



# PERFECT PONDS MADE SIMPLE

## Your essential guide to clear and healthy ponds

### Top tips from the Hozelock Cyprio helpline

Our experts on the Hozelock Cyprio Helpline recommend the following to help you create a pond to be proud of.

- Use a special solids handling pump to get the best from your filtration system and put it on the floor of the pond.
- Keep the pump clean and weed-free at all times.
- Site the pump at the opposite end of the pond to the waterfall/filter return to get the best possible water circulation.
- Keep electrical connections in a weatherproof box with separate switches for the pump and UV Clarifier.
- Always wire electrical units via an RCD.
- Consult a qualified electrician if you are in doubt about electrical installations.
- Keep the filter and UVC easily accessible for any maintenance.
- Try to run the filtration system all year round, unless severe freezing is likely when the system should be drained and switched off.
- Dirty filters work best, only clean when absolutely necessary.
- Take a few minutes every day to visit your pond and enjoy the beautiful feature you have created.

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33833-000



# perfect ponds made simple



## You can rely on Hozelock Cyprio

With Hozelock Cyprio, quality comes first and our confidence in our products has been proven over time.

Hozelock Cyprio provides everything you need to make and decorate the pond of your choice, including liners, fountain pumps, filtration systems (for clear and healthy water), lighting and accessories.

Our continued commitment to customer care, combined with our high quality products, has made Hozelock Cyprio worldwide pond equipment experts.

## Choosing your design

Choose a design and theme that suits your pocket, your garden and the setting where you want the pond. You'll find inspiration all around you - magazines, books, TV, the internet, other people's gardens and of course, water gardening retailers.

## Formal ponds

Often rectangular and sometimes raised, formal ponds work well with paving, decking and a structured garden. A wide-walled edge to a raised pond makes an extra seat, whilst adding a fountain or ornament adds the finishing touch to your design.

## Informal ponds

Probably the easiest style for a starter project - easy to build and a forgiving shape if you happen to get the measurements wrong!

Natural ponds fit into almost any garden setting and can become a haven for wildlife such as frogs, dragonflies and birds.

## Pond features

Waterfalls and fountains, streams and stepping stones, bridges and bog gardens, there's a host of ways to enhance your pond and make it your very own water world. Once you've had the experience of building your first pond, you'll find that water gardening can become an absorbing and rewarding pastime.

Having chosen your design this guide will now take you through the steps that will enable you to install your pond and maximise your enjoyment from it.

02 - 03 Lining Your Pond

04 - 05 Pond Filtration

06 - 07 Filter Pumps

08 Gravity Filters

09 Pressurised Filters

10 - 11 Complete, Clear & Healthy Pond Solution

12 - 13 Pond Vac

14 - 15 Filtration for Serious Fishkeepers

16 - 17 UVC's

18 - 19 Fountain Pumps

20 - 21 Other Pond Essentials

22 Pond Sizing

23 Pond Maintenance

24 - 25 Filter & Pump Selection Charts



# Lining your pond

## Why you need a pond liner

All ponds need to have a lining to prevent the water from draining away.

Modern liners, whether flexible or rigid, have eliminated the need for traditional clay and concrete linings.

## Which pond liners are available

### Pre-formed

These are ready made pools in various shapes and sizes with built-in planting shelves and areas for siting submersible pumps.

### Flexible

These allow you more creativity and a more individual design enabling you to build your pond as a true 'one-off'.

## Selecting your pond liner

### Flexible

Once you know the size and shape of pond you want the size of liner needed can be calculated as follows:-

$$\begin{array}{l} \text{Maximum Length} \\ + \\ (2 \times \text{Maximum Depth}) \\ \text{by} \\ \text{Maximum Width} \\ + \\ (2 \times \text{Maximum Depth}) \end{array}$$

e.g. if the maximum length is 3m, the maximum width is 2m and the maximum depth is 1m:  
 $3 + (2 \times 1)$  by  $2 + (2 \times 1)$

So, you will need a liner 5m by 4m minimum. Allow a 150mm overlap around the edge for anchoring.

Hozelock Cyprio offers a comprehensive selection of liner sizes.



## Flexible Liner



- 1 Mark out the pond shape. Dig the sides at a slight slope. Check top is level



- 2 Remove sharp objects and protect liner with a layer of sand



- 3 Anchor liner with smooth rocks. Start to fill with water. Adjust anchors as liner fills. Tuck creases to keep liner tidy



- 4 Lay edging stones to complete the appearance

## Pre-formed Liner - within the ground



- 1 Mark shape of the pond using stakes. Dig hole to contours of the pond



- 2 Place pond in hole and back fill around edges

## Pre-formed Liner - above the ground

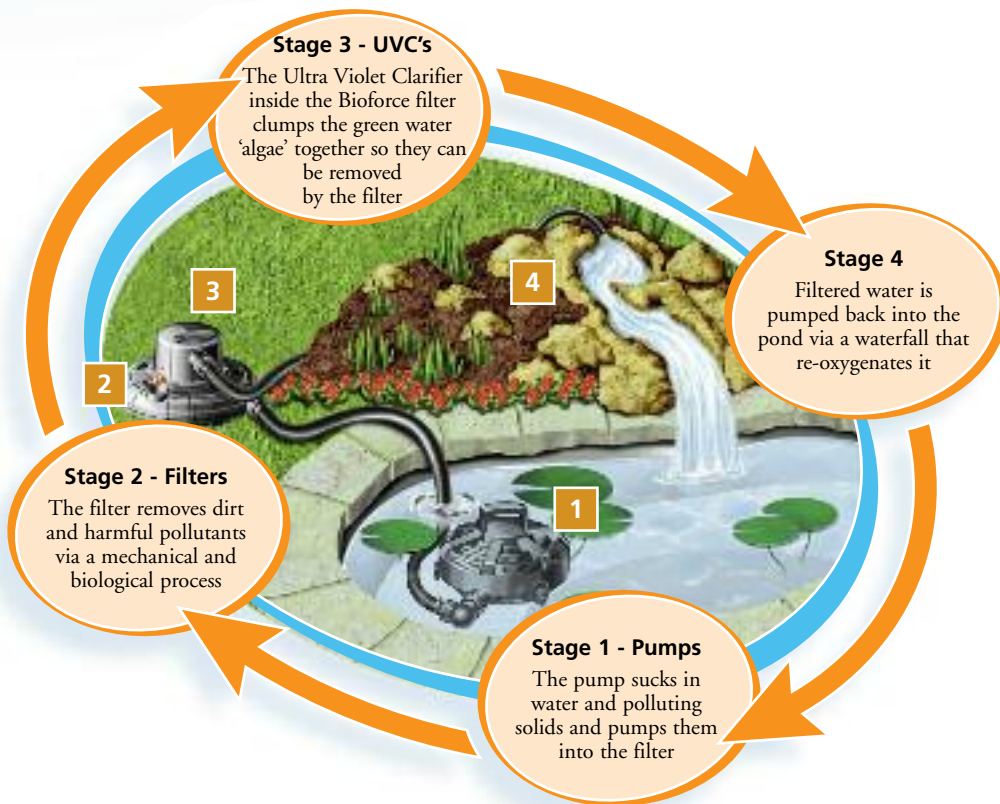


- 1 Place pond on concrete raft. Build a low wall. Fill gaps under pond with ballast



# Pond filtration

## How a filtration system keeps your pond naturally clear and healthy



A pond is a complete, miniature eco-system. Problems occur if any of its components get out of balance. Modern filtration systems use a natural, chemical free process to create a healthy balance in the pond so that the fish and wildlife can enjoy a clean habitat, plants thrive and the whole feature is pleasant to look at.

### Sunlight

Healthy aquatic plants need sunlight, but too much sunshine speeds up growth of pond algae which create 'green water', the aquatic equivalent of pea soup! Choose an open site for your pond, making sure you have around half the pond shaded with floating and deep water plants such as water lilies.

### Water

Clear, bright water is a sign of a healthy, well maintained pond. The water should be pH neutral (pH 6.5 - 7.5). A deep pond, at least 18" will be less affected by changes in temperature.

### Pondlife

We keep more fish in our garden ponds than would usually live in a natural pond. The concentration of their waste products, together with uneaten food will pollute the water unless removed quickly. Over time, this polluted water will damage fish health.

### Oxygen

Stagnant water lacks oxygen which is essential for healthy plants and fish so you need to keep the water circulating. Fish and pondlife consume oxygen and release carbon dioxide which is absorbed by under-water plants that release oxygen back into the water.

### Plants

Plants are essential decoration for any pond and a vital part of the eco-system too. They absorb harmful carbon dioxide and release oxygen into the water, shade the pond from sunlight and provide shelter for pondlife. However, decaying plant matter releases poisonous methane into the water and must be removed.



# Filter pumps

## Choosing your filter pump

The pump is the heart of the process. It must be tough, reliable and able to pump dirty water and solids continuously, without clogging.

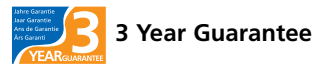


## Titan pumps



Titan Filter and Waterfall pumps are designed for handling solids and continuous running with minimum maintenance thanks to an anti-clog cage and tool free access.

Advances in pump technology have added several unique features



**Solids Handling System**  
which extracts solids up to Ø10mm

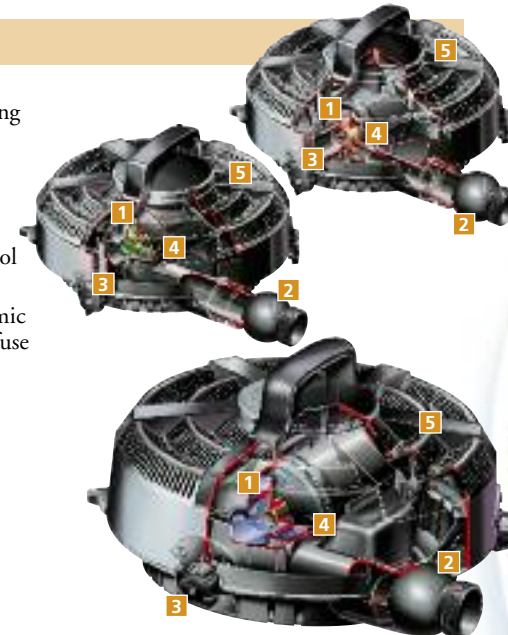


**Thermal Resettable Fuse**  
For greater reliability a Thermal Resettable Fuse prevents motor damage



## Titan pumps

- 1 Solids Handling System - handles solids without blocking
- 2 Ball joint enables easy positioning of hose from the pump outlet
- 3 Extra secure locking latches hold cage closed and allow tool free access to pump
- 4 Ultra durable - includes ceramic wearing parts, PTC thermal fuse and dual shock absorbers
- 5 Low profile for extra stability and use in shallow water



	Max Flow	Max Head	Flow @ 1m	Solids Handling Range	Waterfall width @ 0.6m	Waterfall width @ 1m	Hose Diameter
2000	2000LPH (440GPH)	1.60m (63")	1100LPH (250GPH)	0 - 4 mm	0.10m (4")	0.08m (3")	20-40 mm
3000	3000LPH (660GPH)	2.30m (90")	2200LPH (500GPH)	0 - 4 mm	0.18m (7")	0.15m (6")	20-40 mm
5500	5500LPH (1210GPH)	3.80m (150")	4500LPH (1000GPH)	0 - 8 mm	0.36m (14")	0.29m (12")	20-40 mm
8000	8000LPH (1500GPH)	4.00m (158")	6800LPH (1500GPH)	0 - 8 mm	0.48m (19")	0.38m (15")	20-40 mm
12000	12000LPH (2600GPH)	4.00m (158")	9000LPH (2000GPH)	0 - 10 mm	0.99m (38")	0.83m (31")	20-40 mm
15000	15000LPH (3300GPH)	4.20m (165")	11000LPH (2400GPH)	0 - 10 mm	1.23m (48")	1.07m (41")	20-40 mm

## PrimaXL pumps

High pressure, solids handling pumps that process solids up to 10mm in diameter and pump high volumes of contaminated water for larger filter systems. Their capabilities make them ideal for Koi ponds.



	Max Flow	Max Head	Flow @ 1m	Solids Handling Range	Hose Diameter
3200XL	4000LPH (880GPH)	4.0m (157")	3200LPH (706GPH)	0 - 8 mm	20-40 mm
5000XL	6000LPH (1320GPH)	5.0m (197")	5000LPH (1100GPH)	0 - 8 mm	20-40 mm
6000XL	8000LPH (1760GPH)	6.0m (236")	6250LPH (1375GPH)	0 - 8 mm	20-40 mm
9000XL	9600LPH (2112GPH)	7.5m (295")	9000LPH (1947GPH)	0 - 10 mm	20-40 mm
15000XL	15600LPH (3432GPH)	9.6m (378")	15000LPH (3286GPH)	0 - 10 mm	20-40 mm

# Compact filtration



## Non pressurised filters

Ecopower+ filters make water healthy and guarantee clearwater but do not carry the benefits of the Bioforce pressurised system.

### Ecocel

For ponds up to 10000 litres (2200 gals)

Full mechanical and biological filtration

- 1 Water enters filter
- 2 Sprayhead distributes water over foam
- 3 Foam sieves out solids
- 4 Bacteria on biomedica cleanse pollutants
- 5 Clean and healthy water returns to the pond

### Ecopower+

For ponds up to 10000 litres (2200 gals)

Fast acting all-in-one pond filter for guaranteed clearwater in fish ponds

- 1 High efficiency ultra violet clarifier with in-built 'turbulator' action for thorough exposure of water to UV light
- 2 Venturi aerates water for efficient biological filtration
- 3 High outlet allows partial burying of filter to hide it
- 4 Drain for easy removal of waste matter
- 5 Viewing hatch to check correct functioning of filter
- 6 Handles for easy lifting

## Pressurised filters

### Bioforce

For ponds up to 12000 litres (2640 gals)






High efficiency, pressurised filters that can be hidden by burying up to the lid. Under pressure, water leaving the filter can run up to the top of a waterfall.

#### HIGH PERFORMANCE

- 1 Advanced Kaldnes™ biomedica is scientifically proven and provides improved biological filtration for healthier fish and plants.
- 2 UVC with water turbulator efficiently eliminates green water for a clear pond. A unique viewing point allows easy and safe checking that the UV lamp is on

#### LOW MAINTENANCE

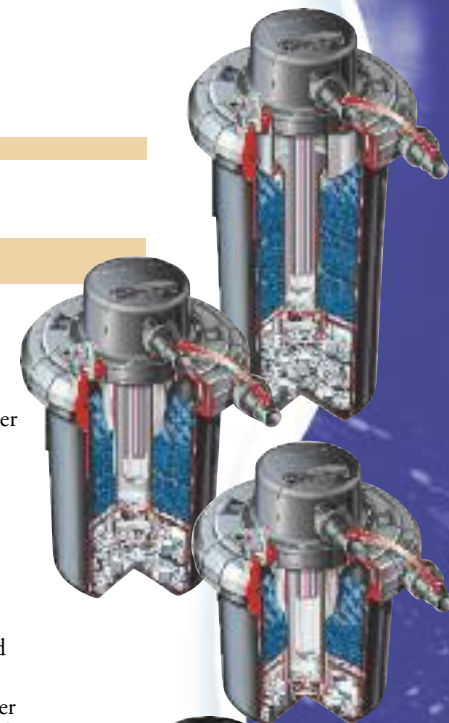
- 3 "Through flow" filter foams effectively remove cloudy particles and reduce the cleaning frequency. The foam layers make thorough foam cleaning easier.
- 4 Easy 'backflush' cleaning reduces time and effort needed for filter maintenance by extending the time between thorough foam cleaning.

			
Bioforce 3000UVC	6000L	4500L	3000L
Bioforce 5500UVC	11000L	8250L	5500L
Bioforce 8000UVC	16000L	12000L	8000L
Bioforce 12000UVC	24000L	18000L	12000L

	Max Litres (Max Gals)	Max Fish cm (Max ins.)	Max Flow	UVC	Hose Diameter
3000UVC	3000LTR (660GALS)	180 cm (5'11")	1500LPH (330GPH)	5w	20 - 25mm
5500UVC	5500LTR (1210GALS)	300cm (9'06")	2500LPH (550GPH)	9w	20 - 25mm
8000UVC	8000LTR (1760GALS)	480cm (15'09")	4000LPH (880GPH)	11w	20 - 25mm
12000UVC	12000LTR (2640GALS)	720cm (23'07")	6000LPH (1320GPH)	13w	25 - 40mm

**KALDNES**

Kaldnes™ is a highly advanced and scientifically proven biomedica providing exceptional water purity



Clearwater  
GUARANTEE

HOZELOCK  
CYPRIOT 09

# EasyClear™ - The complete clear & healthy pond solution

## The award winning fully integrated filtration system

The EasyClear range comprises three units for ponds up to 3000, 6000 and 9000 ltrs. These fully integrated units combine a pump, filter and UVC and can be completely hidden in the pond. They provide clear and healthy water, easy installation and an attractive fountain and/or waterfall.



### Clear water Guaranteed

Ensure that the EasyClear™ is correctly sized for your pond according to the Hozelock Cyprio guidelines and we guarantee you clearwater.



## EasyClear Benefits:

### 1 Clear water

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

### 2 Healthy Water

- Kaldnes™ biomedica ensures that the water is healthy for fish and plants.
- The Kaldnes™ biomedica is stored under the foams in gauze bags for quick and easy cleaning.

### 3 Fountain & Waterfall

- Reliable and attractive fountain and waterfall display. (EasyClear 6000 & 9000 can run a fountain and waterfall simultaneously. EasyClear 3000 can run a fountain or waterfall)

- 3 fountainhead options for different display choices.

### 4 Easy Installation

- One power cable for simple and cost effective installation.
- Ball joint for easily levelling of the fountainhead.
- Feet for stability.

- Fountain stem extension for varying pond depths.
- Independent flow control to adjust the size of the fountain.
- Independent flow control to adjust the size of the waterfall.

### 5 Easy Maintenance

- Latch for tool free access for cleaning foams and Kaldnes™ biomedica.
- Anti-clog fountain strainer for low maintenance.
- Bayonet fitting for easy access to the UVC cleaning and changing.
- Water bypass allows continued UVC and fountain operation if foam is blocked.

EasyClear 3000	3000L	2500L	2000L
EasyClear 6000	6000L	5000L	4000L
EasyClear 9000	9000L	7500L	6000L



## EasyClear™ Performance Data

Model	Max Fountain Height	Bell Jet Diameter	Waterfall Width	Max Litres (Max Gallons)	Max Fish CM (Inches)
3000	0.70 m (2' 03")	0.40 m (1' 04")	0.08 m (0' 03")	3000LTR (660GALS)	0.72 m (2' 04")
6000	1.60 m (5' 03")	0.60 m (2' 00")	0.13 m (0' 05")	6000LTR (1320GALS)	1.44 m (4' 08")
9000	1.90 m (6' 02")	0.70 m (2' 03")	0.25 m (0' 10")	9000LTR (1980GALS)	2.16 m (7' 08")

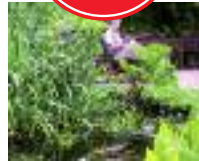
# Cleaning a pond efficiently

## Pond-vac

### Saves up to 30% in cleaning time

Unlike most other Pond Vacs, this product runs continuously and does not have to stop every minute for the collection chamber to be emptied.

**-30%\***  
UP TO 30%  
TIME  
SAVING



**+50%\***  
UP TO 50%  
EXTRA  
SUCTION

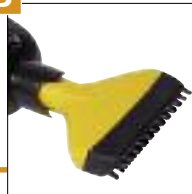


### Up to 50% greater suction

The highly efficient design delivers greater suction than other products available. The combination of high suction and low power consumption makes the Pond Vac up to 7 times more efficient and minimises running costs.

Supplied with a choice of three brightly coloured nozzles for clear in-pond visibility, the Pond Vac is capable of removing particles from all areas of the pond. Cutter blades are built into the head assembly so that any large debris such as leaves passing through can be chopped up to avoid blockage.

The connector joining the waste hose to the handle is transparent and provides a visible check on the amount of debris being removed. Additional lengths of aluminium tubing can be added for particularly deep ponds and extra waste hose can be connected using standard hose couplings. All water and toxic waste is removed from the pond to ensure that no harmful pollutants are returned.



- A** Extendable up to 2.0m (4 x 0.4m sections) for long reach
- B** Three suction nozzles: 'wide' for large areas, 'narrow' for small corners & 'open' for large waste.
  - nozzle storage point provided
- C** Chopping blades allow removal of large waste matter
- D** Transparent section for viewing waste disposal
- E** Adjustable handle position for comfortable use

Pump Rating	Suction Power	Cable Length	Product Length	Waste Hose Length (25mm Ø)
60W	-53 mBAR	10M	2.3M	3M

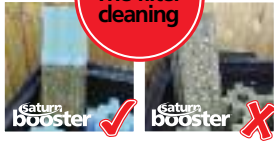
\* Maximum difference compared to other pond vacuums available

# Filtration for serious fishkeepers



**saturn  
booster™**

**1/2**  
The filter  
cleaning



• 1/2 the filter cleaning  
= 1/2 the effort  
= +100% life of existing  
filter foams

**+30%**  
Water  
purity



• +30% extra water purity  
= higher fish stocking  
= healthier fish

Max Flow Rate (through filter)	Min Flow Rate (through filter)	Watts	Cable Length	Product Dimensions (mm)
8000LPH	3000LPH	110w	10m	730 x 495 x 495

## Saturn Booster

### What is Saturn Booster?

- Unique, auto-cleaning mechanical pre-filter.
- Boosts the performance of an existing filter system.
- The effectiveness of an existing filter is increased by the Booster removing most of the solid waste in the pond water before it enters it.
- The Booster incorporates unique auto-cleaning technology with a backwashing screen. This means that it will carry on being effective with the minimum of maintenance required.

- 1 Dirty water is pumped into the Booster
- 2 Particles are trapped by the gauze filter as water passes through it
- 3 A rotating jet spray, located inside the filter, constantly cleans the gauze from the inside
- 4 The particles, washed off the gauze by the rotating jet, collect at the bottom of the unit
- 5 Clean water passes through to the existing filter
- 6 To remove waste, simply pull the ergonomic flush-away handle without getting wet or dirty hands
- 7 Innovative self-regulating pressure sensitive valves allow the filter to continue operating even in the harshest pond environments

Fits onto nearly all pump fed filter systems



## How does the Booster work?

The Booster is a high-tech product but requires little effort to maintain once it is installed because of its unique auto-cleaning function, its ability to self-regulate in the harshest pond conditions, and ease of cleaning.

### Auto-Cleaning

The Booster incorporates a back washing jet which constantly cleans down the fine mesh gauze which separates out the solid waste in the pond water before it passes into the existing filter.

### Self-Regulating

A valve is built-in which detects if the gauze is getting blocked because of a high level of waste in the water. This valve bypasses the flow of the water around the gauze until the backwashing jet has cleaned the gauze down. Once the gauze is clean the valve re-sets and normal flow through the Booster is resumed.

### Waste Disposal

To empty the unit of waste, simply lift a handle on the side and flush it out to the desired disposal point without getting wet or dirty hands.



# Clearwater guaranteed

## Ultra violet clarifiers for guaranteed clearwater

Ultra violet clarifiers (UVCs) are the key element in the unique Hozelock Cyprio clearwater guarantee.

Quite simply, if you purchase a UVC with a Hozelock Cyprio pond filter that is correctly sized for your pond\*, then you are guaranteed clear water, or your money back.

\*Subject to certain terms and conditions  
-see page 26 for helpline details.

## What causes greenwater

In certain conditions, large quantities of microscopic algae grow in the water. They create the green water, that spoils the pleasure of a pond by making it impossible to see plants and fish.

It's important not to confuse 'green water' with the long strands of blanket weed that are also very common. Green water algae are so tiny that ordinary filters cannot trap them.

## How do UVCs work

As the pond water passes the UV lamp, the light makes the algae clump together so they are caught in the filter foam or sink to the bottom of the pond. You should see an improvement in days and achieve complete clarity in 3 to 4 weeks.

## Why are Hozelock Cyprio UVCs so effective?

- Water is slowed down as it passes the lamp to increase UV penetration.
- Quartz glass tube covering the UV lamp permits effective penetration of UV rays. Ordinary glass cuts this by 90%
- UV lamp runs at optimum operating temperature in an enclosed chamber
- Water is kept as close as possible to the UV lamp to maximise the UV efficiency
- Single ended lamps last longer and have higher UV output



## Integrated UVCs



Hozelock Cyprio offers a variety of filters with built in UV clarifiers. Bioforce UVC units guarantee clearwater and are pressurised, enabling the product to be hidden in the ground and water leaving the filter can be run up to the top of a waterfall.

Ecopower+ filters are fast acting and are particularly suitable for fish ponds.

EasyClear clearwater fountain and waterfall pumps are positioned in the pond but include a UVC.

## Separate UVCs



A separate UVC can be connected into the hose run between the pump and filter.

On Hozelock Cyprio Trinamic filters, the UVC can be fitted on the side of the filter using the metal attachment bracket.

For very large ponds a tandem conversion kit for two UVCs is available.

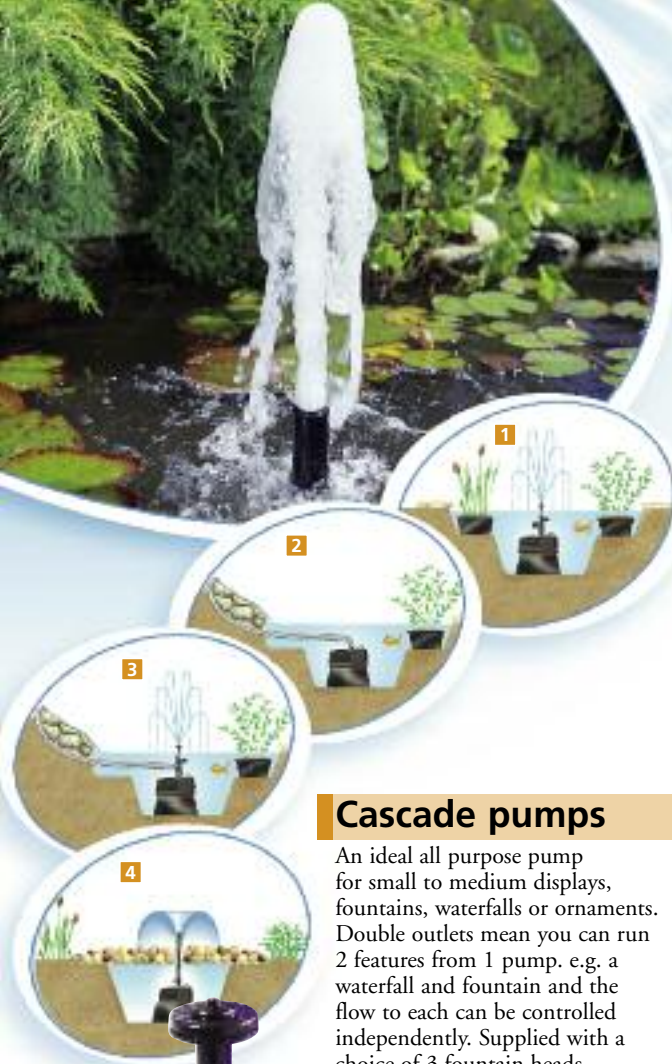


	Wattage	Max Pond Size	Recommended Flow	Hose Diameter
4500	9 W	4500L (1000G)	2200LPH (500GPH)	20 - 40 mm
14000	11 W	14000L (3000G)	7000LPH (1500GPH)	20 - 40 mm
27000	2 x 11 W	27000L (6000G)	13500LPH (3000GPH)	20 - 40 mm

# Simply splashing

## Creating special effects with pumps

The sight and sound of moving water enhances any pond. Creating that movement in a fountain, waterfall or ornament is simple, because the latest Cascade pumps are easier to use, more reliable and give you end results to be proud of.



## Cascade pumps

An ideal all purpose pump for small to medium displays, fountains, waterfalls or ornaments. Double outlets mean you can run 2 features from 1 pump. e.g. a waterfall and fountain and the flow to each can be controlled independently. Supplied with a choice of 3 fountain heads

## Installing your pump

### 1 Fountain

Position the pump off the bottom of the pond with the fountain head above the water level

### 2 Waterfall

Attach a hose to the pump outlet, run it to the top of the waterfall and secure in place

### 3 Combined fountain & waterfall

Install the pump as if for a fountain and attach a hose to the tee piece supplied and run it up to the waterfall

### 4 Water Feature

Hozelock Cyprio pumps sit comfortably in the reservoir of small, self-contained water features

## Choosing the model for you

To choose precisely the right model for your display, you need to know

- How much water your pond holds
- How high you want to pump the water for a waterfall or fountain
- The flow rate per hour that will give you the effect you want. This should never be more than half the volume of water in your pond

Full performance details on every pump are on page 25



Here are some of the technological innovations that mean we guarantee our pumps for 3 years, continuous running



### ACS Anti Clog System

Foamless pre-filters for less regular and easier cleaning and maintenance



### OMC Optimised Magnetic Coupling

Motors with 50% more torque for better performance

## Installation tips

- Use a pump stand to avoid sucking up excess silt from the bottom of the pond
- Use wider diameter hose and keep hose runs short and straight for maximum flow
- Avoid windy sites with high fountains to minimise water loss
- Follow installation instructions carefully and consult a qualified electrician if in any doubt
- Always use an RCD (Residual Current Device) for safety

# Decorating your pond

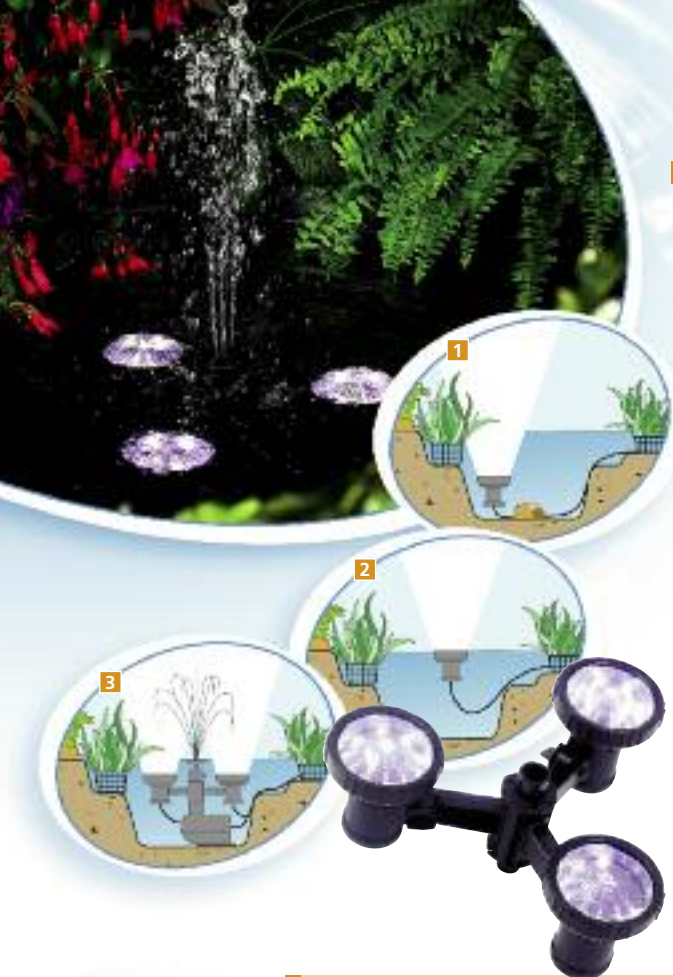
## LED Pond Lights

In or out of the pond lighting adds an extra dimension to your garden, making it an attractive feature at night time as well as in the day.

Low voltage lighting is particularly easy and quick to install, with simple tool free connections. Hozelock Cyprio's 3 Lamp LED Set can be attached to the stem of a Hozelock Cyprio pump or individual lights can float or be submerged in the pond.

- 1** Submerge with weights
- 2** Float on surface of pond
- 3** Attach to pump

LED (Light Emitting Diode) lights are becoming increasingly fashionable in home and garden design. They emit a very powerful distinctive clear and direct light to illuminate the pond or fountain and the running cost is extremely low.



## Planting ideas

Plants are essential for a pond, not just for the way it looks, but also to keep it oxygenated. There are three main types of pond plant - ask for advice at your local aquatics centre because some are too vigorous for small ponds.

Most pond plants need special planting baskets. Hozelock Cyprio

baskets have a fine mesh to prevent soil escaping so you don't need a hessian lining.



Type of plant	Suggested Varieties
Oxygenators help with water quality	Elodea crispata
Marginals stand in shallow water at the edge	Iris varieties, Bowles Golden Sedge, typha latifolia (small bullrush)
Deep water plants for the middle of the pond	Small water lilies such as nymphaea foebelii, nymphaea 'James Brydon'



## The ideal fish pond

Whether a common goldfish or a speciality Koi, all fish need clear healthy and well oxygenated water. The pond should provide plenty of shelter from potential predators and shade from the sun.

Koi in particular need deep ponds (at least 1.0m) with crystal clear water. They also produce more waste than other breeds so a substantial filtration system will be needed. They feed at all levels and eat not only plants, but small invertebrates as well.

## Top tips for stocking your pond with fish

- Introduce fish in late spring as water temperature reaches around 10°C
- To ensure healthy fish, buy from a reputable supplier where fish are well kept
- Fish up to 15cms (6") will get used to their new home more quickly than bigger fish
- A 15cm (6") fish needs pond space of approximately 40cms x 40cms (18" x 18"). Use this formula to calculate the best stocking level for your pond, but allow growing room
- Choose lively, sturdy fish with bright eyes and perfect fins

## Air Pumps

Adding oxygen into a fishpond is very important for fish health, particularly in densely stocked ponds and in the summer months when oxygen levels decline. Fish will become visibly more active in an oxygen-rich pond.

The Hozelock Cyprio air pumps delivers a maximum air output of 45 or 75 litres per minute, which is suitable for the vast majority of fish and Koi ponds.



## Fish food

Easily digested and containing top quality protein, Hozelock Cyprio Nutri-Stik and Nutri-Flake foods float well and do not cloud water.

Hozelock Nutri-Koi is specially formulated for Koi fish. It contains high protein levels to promote growth and vitamins and minerals to enhance the colour of the Koi. It is highly digestible, has good wetting properties and will not cloud the water.



# Pond maintenance

## Pond sizing

### Step 1 How to measure your pond correctly

Calculate the size of your pond using the following formula:-

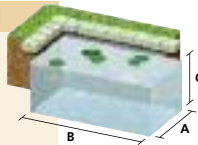
$$\text{Average Length (m)} \times \text{Average Depth (m)} \times \text{Average Width (m)} = \text{m}^3$$

$$\text{m}^3 \times 1000 = \text{Litres}$$

#### Calculate how much water a rectangular shaped pond will hold

$$A \text{ metres} \times B \text{ metres} \times C \text{ metres} = \text{Volume m}^3$$

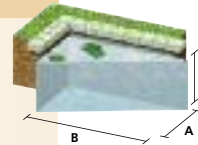
$$\text{Volume m}^3 \times 1000 = \text{Litres Capacity}$$



#### Calculate how much water a triangular shaped pond will hold

$$(A \text{ metres} \times B \text{ metres} \times C \text{ metres}) \div 2 = \text{Volume m}^3$$

$$\text{Volume m}^3 \times 1000 = \text{Litres Capacity}$$

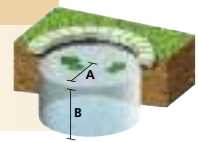


#### Calculate how much water a circular shaped pond will hold

$$A \text{ metres} \times A \text{ metres} \times 3.14 = \text{Surface Area in m}^2$$

$$\text{Surface Area in m}^2 \times B \text{ metres} = \text{Volume m}^3$$

$$\text{Volume m}^3 \times 1000 = \text{Litres Capacity}$$



### Step 2

#### Additional factors to consider

If the average depth of your pond is less than 0.7m (2'4") and/or in full sunlight, you may need a bigger system

#### Depth less than 0.7m OR in full sunlight

##### ADD 25% to Pond Capacity

$$\text{Capacity Example: Pond Capacity } 1000 \text{ litres} \times 1.25 = 1250$$

$$\text{Effective Pond Capacity} = 1250 \text{ litres}$$

#### Depth less than 0.7m AND in full sunlight

##### ADD 50% to Pond Capacity

$$\text{Capacity Example: Pond Capacity } 1000 \text{ litres} \times 1.50 = 1500$$

$$\text{Effective Pond Capacity} = 1500 \text{ litres}$$

### Pond treatments and test kits

Despite all your care and attention, there will be times when you need to adjust the water quality for the benefit of the fish and plants.

All Hozelock Cyprio pond treatments are harmless to pondlife and complement the range of pumps and clearwater systems to ensure your pond stays clear and healthy.

#### Sludge Remover

to reduce filter maintenance

#### Green Water Treatment

helps clump together the algae for more efficient removal

#### Tap Water Conditioner

neutralises chlorine usually found in tap water

#### Pond Stabiliser

controls blanket weed

#### Blanketweed Treatment

treats the scourge of many pond keepers

#### Water Feature Treatment

for keeping enclosed features free of algae and slime

### Pond care through the seasons

Spring	
Water	Clean out pond
Plants	Divide overgrown plants and replant
Fish	Start feeding gradually as fish liven up
Pump, filter & UVC	Check for wear and tear and replace parts if required. Filter system should be working before fish feeding commences

Summer	
Water	Change approx 10% of water once a month
Plants	Enjoy the show
Fish	Ensure water well oxygenated. Check for small fry
Pump, filter & UVC	Clean regularly

Autumn	
Water	Clear away fallen leaves
Plants	Cut back dead material
Fish	Gradually reduce feeding
Pump, filter & UVC	Prepare for switch off* as weather deteriorates

Winter	
Water	Prevent from freezing completely
Plants	Protect tender plants from frost
Fish	Do not feed when temperature is below 10°C
Pump, filter & UVC	If severe freezing likely, switch off, drain, clean and store indoors*

\* Continued filtration is not necessary if fish are not feeding but it can prevent the pond from freezing



# Filter & pump selection charts



	Max		Max Fish		Recommended			
	Litres	Gallons	CM	Inches	Filter*	UVC**	Pump	Hose***
In Pond Filters	3000	660	72	2' 04"	EasyClear™ 3000	Included	Included	25mm (1")
	6000	1320	144	4' 08"	EasyClear™ 6000	Included	Included	25mm (1")
	9000	1980	216	7' 08"	EasyClear™ 9000	Included	Included	25mm (1")
Pressurised Filters inc. UVC	3000	660	150	5' 00"	Bioforce 3000 uvc	Included	Titan 2000	25mm (1")
	5500	1210	275	9' 00"	Bioforce 5500 uvc	Included	Titan 3000	25mm (1")
	8000	1760	400	13' 01"	Bioforce 8000 uvc	Included	Titan 5500	40mm (1½")
	12000	2640	600	19' 06"	Bioforce 12000 uvc	Included	Titan 8000	40mm (1½")
Non-Pressurised Filters inc. UVC	2500	500	107	3' 06"	Ecopower+ 2500	Included	Titan 2000	25mm (1")
	5000	1000	212	6' 10"	Ecopower+ 5000	Included	Titan 3000	25mm (1")
	10000	2000	435	14' 03"	Ecopower+ 10000	Included	Titan 5500	40mm (1½")
Non-Pressurised Filters	2500	1250	79	2' 08"	Ecocel 2500	Vorton 4500	Titan 2000	25mm (1")
	5000	2500	157	5' 05"	Ecocel 5000	Vorton 4500	Titan 3000	25mm (1")
	10000	5000	322	10' 10"	Ecocel 10000	Vorton 14000	Titan 5500	40mm (1½")

\* Fish stocking level not more than 55cm per 1000 litres of pond volume (100" per 1000 gallons). Assumes fish at an average of 150mm (6") each.

\*\* Where a choice of UVC is given, the larger model will result in more consistent clarity.

\*\*\* For guidance only. Actual flow varies according to length of hose, keep runs as short as possible.

Feature	Pond Size				Technical Data															
	0 - 2200 Litres	2200 - 4500 Litres	4500 - 9000 Litres	9000 - 13000 Litres	0 - 500 Gals	500 - 1000 Gals	1000 - 2000 Gals	2000 - 3000 Gals	Max Flow Rate (LPH)	Flow Rate at 1.0m (LPH)	Max Head (M)	Max Fountain Height (M)	Number of Fountain Heads	Hose Adaptors - Outlet	Telescopic Extension Pipe	Shaft - Steel (S) or Ceramic (C)	Cable Length (M)	Guarantee (Years)	Motor Rating (W)	
Indoor Feature																				
Outdoor Feature																				
Fountain																				
Waterfall																				
Fountain & Waterfall																				
<b>Cascade</b>																				
450									450	-	1.0	0.63	2			S	10	3	10	
700									700	120	1.2	0.75	3			S	10	3	13	
1500									1500	900	1.8	1.20	3			S	10	3	33	
4000									4000	2800	2.1	1.60	3			C	10	3	40	

