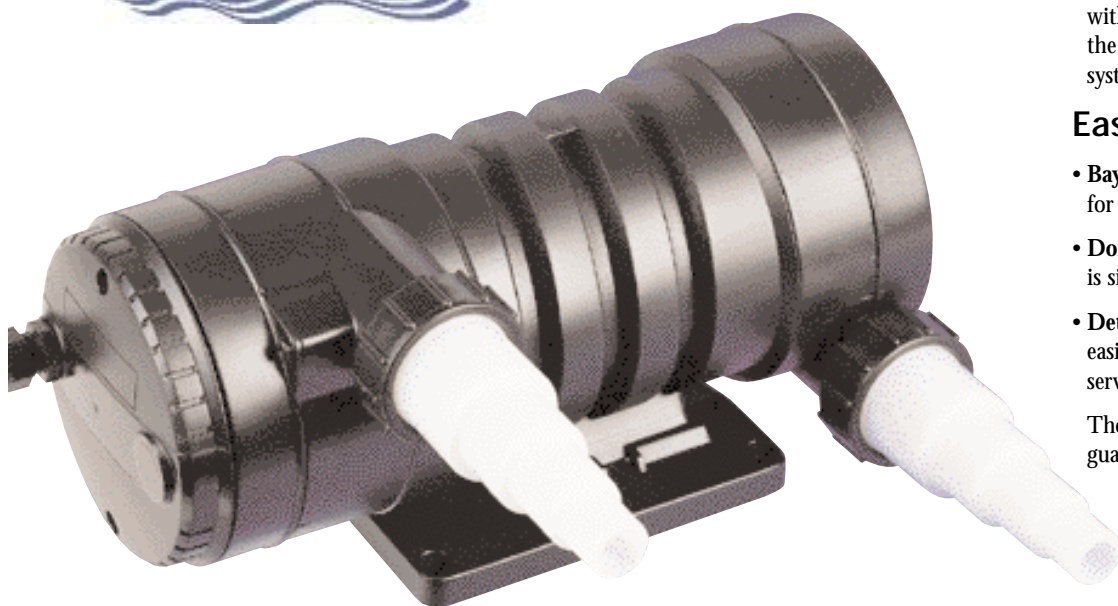


# vorton™ ultra violet clarifiers

A revolution  
in the efficient  
elimination of green  
water algae



The Ultra Violet Clarifier (UVC) continues to form a key element of a clearwater system. The algae, causing greenwater, are made to clump together (flocclulate) by the UV light so that they can be sieved out of the water by a filter. The introduction of the Vorton range has revolutionised UVCs with a list of features making them superior in performance, simple to install and extremely easy to clean and maintain.



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## Superior Performance

The new Vorton UVCs are up to 50% more efficient than many Ultra Violet Clarifiers on the market.

- **In-built "Turbulator"** - The flow of the water through the UVC, created by the product design, increases the units efficiency by even exposure of the water to the UV light and eliminate the possibility of air locks.

- **Single ended UV lamp** - The lamp design means 30% more UV light is emitted than a double ended lamp of the same wattage. These lamps also stay efficient up to 60% longer than double ended lamps, which means the lamp usually only has to be changed once a season.

- **Quartz tube** - Quartz allows 87% of the UV rays to pass through it and penetrate the water where it can act on the algae. Materials used in many other UVC units on the market such as plain glass and plastic only allow 30% and 50% of UV rays to pass through them respectively.

- **Operating temperature** - Careful product design ensures the UV lamps are kept within their optimum operating temperature range, which means that they are always working at their most efficient.

## Simple to install

- **Multi-directional inlet/outlet** - Being able to rotate the inlet and outlet through up to 360° makes it much easier to route the hose to and from the unit.

- **Quick connect hose connections** - Joining up the pipework is simple, aiding installation and disconnection for cleaning and maintenance.

- **Translucent stepped hosetails** - The UV light causes the hosetails to glow clearly indicating when the lamp is operating.

The steps in the hosetails enable the correct diameter of hose to be attached to the UVC, so that they are working at their most efficient.

- **Extendable** - A tandem conversion kit is available with which two UVCs can be combined enabling the largest ponds to be treated or to enlarge the system if the size of a pond is increased.

## Easy to clean and maintain

- **Bayonet fitting of electrical housing** - Easy access for cleaning the quartz tube and main body.

- **Dome ended quartz tube** - Cleaning and sealing is simple with only one open end.

- **Detachable mounting bracket** - The UVC can be easily removed from the mounting bracket to aid servicing and maintenance.

These highly durable units come with a 2 year guarantee (excluding the lamp).

## Vorton UVC Performance Data

Model	Wattage	Max Litres (Max Gallons)	LPH (GPH)	Quartz Tube Length
2200	5w	2200LTR (500GALS)	1100 LPH (250GPH)	20 - 40 mm
4500	9w	4500LTR (1000GALS)	2200 LPH (500GPH)	20 - 40 mm
9000	11w	9000LTR (2000GALS)	4500 LPH (1000GPH)	20 - 40 mm
14000	11w	14000LTR (3000GALS)	7000 LPH (1500GPH)	20 - 40 mm
18000	2 x 9w	18000LTR (4000GALS)	9000 LPH (2000GPH)	20 - 40 mm
27000	2 x 11w	27000LTR (6000GALS)	13500 LPH (3000GPH)	20 - 40 mm

## Clearwater Guarantee

When a Hozelock Cyprio "Vorton" UVC is used with a correctly sized Hozelock Cyprio biological filter, the system is covered by our Clearwater Guarantee.

## Clarification vs Sterilisation

The Hozelock Cyprio UVCs are not sterilisers.

The problem with sterilising pond water is that the fish can lose their natural immunity to disease. If a fish is moved, or if a new diseased fish is introduced, the effect on the fish can be disastrous. Hozelock Cyprio UVCs are water clarifiers. Their job is to clear the water without potential side effects to animal life.

## Accessories and spares

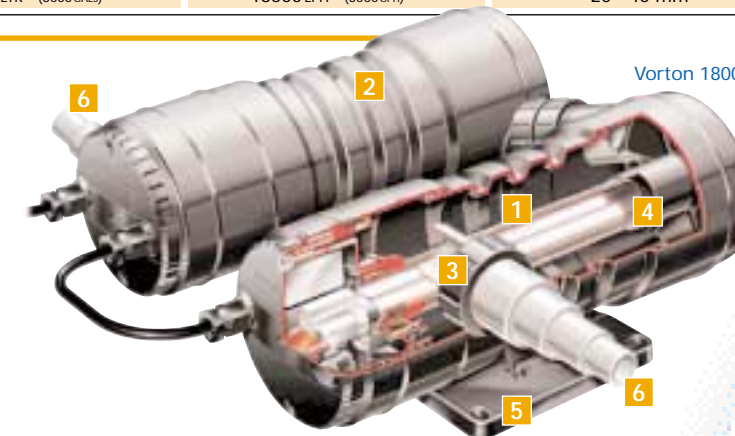
The UVC lamp should be replaced at the beginning of each season to maintain rated UV light output. 'O' rings, quartz sleeves and all other spare parts are available.

## Safety

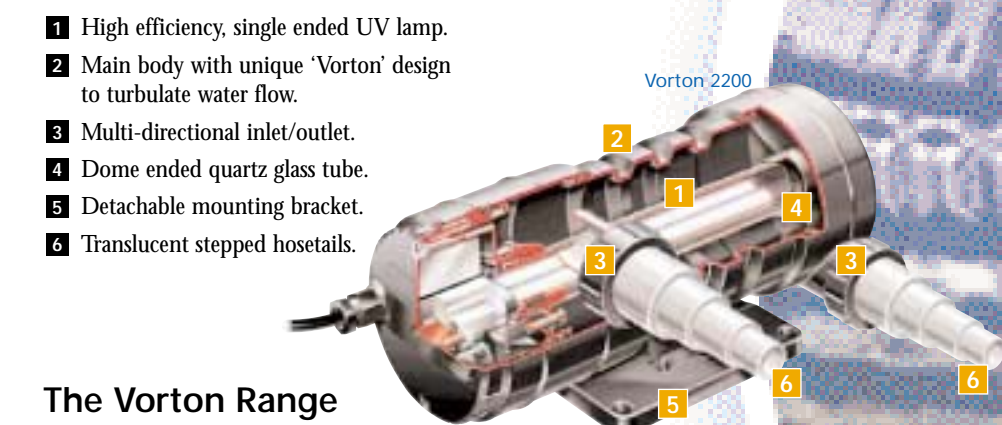
The whole UVC unit has an IP65 waterproof rating, and is designed for outside use.

Translucent hosetails mean that the lamp can be checked without dismantling the unit. The UVC is easily dismantled and even the quartz sleeve can be safely removed as a result of its simple bayonet fitting.

Part Number	Description	Product Bar Code	Pack Qty
1550	Vorton UVC 2200	50 10646 03418 0	2
1551	Vorton UVC 4500	50 10646 03419 7	2
1552	Vorton UVC 9000	50 10646 03421 0	2
1553	Vorton UVC 14000	50 10646 03420 3	2
1554	Vorton UVC 18000	50 10646 03422 7	2
1555	Vorton UVC 27000	50 10646 03423 4	2
1519	Lamp 5w PLS TUV	87 11500 64248 6	10
1520	Lamp 9w PLS TUV	87 11500 61824 5	10
1521	Lamp 11w PLS TUV	87 11500 62489 5	10
1523	Quartz Tube 2200/4500 (x2 for 18000)	50 10646 03436 4	1
1524	Quartz Tube 9000/14000 (x2 for 27000)	50 10646 03437 1	1
1522	UVC Annual Service Kit	50 10646 03438 8	1
1530	Quartz Tube 4500 (Pre 2001)	50 10646 03039 7	1
1531	Quartz Tube 9000 (Pre 2001)	50 10646 03040 3	1
1532	Quartz Tube 14000 (Pre 2001)	50 10646 03041 0	1
1533	Quartz Tube 18000 (Pre 2001)	50 10646 03042 7	1
1534	Quartz Tube 27000 (Pre 2001)	50 10646 03043 4	1
1537	Hosetails UVC Spare Set	50 10646 03049 6	1



Vorton 18000



Vorton 2200

- 1 High efficiency, single ended UV lamp.
- 2 Main body with unique 'Vorton' design to turbulate water flow.
- 3 Multi-directional inlet/outlet.
- 4 Dome ended quartz glass tube.
- 5 Detachable mounting bracket.
- 6 Translucent stepped hosetails.

## The Vorton Range

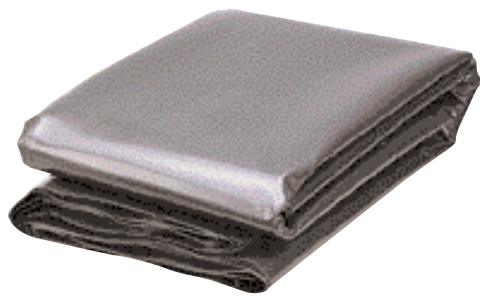
- Vorton 2200** - treats ponds of up to 2200 litres (500 gals) capacity
- Vorton 4500** - treats ponds of up to 4500 litres (1000 gals) capacity
- Vorton 9000** - treats ponds of up to 9000 litres (2000 gals) capacity
- Vorton 14000** - treats ponds of up to 14000 litres (3000 gals) capacity
- Vorton 18000** - treats ponds of up to 18000 litres (4000 gals) capacity
- Vorton 27000** - treats ponds of up to 27000 litres (6000 gals) capacity

P e r f e c t P o n d s M a d e S i m p l e





## pond liners



### Pond Liner Rolls

Lifetime guarantee. Made from 0.5mm thick PVC. Highly resistant to UV light, heat and cold. Available in 4 widths - 2m, 4m, 6m, and 8m. A self contained merchandising stand is available, suitable for both indoor and outdoor display.



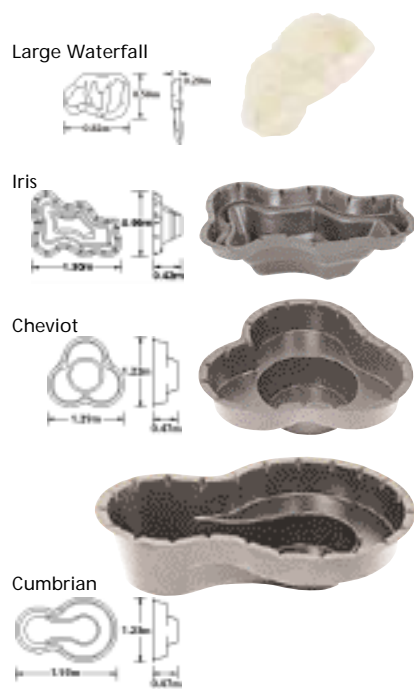
### Aqualin 15 Pre-packed Liners

This range of pre-packed liners is also available, to aid compact merchandising and customer self selection. These liners come with a 15 year guarantee and full installation instructions. They range from 2.5m x 2m (8'2" x 6'6") up to 6m x 4.5m (19'7" x 14'9").

### Pond liner repair kit

A pond liner repair kit, suitable for use with synthetic plastic liners completes the range.

## pre-formed ponds



20 year guarantee due to use of high quality HDPE. Resistant to UV light, frost, stones and roots.

Our range of 3 pre-formed ponds will meet the needs of nearly all first time pond gardeners.

### Iris - 3945

157 litres (35 gallons)

A small pond with planting margins

### Cheviot - 3942

300 litres (65 gallons)

A symmetrical clover leaf

### Cumbrian - 3944

480 litres (105 gallons)

A naturally curved, larger pond

All our ponds are deep enough to accommodate submersible pumps.

### Waterfall - 3949

Made from high quality HDPE, they have a ten year guarantee.

Part Number	Description	Product Bar Code	Pack Qty
3432	Roll Liner - 25m x 2m	50 10646 93413 8	1
3434	Roll Liner - 25m x 4m	50 10646 93415 2	1
3436	Roll Liner - 25m x 6m	50 10646 93417 6	1
3438	Roll Liner - 25m x 8m	50 10646 93419 0	1
3460	Garden Pond Liner - 2.5m x 2m	50 10646 01832 6	1
3462	Garden Pond Liner - 4m x 3m	50 10646 01834 0	1
3465	Garden Pond Liner - 6m x 4.5m	50 10646 01837 1	1
3916	Pond Liner Repair Kit	50 10646 01445 8	5
3942	Cheviot - Pre-formed Pool	50 10646 01251 5	1
3944	Cumbrian - Pre-formed Pool	50 10646 01253 9	1
3945	Iris - Pre-formed Pool	50 10646 01254 6	1
3949	Waterfall	50 10646 01257 7	1

## filter selection chart

	Max Litres	Max Fish Galls	Max Fish		Recommended Filter*	Recommended UVC**	Recommended Pump	Recommended Hose***				
			CM	Inches								
Compact Filtration	In Pond				2000	440	72	2' 04"	EasyClear™	-	-	-
	Pressurised Filtration	1100	250	60	2' 01"	Bioforce 1100	-	Titan 2000****	25mm (1")			
		1100	250	60	2' 01"	Bioforce 1100uvc	Included	Titan 2000****	25mm (1")			
		2200	500	120	4' 02"	Bioforce 2200	-	Titan 2000	25mm (1")			
		2200	500	120	4' 02"	Bioforce 2200uvc	Included	Titan 2000	25mm (1")			
		4500	1000	240	8' 04"	Bioforce 4500	-	Titan 3000	25mm (1")			
		4500	1000	240	8' 04"	Bioforce 4500uvc	Included	Titan 3000	25mm (1")			
		9000	2000	480	16' 08"	Bioforce 9000	-	Titan 5500	40mm (1½")			
		9000	2000	480	16' 08"	Bioforce 9000uvc	Included	Titan 5500	40mm (1½")			
	Top Down Flow	2200	500	79	2' 08"	Ecopower 2200	Included	Titan 2000	25mm (1")			
		4500	1000	157	5' 05"	Ecopower 4500	Included	Titan 3000	25mm (1")			
		9000	2000	322	10' 10"	Ecopower 9000	Included	Titan 3000	40mm (1½")			
	Bottom Up Flow	2200	500	107	3' 06"	Ecomax 2200	Included	Titan 2000	25mm (1")			
		4500	1000	212	6' 10"	Ecomax 4500	Included	Titan 3000	25mm (1")			
		9000	2000	435	14' 03"	Ecomax 9000	Included	Titan 5500	40mm (1½")			
Conventional Filtration	Above Ground	2200	500	79	2' 08"	Ecocel 2200	Vorton 2200	Titan 2000	25mm (1")			
		4500	1000	157	5' 05"	Ecocel 4500	Vorton 4500	Titan 3000	25mm (1")			
		6500	1500	358	12' 06"	Green Machine 6500	Vorton 9000	Titan 5500****	25mm (1")			
		9000	2000	322	10' 10"	Ecocel 9000	Vorton 9000	Titan 5500	40mm (1½")			
		11500	2500	633	20' 10"	Green Machine 11500	Vorton 14000	Titan 8000	40mm (1½")			
		18000	4000	990	33' 04"	Green Machine 18000	Vorton 18000	Titan 12000	40mm (1½")			
		27000	6000	1485	50' 00"	Green Machine 27000	Vorton 27000	PrimaXL 15000	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.

\*\*\*\* An in-line flow adjuster may be required.

## conventional filter spares & accessories

Part Number	Description	Product Bar Code	Pack Qty
1776	Biofloc 2200 Foam Set	50 10646 02969 8	1
1777	Biofloc 4500 Foam Set	50 10646 02977 3	1
1778	Biofloc 9000 Foam Set	50 10646 02976 6	1
1779	Biozorb 2200 Foam Set	50 10646 02975 9	1
1780	Biozorb 4500 Foam Set	50 10646 02974 2	1
1781	Biozorb 9000 Foam Set	50 10646 02970 4	1
1782	Biozorb 14000 Foam Set	50 10646 02971 1	1
1783	Biozorb 23000 Foam Set	50 10646 02972 8	1
1784	Biozorb 32000 Foam Set	50 10646 02973 5	1
1785	Biocartridges - Green Machine 6500	50 10646 02993 3	1
1786	Biocartridges - Green Machine 11500	50 10646 02996 4	1
1787	Biocartridges - Pro Filter Models	50 10646 03000 7	1
1788	Biocartridges - Green Machine 18000	50 10646 02999 5	1
1789	Biocartridges - Green Machine 27000	50 10646 04004 4	1
1790	Green Machine 6500 Brushes - 4" diameter (Green)	50 10646 03012 0	1
1791	Green Machine 11500 Brushes - 4" diameter (Pre 98 Green)	50 10646 03013 7	1
1792	Green Machine 18000 - GGM 16000 Brush (Pre 98 Green)	50 10646 03014 4	1
1794	Green Machine 11500 Brushes - 6" diameter x 10" (Green)	50 10646 03016 8	1
1795	Green Machine 18000/27000 Brush (Green)	50 10646 03017 5	1
1798	Green Machine 27000-GGM 23000 Brush (Pre 98 Red)	50 10646 03020 5	1
1799	Green Machine 27000 Brushes - 6" diameter x 12" (Green)	50 10646 04005 1	1
1800	Cyprapak Media - 1m³	50 10646 02853 0	1
1801	Cyprapak Media - 200 litres	50 10646 02852 3	1
1770	Budget 2200 Foam Set unpunched	50 10646 02978 0	1
1771	Budget 4500 Foam Set unpunched	50 10646 02979 7	1
1772	Budget 9000 Foam Set unpunched	50 10646 02980 3	1







# aqua-glow™

Proven in-pond lighting system

Low voltage (24v) pond lights that can be used in a variety of ways



Part Number	Description	Product Bar Code	Pack Qty
3560	Aqua-glow Pond Light 3 Lamp Starter Set	50 10646 01096 2	2
3565	Aqua-glow Single Pond Light	50 10646 01095 5	2
3510	Pond Light Lens - Clear	50 10646 01105 1	5
3511	Pond Light Lens - Red	50 10646 01106 8	5
3512	Pond Light Lens - Green	50 10646 01107 5	5
3513	Pond Light Lens - Blue	50 10646 01108 2	5
3514	Pond Light Lens - Amber	50 10646 01109 1	5
3590	Spare Bulbs	50 10646 00935 5	10
3595	Low Voltage Cable - 7.5m (25ft)	50 10646 00936 2	5
3592	Low Voltage Cable - 15m (50ft)	50 10646 00937 9	5

Hozelock Cyprio in-pond lights can be placed at the bottom of the pond, floating on the water surface, or fixed on top of the pump

So lighting effects can be obtained wherever they are needed

### Safe

Because the system is low voltage, it does not represent a danger in the garden or pond.

### Durable

The Hozelock Cyprio in-pond lighting system is produced to a high quality design, based upon our experience of outdoor electrical products. All components carry a 2 year guarantee. (Except for lamps).

### Simple to Install

A transformer is included in the three light set.

As the system works off a 24v low voltage supply, installation is simple and does not require a qualified electrician.

The low voltage cable can be either camouflaged or buried. Cable lengths of up to 50 metres can be accommodated.

Five different lens colours are available as accessories so that a variety of effects can be achieved.

A full range of accessories, such as extra cable and connectors is available, to enable the system to be added to. The in-pond lighting system is fully compatible with the Hozelock Decorative Garden Lighting range. This further enhances the flexibility and economy of the system.

### Added flexibility of single light

Up to three extra lights can be run as an addition from the transformer for the 3-light set.

This enables extra lighting to be obtained simply and cheaply.



# pebble fountain water feature

Suits any garden or patio and easy to install

Kit includes Cascade 700 fountain pump



Integral hinged lid makes the water feature easy to install and maintain. Only one lid segment needs to be opened to access pump once installed, which avoids having to remove pebbles from the entire lid. Lid can bear a load of 20kg.

Three recessed planting pockets are moulded into the outer rim. These pockets can be covered with lids provided, if they are not required.

With a capacity of 21 litres, the water feature needs less frequent topping up, even in hot weather.

A sludge trap at the base of the reservoir protects the pump.

A merchandiser is available for easy in-store stacking of the pebble fountain.



### Choice of fountain

The Cascade 700 pump comes with a choice of three fountain patterns



Part Number	Description	Product Bar Code	Pack Qty
3583	Pebble Fountain Water Feature - inc. pump	50 10646 03613 9	13



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P e r f e c t P o n d s M a d e S i m p l e