeeping Readers' poll WINNER POND PRODUCT OF THE YEAR

Visit 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

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

AlgoRem

Effectively combat's floating algae.

- Floating algae are bound into biologically degradable clumps that can easily removed by the filter or with a net
- Works in a matter of hours

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.

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

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_2), nitrate (NO_3), pH value and now with chlorine (CL_2)
- 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".

SCAN ME!

For more information visit **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

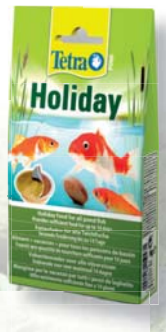
Tetra Pond Variety Sticks

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

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.



Visit **www.tetra-pond.co.uk** for seasonal care for your perfect pond.

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

WORLD BRANDING AWARDS
BRAND OF THE YEAR
FISH FOOD - GLOBAL
VIENNA 2019 -2020

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** or visit our **Facebook at Tetra UK**

THE GLOBAL LEADER IN AQUATICS

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-glugans 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

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 LTS	250ML GALS	500ML LTS	500ML GALS	1000ML LTS	1000ML GALS	USES
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
	STANDARD		SUPERVALUE		MEDIUM		
Pond Balance	6825	1500	13600	3000	41000	9000	Deals with blanket weed problems without harming fish & plants
	SMALL		LARGE				
Algaway	10740	2360	45845	10085			Answer to blanket weed, encourages plant growth, wildlfe etc
	2.27KG		9.08KG				
Pond Guardian	2250	500	9000	2000			Special formulated physiological salt with built in pH buffer
	SACHET		CARTON				
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 filtersfilters

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.

Visit The Blagdon Pond Problem Solver web site:
pondaquariumproblemsolver.co.uk

- **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 processingharmful waste excreted by fish andproduced by decomposing food andplant 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**

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 LIVING WATER

POND VACUUMS

Pondovac Classic

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 3

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.

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.*

*Not for use with chemicals

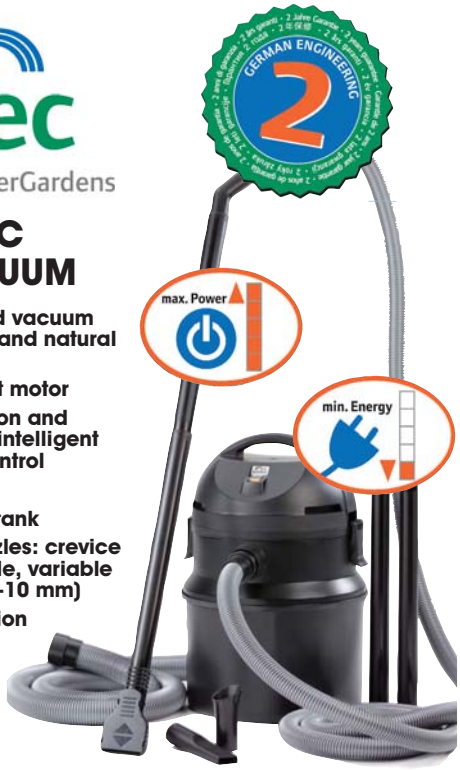
Pondovac 5

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

pontec
Fascinating WaterGardens

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

K+Media

- 1025 m² per m³ 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

evofeed
AUTOMATIC

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.

Blagdon

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

Blagdon

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

POND GLOVES

These pond gloves are perfect for keeping your hands warm and dry when you need to work on your pond or filter.

(Please note these gloves are not to be used as safety gloves)

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.

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

HOZELOCK CYPRIO

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

Blagdon

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 LT/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

Oase LIVING WATER

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 SIZE	WATTS
AquaOxy 250	250 L/H	1M	0.15 BAR	1	3M SQ	4
AquaOxy 500	500 L/H	1.4M	0.2 BAR	2	5M SQ	8
AquaOxy 1000	1000 L/H	1.6M	0.2 BAR	2	10M SQ	15
AquaOxy 2000	2000 L/H	1.6M	0.25 BAR	2	20M SQ	25
AquaOxy 4800	4800 L/H	3M	0.35 BAR	4	50 M SQ	60

pontec Fascinating WaterGardens

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	200l/h	2	4
450	450l/h	2	6
900	900l/h	4	12

pontec Fascinating WaterGardens

PondoStar POND LIGHTS

SAFE SET-UP, EVEN UNDERWATER

2 YEAR GUARANTEE

PondoStar 3

- 3 x 1.5 watt LED lights
- 12v safety transformer and 7m cable

PondoStar LED RING

Warm white LEDs for illuminating fountains

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 LIVING WATER

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

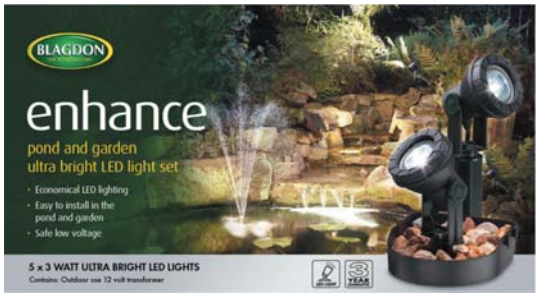
A revolutionary low-voltage light range for creating beautiful lighting effects in either the pond or garden.

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 mAH**
- **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 mAH**
- **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**

HOZELOCK CYPRIO

- **Quick and easy installation with no digging or construction skills required**
- **'Twist & Lock' system eliminates the need for tools**
- **Side viewing ports allow you to enjoy the fish**
- **A convenient and modern solution to a traditional pond; perfect for all outdoor spaces**
- **3 year guarantee**

OUTDOOR AQUARIUM

Create a stunning water feature in your garden with the NEW Hozelock Cyprio Aquarium.

This above-ground pond is a fantastic, modern solution to a traditional pond and is perfect for your decking, patio or smaller outdoor spaces.

(W) 950mm x (D) 950mm x (H) 700mm

affinity® 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

3 YEAR GUARANTEE

AUTOMATIC LED LIGHT

HEALTHY ENVIRONMENT

FILTERS

WATERFALLS

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

Auto LED LIGHTS

Resin Stone

LED Lights Built in

EASY Install

Big Range online & in store

EASYFOUNTAIN by KELKAY

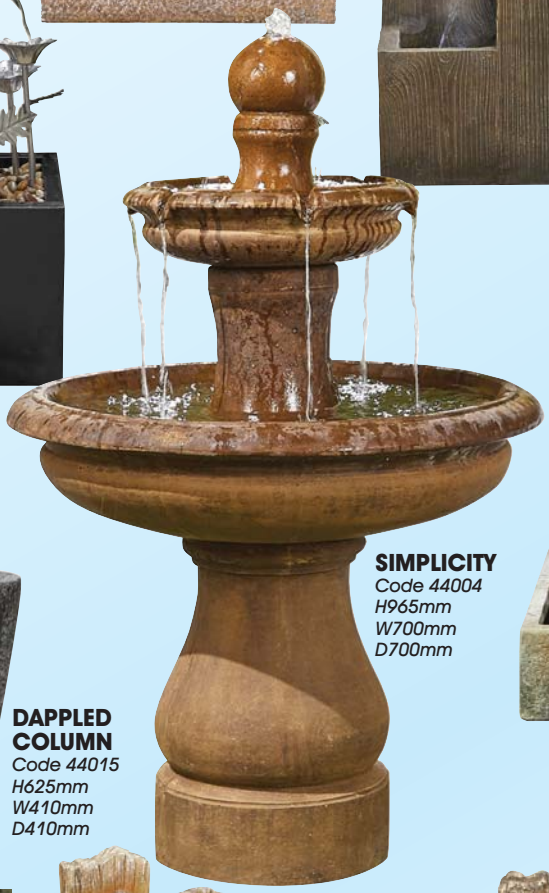
DANCING LEAVES
Code 45192
H2030mm
W350mm
D410mm

PLAYFUL MEADOW
Code 45230
H980mm, W300mm
D410mm

SPARKLING BOWLS
Code 4714L
H850mm W410mm D440mm

AZURE COLUMNS
Code 4657L
H550mm W255mm D250mm

COASTAL PILLARS
Code 45248
H500mm W260mm D200mm



SIMPLICITY
Code 44004
H965mm
W700mm
D700mm

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 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, sky lights). 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

EVOLUTION AQUA
INNOVATION IN WATER

AWARD WINNING BACTERIAL AQUARIUM PRODUCTS

Evolution Aqua's award winning bacterial product range helps to convert ammonia and nitrite, whilst improving water clarity in freshwater and saltwater aquarisms

PURE AQUARIUM BOMB

Rapidly addresses biological issues in aquariums and helps to mature new filters.

CYCLES AQUARIUMS

PURE AQUARIUM

Easy to use, live bacteria and enzymes designed specifically to help maintain crystal clear and healthy water in freshwater aquariums, voted PFK magazine's tropical product of the year!

Practical Fishkeeping Readers' poll WINNER POND PRODUCT OF THE YEAR

MAINTAINS AQUARIUMS

PURE REEF balance

Live beneficial bacteria for saltwater aquariums. Easy to use, using proven PURE technology - specifically for fish only and reef aquariums.

FOR MARINE AQUARIUMS

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 illuminates the full length of the aquarium and efficiently converts 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^2 : Plants need a source of CO^2 as fish on their own do not produce enough. Either use a CO^2 system or liquid CO^2.**

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 fulfil 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 LIVING WATER

OASE have brought German engineering to the aquarium with a cleverly designed range of internal and external filters, heaters and accessories.

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 - 200lts

- **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 300lts) 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 & 850lts 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 & 850lts 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 support 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

Oase LIVING WATER

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. 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.

Natural oak

Glossy anthracite

Glossy white

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

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

StyeLine125

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**

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

MCR LIGHTING

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

MCR LIGHTING

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

MCR LIGHTING

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

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

MCR LIGHTING

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® 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**

MCR LIGHTING

LED Lighting System

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

Interpet

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

Interpet

Aquaverse Vision LED

A fresh perspective on fishkeeping

- 5 Stage Filter
- Ultra-Slim Design
- Complete with LED Lighting
- Suitable for Coldwater or Tropical Fish

ULTRA SLIM WIDE SCREEN

KIT COMES COMPLETE WITH

5 STAGE FILTER

Complete with cartridges

- Easy to use
- Silent
- Unique Algaway pads

PREVENT ALGAE REMOVES PHOSPHATE

POWERFUL LEDS

Day & night mode

- Powerfully bright
- Reliable water-proof
- Saves money

POWERFUL LED SAVES MONEY

WATERCARE Tapsafe

- Protects Fish
- Activates your filter
- Dechlorinates your water

BIO-ACTIVATES YOUR FILTER

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

CABINET MADE IN UK

Complete Tropical Setup

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

OakStyle Urban 230

OakStyle Urban 110

CABINET MADE IN UK

Complete Tropical Setup

Aqua One®

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

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

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

FLUVAL

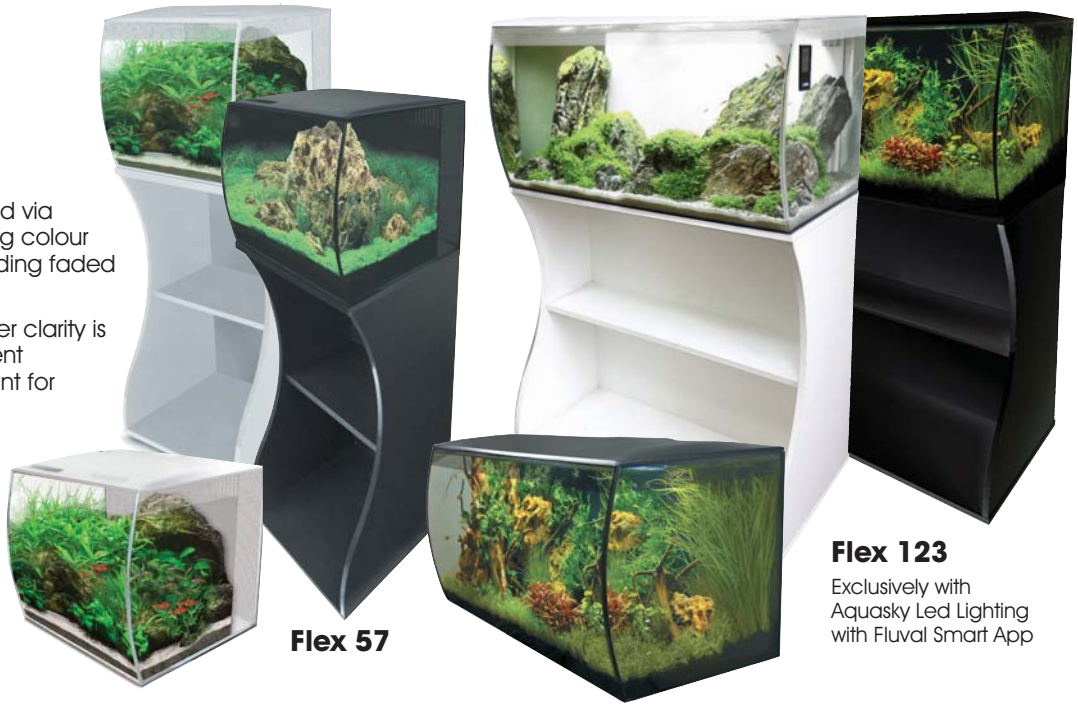
The Flex nano aquarium series with its distinctive curved front.

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®

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.

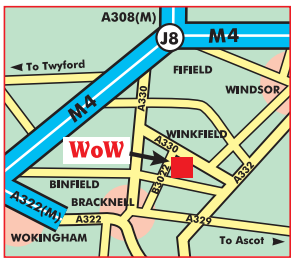
Trigon 190 aquariums turn every corner of the room into a decorative eye-catcher.

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

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.

VISIT ONE OF OUR NATIONAL STORES OR TELEPHONE OUR MAIL ORDER

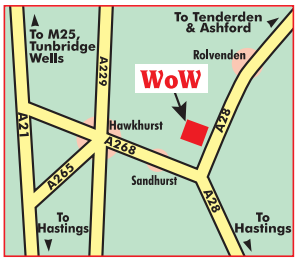
World of Water AQUATIC CENTRES



BERKSHIRE

W T M

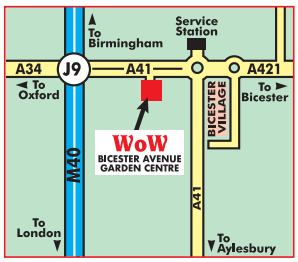
Oaktree Nursery & Garden Centre,
Brock Hill,
Bracknell Road,
Warfield,
Bracknell,
Berks RG42 6LH
Tel: **01344 890667**



KENT

W T

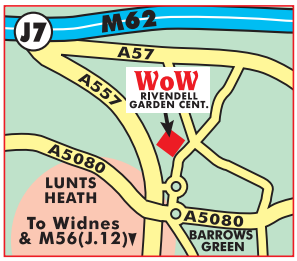
Hastings Road (A28)
Rolvenden,
Cranbrook,
Kent
TN17 4PL
Tel: **01580 241771**



OXFORDSHIRE

W T M

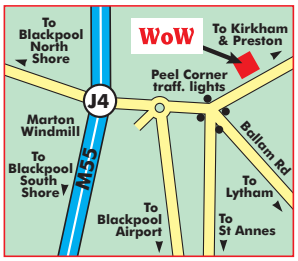
Bicester Avenue Garden Centre,
Oxford Road,
Bicester,
Oxfordshire
OX25 2NY
Tel: **01869 322489**



CHESHIRE

W T

Rivendell Garden Centre,
Mill Lane,
Widnes,
Cheshire
WA8 3UL
Tel **0151 257 7701**

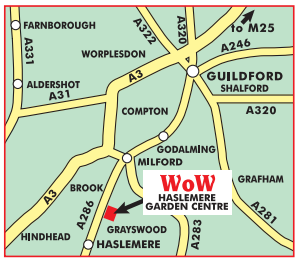


LANCASHIRE

W T R P F C

Preston New Road,
Westby,
Nr Kirkham,
Lancs PR4 3PH
Tel: **01772 684129**

For Sat Nav please use **PR4 3PE**



SURREY

W T

Haslemere Garden Centre
Haslemere Road,
Brook,
Haslemere,
Nr Godalming,
Surrey GU8 5LB
Tel: **01428 682913**

CHESHIRE

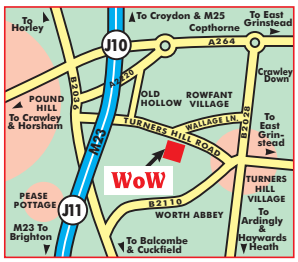
W T

Wilmslow Garden Centre,
Manchester Road,
Wilmslow
Cheshire
SK9 2JN
Tel **01625 800761**

LEICESTERSHIRE

W T M

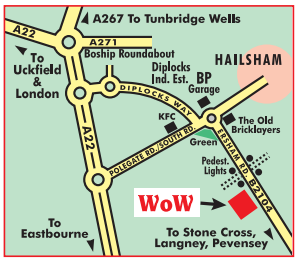
Palmers Garden Centre,
Lutterworth Rd,
Ullesthorpe,
Leics LE17 5DR
Tel: **01788 818890**



WEST SUSSEX

W T

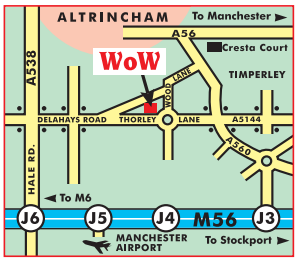
Turners Hill Road,
Worth,
Crawley,
West Sussex
RH10 4PE
Tel **01293 883237**



EAST SUSSEX

W T

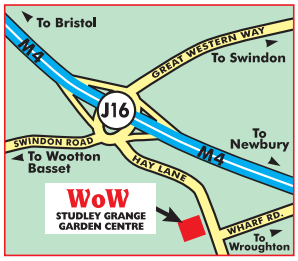
Ersham Road (B2104)
Hailsham,
E. Sussex
BN27 2RH
Tel: **01323 442400**



MANCHESTER

W T F

Thorley Lane,
Timperley,
Altrincham,
Cheshire
WA15 7PJ
Tel: **0161 903 9944**



WILTSHIRE

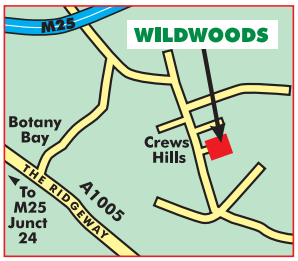
W T M

Studley Grange Garden Centre,
Hay Lane,
Swindon,
Wiltshire
SN4 9QT
Tel: **01793 853097**

GLOUCESTER-SHIRE

W T M

Highfield Garden World,
Whitminster,
Nr. Gloucester,
Gloucestershire
GL2 7PB
Tel: **01452 741414**

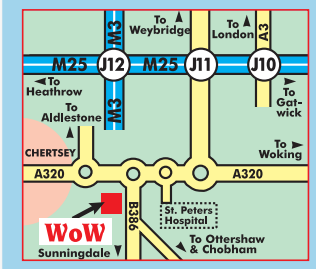


MIDDLESEX

W T M

Wildwoods,
Theobalds Park Rd,
Crews Hill,
Enfield,
Middlesex
EN2 9BP
Tel: **0208 366 0243**

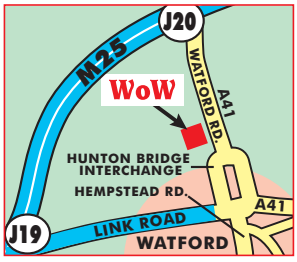
WATER GARDENING CENTRE ONLY



SURREY

W

Holloway Hill,
Chertsey,
Surrey
KT16 0AE
Tel: **01932 569690**



HERTFORDSHIRE

W T M R P F

Watford Road,
Hunton Bridge,
Kings Langley,
Nr. Watford,
Hertfordshire
WD4 8QG
Tel: **01923 270707**

NOTTINGHAM-SHIRE

W T M

Timmermans Garden Centre,
Lowdham Lane,
Woodborough,
Nr. Nottingham
Notts NG14 6DN
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KEY: W = Water Gardening T = Tropical Department M = Marine Department R = Reptiles P = Pet Supplies F = Fishing Tackle C = Camping

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